BRAC Program Management Office East
Philadelphia, Pennsylvania

Final
Technical Memorandum for March 2024 Surface Water Sampling for PFAS

Former Naval Air Station Joint Reserve Base Willow Grove
Horsham Township, Pennsylvania

September 27, 2024

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Former Naval Air Station Joint Reserve Base Willow Grove
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Prepared for:
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TETRA TECH

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Project Number 08005-WE04

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Four Penn Center
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Reference: Contract No. N6247016D9008
Contract Task Order No. WE04

Subject: Final Technical Memorandum for March 2024 Surface Water Sampling for Per- and Polyfluoroalkyl Substances
Former Naval Air Station Joint Reserve Base Willow Grove
Horsham Township, Pennsylvania

Dear Ms. Kloss and Mr. Wade:

On behalf of the Navy, Tetra Tech is pleased to submit this Technical Memorandum to present the results of surface water sampling for per- and polyfluoroalkyl substances (PFAS) analyses conducted in March 2024 for the former Naval Air Station Joint Reserve Base (NASJRB) Willow Grove located in Horsham Township, Montgomery County, Pennsylvania. Tetra Tech prepared this Technical Memorandum on behalf of Naval Facilities Engineering Systems Command Base Realignment and Closure (BRAC) Program Management Office (PMO) East as part of Contract Task Order (CTO) WE04 under the Comprehensive Long-Term Environmental Action Navy (CLEAN) contract number N6247016D9008. This work was performed by Tetra Tech in accordance with the March 2020 *Final Sampling and Analysis Plan (SAP) for Per- and Polyfluoroalkyl Substances Surface Water and Sediment Sampling, Former NASJRB Willow Grove,* (referred to as Final SAP) and subsequent Field Task Modification Requests (FTMRs), as well as the letter report dated November 30, 2023, *Recommended Changes to the Surface Water PFAS Sampling Program, Former NASJRB Willow Grove, Horsham Township, Pennsylvania*.

Between March 18 and March 20, 2024, the Navy performed quarterly surface water sampling at 31 locations (Table 1). As noted in Table 1, surface water sampling was conducted in five sampling extents close to former NASJRB Willow Grove. The sampling extents, as well as the Neshaminy and Pennypack watershed boundaries, are depicted in Figure 1. Extent A includes Park Creek, Little Neshaminy Creek, and Outfall #9 reaches on the northwestern part of former NASJRB Willow Grove (Figure 2). Extent B includes the confluence of Little Neshaminy Creek with an unnamed tributary near Paul Valley Drive northeast of former NASJRB Willow Grove (Figure 3). West of former NASJRB Willow Grove, Extent C includes a section of Park Creek and the outflow from Outfall #5 (Figure 4). Extent D includes Outfalls #5, #6A, and #14 located in the central area of former NASJRB Willow Grove (Figure 5). Extent E encompasses Pennypack Creek and Outfalls #2 and #3, which flow into Pennypack Creek (Figure 6). Reference and regional sample locations are upstream of influences from the former NASJRB Willow Grove and are collected to document PFAS concentrations upstream and/or upgradient from base influence (Figure 7).

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Due to dry conditions and lack of flow, surface water samples could not be collected at two locations: SW-51 and SW-53. These locations were previously identified as intermittent with observable flow following precipitation events. SW-51 is located in the Northern Ponding Area near Outfall #8, while SW-53 is located along an unnamed tributary to Pennypack Creek (Figures 2 and 6, respectively).

Table 1: Surface Water Samples Collected in March 2024

SW-01 (Extent D)	SW-33 (Extent B)	SW-49 (Extent E)
SW-03 (Extent D)	SW-34A (Extent B)	SW-51 (Extent A)
SW-04 (Extent C)	SW-36*	SW-52 (Extent D)
SW-05 (Extent A)	SW-36A*	SW-53 (Extent E)
SW-10 (Extent A)	SW-39A (Extent B)	SW-54 (Extent E)
SW-14 (Extent A)	SW-41 (Extent B)	SW-56*
SW-17 (Extent A)	SW-42 (Extent B)	SW-63 (Extent A)
SW-19 (Extent A)	SW-45 (Extent E)	SW-64
SW-20 (Extent A)	SW-46 (Extent E)	NCREF-4**
SW-28 (Extent A)	SW-47 (Extent E)	
SW-30 (Extent A)	SW-48 (Extent E)	

Notes: SW – Surface water sampling location; * Regional sampling location; ** Reference sampling location

The surface water sampling results of perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA), and perfluorohexanesulfonic acid (PFHxS) are provided on Figures 2 through 6 and provide data representative of areas that PFAS could potentially impact. Figure 7 shows a wider view of the Pennypack and Neshaminy watersheds, including regional and reference locations and associated PFOS, PFOA, and PFHxS results farther away from former NASJRB Willow Grove. Surface water analytical results and streamflow discharge results for the March 2024 sampling event are listed in Table 2.

Surface water samples were collected per the Final SAP and associated FTMRs, placed in laboratory-provided containers, stored on ice, and transported under chain-of-custody to the analytical laboratory. Surface water samples were analyzed for 40 PFAS analytes via United States Environmental Protection Agency (EPA) Draft Method 1633 compliant with United States Department of Defense (DoD) Quality Systems Manual (QSM) 5.4 Table B-24 at Battelle Laboratory located in Norwell, Massachusetts. Field water quality parameters (including temperature, dissolved oxygen [DO], pH, specific conductance, oxidation reduction potential [ORP], and turbidity) were also measured at each location using a Horiba U-52 and a Hanna Instruments HI 98703 Portable Turbidity Meter. These measurements are presented in Table 2. Surface water sampling log sheets are included as Appendix A.

Streamflow measurements were collected manually by the United States Geological Survey (USGS) at select locations to assist them with evaluating the mass loading at select surface water segments within the study area (Extents A through E). These streamflow measurements are included as Appendix B and are also reported in Table 2. The streamflow during sample collection was consistent with baseflow conditions per the SAP as determined prior to sampling by the USGS. Appendix C provides the data validation reports for the surface water samples and Appendix D provides the historical surface water analytical data for reference.

This Technical Memorandum focuses on the PFAS with established surface water human health risk-based project action levels (PALs) at the time of sampling, per DoD guidance, as shown in Table 3. Human health PALs were calculated using the EPA November 2023 regional screening level (RSL) calculator and can be found in Appendix E. PFAS concentrations were also compared to the ecological PALs in Table 3 below:

Table 3: Surface Water PALs

PFAS	Surface Water Human Health PAL (ng/L)	Ecological PAL – Aquatic Organism (ng/L)	Ecological PAL – Wildlife (ng/L)
PFOA	210	307,000	1,580,000
PFOS	140	22,600	117
PFBS	21,000	400,000	5,710,000
PFHxA	31,000	28,800	2,210,000
PFHxS	1,200	65,300	5,500
PFNA	170	16,400	2,080
HFPO-DA	5.4	NC	NC
PFBA	34,000	64,600	8,370,000
PFDA	NC	2,940	660
PFDoA	NC	72,000	NC
PFHpA	NC	870,000	NC
PFUnA	NC	49,000	NC
PFPeA	NC	140,000	NC

Notes:
NC – no criteria established
ng/L – nanograms per liter
HFPO-DA – hexafluoropropylene oxide dimer acid
PAL – project action level
PFAS - per- and polyfluoroalkyl substances
PFBA - perfluorobutanoic acid
PFBS - perfluorobutanesulfonic acid
PFDA – perfluorodecanoic acid
PFDoA – perfluorododecanoic acid
PFHpA – perfluoroheptanoic acid
PFHxA - perfluorohexanoic acid
PFHxS - perfluorohexanesulfonic acid
PFNA - perfluorononanoic acid
PFOA - perfluorooctanoic acid
PFOS - perfluorooctanesulfonic acid
PFUnA – perfluoroundecanoic acid
PFPeA – perfluoropentanoic acid

The EPA has not yet established consensus-based ecological screening values for PFAS in surface water, but ecological studies have been published after the Final SAP was issued. A literature review was conducted to identify ecological screening values current at the time of this report's preparation as shown in Table 3. Direct contact and dietary exposure values from the Navy Emerging Chemicals Workgroup Issue Paper entitled *Recommended Ecological Screening Values for Per- and Polyfluoroalkyl Substances*, published in 2024, and Argonne National Laboratory's *Derivation of PFAS Ecological Screening Values,* published in 2021, were selected as screening levels for this report. These values had been developed to support screening level ecological risk assessments (SLERA) for PFAS in surface water at United States Navy, Air Force, and Army installations. Argonne National Labs developed these ecological screening values in coordination with an interagency team of subject-matter experts from the DoD services, including the DoD Tri-Services Environmental Risk Assessment Work Group. Surface water wildlife values are conservative screening values not representative of the actual site-specific risk estimates.

As noted above, the data presented in this Technical Memorandum were evaluated using PALs available at the time of sampling. The data will be further evaluated as part of the annual technical memorandum for surface water and sediment and the Phase II remedial investigation (RI) report utilizing the most current toxicity values and RSLs approved for use by DoD's Office of Secretary of Defense (OSD) at that time. PFAS analytical results for the surface water samples are shown in Table 2 and on Figures 2 through 7.

The results of the surface water sample analysis are briefly summarized below:

- PFOS, PFOA, and PFHxS detections were reported at all surface water sampling locations, including one reference and three regional locations.
- PFOS detections above the surface water human health PAL (140 ng/L) were reported at 10 surface water sampling locations: SW-01 (626 ng/L), SW-03 (551 ng/L), SW-04 (149 ng/L, 157 ng/L), SW-28 (360 ng/L), SW-41 (258 ng/L), SW-42 (260 ng/L), SW-45 (528 ng/L), SW-46 (492 ng/L), SW-49 (1,860 ng/L), and SW-54 (2,090 ng/L). No PFOS detections above the ecological aquatic organism PAL (22,600 ng/L) were reported; however, PFOS detections above the ecological wildlife PAL (117 ng/L) were reported at 11 surface water sampling locations.
- PFOA detections above the surface water human health PAL (210 ng/L) were reported at two surface water sampling locations: SW-49 (327 ng/L) and SW-54 (319 ng/L). No PFOA detections above the ecological aquatic organism PAL (307,000 ng/L) or the ecological wildlife PAL (1,580,000 ng/L) were reported.
- PFHxS detections above the surface water human health PAL (1,200 ng/L) were reported at one surface water sampling location: SW-54 (1,240 ng/L). No PFHxS detections above the ecological aquatic organism PAL (65,300 ng/L) or the ecological wildlife PAL (5,500 ng/L) were reported.
- No reported detections of perfluorobutanoic acid (PFBA), perfluorobutanesulfonic acid (PFBS), perfluorohexanoic acid (PFHxA), perfluorononanoic acid (PFNA), PFDA in surface water were above the respective human health PALs.
- No reported detections of perfluorodecanoic acid (PFDA), perfluorododecanoic acid (PFDoA), perfluoroheptanoic acid (PFHpA), or perfluoropentanoic acid (PFPeA) were above either the respective human health PALs, ecological aquatic organism PALs, or ecological wildlife PALs. Hexafluoropropylene oxide dimer acid (HFPO-DA), perfluorododecanoic acid (PFDoA), and perfluoroundecanoic acid (PFUnA) were not detected in surface water.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Stephen J. Mitchell, PG
Senior Project Manager

SJM/nfs

Enclosure

c: Brian Helland (Navy BRAC PMO)
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TABLES

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Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-01 WGNA-SW-01-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-03 WGNA-SW-03-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-04 WGNA-SW-04-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-04 WGNA-SW-04-20240320-D 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-05 WGNA-SW-05-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-10 WGNA-SW-10-20240320 3/20/2024 Base Flow Neshaminy 24-0213
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.57 U	1.36 U	1.34 U	1.42 U	1.43 U	1.38 U
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	35.5	12.8	14.7	14.5	12.8	4.84
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	26	13	8.19	9.09	7.99	4 J
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	239	159	71.7	76.4	58.7	2.53
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	62.1	33.3	18.6	20	17	4.49
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	6.69	10.7	3.72	3.73	2.76	1.82
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	**626**	**551**	**149**	**157**	109	6.53
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	44	50.5	25.3	27	23.3	8.18
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	1.63 J	0.96 J	0.35 J	0.422 U	0.34 J	0.346 J
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.632 U	0.545 U	0.54 U	0.57 U	0.576 U	0.556 U
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	20.5	24.7	8.94	9.37	8.48	2.87
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.426 U	0.368 U	0.364 U	0.384 U	0.388 U	0.375 U
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.418 U	0.361 U	0.357 U	0.377 U	0.38 U	0.368 U
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.38 U	1.19 U	1.18 U	1.24 U	1.25 U	1.21 U
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.34 U	0.293 U	0.291 U	0.307 U	0.31 U	0.299 U
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	9.46	7.18	2.57	2.61	2.23	0.377 U
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.523 U	0.451 U	0.447 U	0.472 U	0.476 U	0.46 U
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	8.74 I	0.341 U	0.338 U	0.356 U	0.359 U	0.348 U
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	37.6	15	9.25	10.4	8.27	0.497 J
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	46.8	26.8	14.5	14.9	12.7	3.91
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.901 U	0.777 U	0.77 U	0.813 U	0.82 U	0.793 U
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.763 U	0.658 U	0.652 U	0.688 U	0.694 U	0.671 U
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.46 U	1.26 U	1.25 U	1.31 U	1.33 U	1.28 U
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.77 U	2.39 U	2.37 U	2.5 U	2.52 U	2.44 U
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	48.8	14.1	5.87	6.53	3.59 J	2.74 U
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	4.93 J	5.3 J	1.64 U	1.73 U	1.75 U	1.69 U
9CL-PF3ONS	NC	NC	NC	1.47 U	1.27 U	1.25 U	1.32 U	1.34 U	1.29 U
11CL-PF3OUDS	NC	NC	NC	2.29 U	1.97 U	1.96 U	2.06 U	2.08 U	2.01 U
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	3.05 U	2.63 U	2.6 U	2.75 U	2.77 U	2.68 U
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.47 U	2.99 U	2.96 U	3.13 U	3.15 U	3.05 U
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.51 U	3.03 U	3 U	3.16 U	3.19 U	3.09 U
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	9.37 U	8.08 U	8.01 U	8.45 U	8.53 U	8.24 U
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	11 U	9.46 U	9.37 U	9.89 U	9.98 U	9.65 U
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.21 U	0.181 U	0.179 U	0.189 U	0.191 U	0.184 U
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.2 U	1.03 U	1.03 U	1.08 U	1.09 U	1.06 U
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.6 U	1.38 U	1.36 U	1.44 U	1.45 U	1.4 U
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.445 U	0.384 U	0.381 U	0.402 U	0.405 U	0.392 U
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.32 U	1.14 U	1.13 U	1.19 U	1.2 U	1.16 U
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.26 U	1.09 U	1.08 U	1.14 U	1.15 U	1.11 U
PERFLUORODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.378 U	0.326 U	0.323 U	0.341 U	0.344 U	0.333 U
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	8.74	10.44	8.32	8.32	7.88	7.78
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	0.07	0.24	--	--	2.91	8.51
VISUAL (COLOR)	NC	NC	NC	0	0	0	0	0	0
SAMPLE DEPTH (INCHES)	NC	NC	NC	3	3	9	9	3	4
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	6.88	9.53	10.41	10.41	10.86	12.91
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.14	0.135	0.476	0.476	0.495	0.453
ORP (mV)	NC	NC	NC	112	237	246	246	223	219
TURBIDITY (NTU)	NC	NC	NC	6.29	7.08	5.09	5.09	2.9	3.12
PH (S.U.)	NC	NC	NC	8	8.35	8.12	8.12	8.12	8.15

Notes:
Result is above PAL.
Result is bolded if above Human Health PAL (1).
Result is italicized if above Ecological Aquatic Organism PAL (2).
Result is underlined if above Ecological Wildlife PAL (2).
See end notes

Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-14 WGNA-SW-14-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-17 WGNA-SW-17-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-19 WGNA-SW-19-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-19 WGNA-SW-19-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-20 WGNA-SW-20-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-28 WGNA-SW-28-20240320 3/20/2024 Base Flow Neshaminy 24-0213
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.42 U	1.53 U	1.41 U	1.5 U	1.41 U	1.46 U
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	8.63	9.25	9.96	10.5	10.7	19.9
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	6.5	7.12	9.4	9.35	9.66	41.5
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	37.3	43.7	54	50.9	53.1	151
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	11.9	13.4	18	16	17.9	62.5
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	2.44	2.36	2.52	2.47	2.89	3.18
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	54.8	62.1	92.4	90	91.8	**360**
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	14.7	15	18.1	18.4	19.7	41.2
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	0.422 U	0.455 U	0.497 J	0.447 U	0.421 U	0.434 U
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.57 U	0.614 U	0.569 U	0.603 U	0.568 U	0.586 U
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	5.51	6.48	6.91	7.24	7.26	17.4
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.384 U	0.414 U	0.384 U	0.407 U	0.383 U	0.395 U
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.377 U	0.406 U	0.376 U	0.399 U	0.375 U	0.387 U
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.24 U	1.34 U	1.24 U	1.31 U	1.24 U	1.27 U
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.307 U	0.331 U	0.306 U	0.325 U	0.306 U	0.315 U
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	1.03 J	1.18 J	1.82	1.8	1.72	6.65
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.472 U	0.508 U	0.471 U	0.499 U	0.47 U	0.484 U
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	0.356 U	0.384 U	0.355 U	0.377 U	0.355 U	0.366 U
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	5.21	5.79	7.15	6.73	6.97	22.7
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	9.46	11.7	16.5	16.2	17.7	71
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.813 U	0.876 U	0.811 U	0.86 U	0.809 U	0.835 U
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.688 U	0.741 U	0.686 U	0.727 U	0.685 U	0.706 U
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.31 U	1.42 U	1.31 U	1.39 U	1.31 U	1.35 U
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.5 U	2.69 U	2.5 U	2.65 U	2.49 U	2.57 U
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	1.7 J	2.43 J	9.15	9.13	9.08	94.9
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	1.73 U	1.87 U	1.73 U	1.84 U	1.73 U	1.78 U
9CL-PF3ONS	NC	NC	NC	1.32 U	1.43 U	1.32 U	1.4 U	1.32 U	1.36 U
11CL-PF3OUDS	NC	NC	NC	2.06 U	2.22 U	2.06 U	2.18 U	2.06 U	2.12 U
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	2.75 U	2.96 U	2.74 U	2.91 U	2.74 U	2.82 U
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.13 U	3.37 U	3.12 U	3.31 U	3.11 U	3.21 U
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.16 U	3.41 U	3.16 U	3.35 U	3.15 U	3.25 U
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	8.45 U	9.1 U	8.43 U	8.94 U	8.42 U	8.68 U
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	9.89 U	10.7 U	9.87 U	10.5 U	9.85 U	10.2 U
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.189 U	0.204 U	0.189 U	0.2 U	0.188 U	0.194 U
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.08 U	1.17 U	1.08 U	1.14 U	1.08 U	1.11 U
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.44 U	1.55 U	1.44 U	1.52 U	1.43 U	1.48 U
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.402 U	0.433 U	0.401 U	0.425 U	0.4 U	0.412 U
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.19 U	1.28 U	1.19 U	1.26 U	1.18 U	1.22 U
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.14 U	1.22 U	1.13 U	1.2 U	1.13 U	1.17 U
PERFLURODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.341 U	0.367 U	0.34 U	0.361 U	0.34 U	0.35 U
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	7.53	7.95	9.56	7.09	9.35	7.39
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	11.2	12.4	14.5	--	9.83	0.74
VISUAL (COLOR)	NC	NC	NC	0	0	0	0	0	0
SAMPLE DEPTH (INCHES)	NC	NC	NC	9	6	7	7	6	3
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	11.45	11.75	16.66	9.49	13.96	10.58
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.454	0.492	0.458	0.506	0.454	0.317
ORP (mV)	NC	NC	NC	288	302	256	300	255	286
TURBIDITY (NTU)	NC	NC	NC	4.94	3.26	4.19	4.16	4.18	4.1
PH (S.U.)	NC	NC	NC	8.09	8.16	9.1	8.49	8.82	8.22

Notes:
Result is above PAL.
Result is bolded if above Human Health PAL (1).
Result is italicized if above Ecological Aquatic Organism PAL (2).
Result is underlined if above Ecological Wildlife PAL (2).
See end notes

Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-30 WGNA-SW-30-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-33 WGNA-SW-33-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-34A WGNA-SW-34A-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-36 WGNA-SW-36-20240319 3/19/2024 Base Flow 24-0207	WGNA-SW/SD-36A WGNA-SW-36A-20240319 3/19/2024 Base Flow Neshaminy 24-0220	WGNA-SW/SD-39A WGNA-SW-39A-20240319 3/19/2024 Base Flow Neshaminy 24-0207
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.46 U	1.43 U	1.48 U	1.41 U	1.52 U	1.39 U
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	5.84	8.95	11.2	9.9	8.46	8.37
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	4.12 J	7.61	7.97	7.23	6.55	9.59
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	2.39	39.3	45.9	35.3	27.4	71.2
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	7.87	16.5	18	14.2	13.7	18.9
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	1.64	2.14	2.8	1.98	2.31	4.92
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	6.74	70.4	91.8	56.3	74.6	134
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	8.01	16.7	23.8	18.3	16.9	73.1
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	0.436 U	0.427 U	0.498 J	0.419 U	0.803 J	1.37 J
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.589 U	0.577 U	0.595 U	0.566 U	0.611 U	0.559 U
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	2.52	5.78	6.44	5.75	4.92	10.4
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.397 U	0.389 U	0.401 U	0.382 U	0.412 U	0.377 U
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.389 U	0.381 U	0.393 U	0.374 U	0.404 U	0.37 U
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.28 U	1.25 U	1.29 U	1.23 U	1.33 U	1.22 U
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.317 U	0.31 U	0.32 U	0.305 U	0.329 U	0.301 U
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	0.399 U	1.44 J	1.92	1.44 J	1.27 J	1.71
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.487 U	0.477 U	0.492 U	0.468 U	0.505 U	0.463 U
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	0.368 U	0.36 U	0.372 U	0.353 U	0.381 U	0.349 U
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	0.35 J	5.25	6.63	4.57	3.78	5.56
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	14.7	16.9	18.2	14.6	14	14.1
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.84 U	0.822 U	0.848 U	0.806 U	0.87 U	0.797 U
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.71 U	0.695 U	0.717 U	0.682 U	0.736 U	0.675 U
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.36 U	1.33 U	1.37 U	1.3 U	1.41 U	1.29 U
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.58 U	2.53 U	2.61 U	2.48 U	2.68 U	2.45 U
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	2.9 U	6.33	7.68	5.13 J	4.32 J	2.75 U
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	1.79 U	1.75 U	1.81 U	1.72 U	1.86 U	1.7 U
9CL-PF3ONS	NC	NC	NC	1.37 U	1.34 U	1.38 U	1.31 U	1.42 U	1.3 U
11CL-PF3OUDS	NC	NC	NC	2.13 U	2.09 U	2.15 U	2.05 U	2.21 U	2.03 U
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	2.84 U	2.78 U	2.87 U	2.73 U	2.94 U	2.7 U
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.23 U	3.16 U	3.26 U	3.1 U	3.35 U	3.07 U
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.27 U	3.2 U	3.3 U	3.14 U	3.39 U	3.1 U
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	8.73 U	8.54 U	8.81 U	8.38 U	9.05 U	8.29 U
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	10.2 U	10 U	10.3 U	9.81 U	10.6 U	9.7 U
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.195 U	0.191 U	0.197 U	0.188 U	0.202 U	0.186 U
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.12 U	1.09 U	1.13 U	1.07 U	1.16 U	1.06 U
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.49 U	1.46 U	1.5 U	1.43 U	1.54 U	1.41 U
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.415 U	0.406 U	0.419 U	0.398 U	0.43 U	0.394 U
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.23 U	1.2 U	1.24 U	1.18 U	1.27 U	1.17 U
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.17 U	1.15 U	1.19 U	1.13 U	1.22 U	1.12 U
PERFLUORODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.352 U	0.345 U	0.356 U	0.338 U	0.365 U	0.335 U
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	9.16	8.91	7.49	7.74	6.41	9.4
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	8.3	23.3	--	--	42.1	--
VISUAL (COLOR)	NC	NC	NC	0	0	0	0	0	0
SAMPLE DEPTH (INCHES)	NC	NC	NC	4	3	9	4	6	3
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	16.19	13	13.53	10.31	18.42	14.19
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.488	0.532	0.527	0.433	0.557	0.501
ORP (mV)	NC	NC	NC	259	289	345	338	306	294
TURBIDITY (NTU)	NC	NC	NC	3.94	4.99	2.99	4.11	3.19	4.26
PH (S.U.)	NC	NC	NC	8.62	7.97	7.92	7.68	7.63	7.93

Notes:
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Result is bolded if above Human Health PAL (1).
Result is italicized if above Ecological Aquatic Organism PAL (2).
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See end notes

Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-39A WGNA-SW-39A-20240319-D 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-41 WGNA-SW-41-20240319 3/19/2024 Base Flow 24-0207	WGNA-SW/SD-42 WGNA-SW-42-20240319 3/19/2024 Base Flow Neshaminy 24-0207	WGNA-SW/SD-45 WGNA-SW-45-20240318 3/18/2024 Base Flow Pennypack 24-0204	WGNA-SW/SD-46 WGNA-SW-46-20240318 3/18/2024 Base Flow Pennypack 24-0204	WGNA-SW/SD-47 WGNA-SW-47-20240318 3/18/2024 Base Flow Pennypack 24-0204
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.5 U	1.56 U	1.48 U	1.46 U	1.61 U	1.45 U
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	7.97	19.2	20.1	17.1	25.4	9.97
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	9.58	13.5	13.8	22.6	19.9	5.41 J
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	71.9	121	121	151	204	34.6
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	18.6	36.7	38.7	41.6	43.8	9.75
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	4.54	4.03	3.71	4.36	4.9	1.84
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	117	**258**	**260**	**528**	**492**	67
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	66.9	83.1	75.4	146	174	31.8
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	1.01 J	0.467 U	0.72 J	1.03 J	1.06 J	0.431 U
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.604 U	0.63 U	0.594 U	0.587 U	0.647 U	0.582 U
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	10.3	13.4	14.1	11.6	14.9	4.34
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.408 U	0.425 U	0.4 U	0.396 U	0.437 U	0.393 U
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.4 U	0.416 U	0.393 U	0.388 U	0.428 U	0.385 U
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.32 U	1.37 U	1.29 U	1.28 U	1.41 U	1.27 U
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.325 U	0.339 U	0.32 U	0.316 U	0.348 U	0.313 U
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	1.87	4.7	4.83	7.58	8.57	1.39 J
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.5 U	0.521 U	0.491 U	0.485 U	0.535 U	0.482 U
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	0.378 U	0.393 U	0.371 U	0.366 U	0.404 U	0.364 U
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	5.62	14.7	17.6	18.3	24.2	4.38
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	15.3	30.8	33.4	44.9	40.3	7.75
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.861 U	0.897 U	0.846 U	0.836 U	0.923 U	0.83 U
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.729 U	0.759 U	0.716 U	0.708 U	0.781 U	0.702 U
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.39 U	1.45 U	1.37 U	1.35 U	1.49 U	1.34 U
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.65 U	2.76 U	2.6 U	2.57 U	2.84 U	2.55 U
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	2.97 U	9.5	12.5	2.78 J	1.76 J	2.86 U
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	1.84 U	1.92 U	1.81 U	1.79 U	1.97 U	1.77 U
9CL-PF3ONS	NC	NC	NC	1.4 U	1.46 U	1.38 U	1.36 U	1.5 U	1.35 U
11CL-PF3OUDS	NC	NC	NC	2.19 U	2.28 U	2.15 U	2.12 U	2.34 U	2.11 U
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	2.91 U	3.03 U	2.86 U	2.83 U	3.12 U	2.8 U
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.31 U	3.45 U	3.25 U	3.22 U	3.55 U	3.19 U
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.35 U	3.49 U	3.29 U	3.26 U	3.59 U	3.23 U
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	8.96 U	9.33 U	8.8 U	8.69 U	9.59 U	8.63 U
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	10.5 U	10.9 U	10.3 U	10.2 U	11.2 U	10.1 U
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.2 U	0.209 U	0.197 U	0.195 U	0.215 U	0.193 U
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.15 U	1.19 U	1.13 U	1.11 U	1.23 U	1.1 U
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.53 U	1.59 U	1.5 U	1.48 U	1.63 U	1.47 U
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.426 U	0.444 U	0.418 U	0.413 U	0.456 U	0.41 U
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.26 U	1.31 U	1.24 U	1.22 U	1.35 U	1.21 U
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.2 U	1.26 U	1.18 U	1.17 U	1.29 U	1.16 U
PERFLUORODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.361 U	0.377 U	0.355 U	0.351 U	0.387 U	0.348 U
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	9.4	9.06	7.85	9.76	15.18	9.46
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	--	1.23	0.9	0.84	0.39	2.97
VISUAL (COLOR)	NC	NC	NC	0	0	0	0	0	0
SAMPLE DEPTH (INCHES)	NC	NC	NC	3	2.5	2	3	3	5
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	14.19	13.91	12.61	9.77	15.26	12.44
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.501	0.621	0.526	0.246	0.416	0.331
ORP (mV)	NC	NC	NC	294	314	323	336	330	318
TURBIDITY (NTU)	NC	NC	NC	4.26	3.19	3.19	2.64	2.51	4.01
PH (S.U.)	NC	NC	NC	7.93	8.13	7.85	7.85	7.55	7.59

Notes:
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Result is bolded if above Human Health PAL (1).
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Result is underlined if above Ecological Wildlife PAL (2).
See end notes

Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-48 WGNA-SW-48-20240318 3/18/2024 Base Flow Pennypack 24-0204	WGNA-SW/SD-49 WGNA-SW-49-20240318 3/18/2024 Base Flow 24-0204	WGNA-SW/SD-51 NA 03/20/24 Dry Pennypack --	WGNA-SW/SD-52 WGNA-SW-52-20240320-D 3/20/2024 Base Flow 24-0213	WGNA-SW/SD-52 WGNA-SW-52-20240320 3/20/2024 Base Flow 24-0213	WGNA-SW/SD-53 NA 03/18/24 Dry Pennypack --
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.48 U	1.45 U	--	1.38 U	1.52 U	--
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	5.47	112	--	4.35	4.18	--
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	2.71 J	33.8	--	4.51 J	4.44 J	--
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	2.06	1120	--	26.3	26.6	--
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	2.81	125	--	6.89	7.29	--
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	1.57 J	14.8	--	1.45 J	1.64	--
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	4.94	**1860**	--	33.1	32.8	--
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	7.56	**327**	--	13	13	--
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	0.442 U	1.88	--	0.412 U	0.454 U	--
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.596 U	0.583 U	--	0.556 U	0.613 U	--
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	1.77	36.1	--	3.74	3.32	--
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.402 U	0.393 U	--	0.375 U	0.413 U	--
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.394 U	0.386 U	--	0.368 U	0.405 U	--
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.3 U	1.27 U	--	1.21 U	1.33 U	--
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.321 U	0.314 U	--	0.299 U	0.33 U	--
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	0.404 U	36.5	--	0.86 J	0.961 J	--
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.493 U	0.483 U	--	0.46 U	0.507 U	--
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	0.372 U	0.364 U	--	0.348 U	0.383 U	--
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	0.333 J	151	--	3.5	3.76	--
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	2.24 J	68.7	--	5.81	5.25	--
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.85 U	0.831 U	--	0.793 U	0.874 U	--
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.719 U	0.703 U	--	0.671 U	0.739 U	--
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.37 U	1.34 U	--	1.28 U	1.41 U	--
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.61 U	2.56 U	--	2.44 U	2.69 U	--
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	2.93 U	6.91	--	2.74 U	3.01 U	--
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	1.81 U	1.78 U	--	1.69 U	1.87 U	--
9CL-PF3ONS	NC	NC	NC	1.38 U	1.35 U	--	1.29 U	1.42 U	--
11CL-PF3OUDS	NC	NC	NC	2.16 U	2.11 U	--	2.01 U	2.22 U	--
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	2.87 U	2.81 U	--	2.68 U	2.95 U	--
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.27 U	3.2 U	--	3.05 U	3.36 U	--
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.31 U	3.24 U	--	3.09 U	3.4 U	--
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	8.83 U	8.64 U	--	8.24 U	9.08 U	--
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	10.3 U	10.1 U	--	9.65 U	10.6 U	--
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.198 U	0.193 U	--	0.184 U	0.203 U	--
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.13 U	1.11 U	--	1.06 U	1.16 U	--
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.5 U	1.47 U	--	1.4 U	1.55 U	--
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.42 U	0.411 U	--	0.392 U	0.432 U	--
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.24 U	1.22 U	--	1.16 U	1.28 U	--
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.19 U	1.16 U	--	1.11 U	1.22 U	--
PERFLURODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.356 U	0.349 U	--	0.333 U	0.367 U	--
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	9.58	12.9	DRY	9.71	9.71	DRY
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	1.93	--	--	--	--	--
VISUAL (COLOR)	NC	NC	NC	0	0	--	0	0	--
SAMPLE DEPTH (INCHES)	NC	NC	NC	4	2	--	2	2	--
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	11.99	10.44	--	10.52	10.52	--
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.265	0.366	--	0.101	0.101	--
ORP (mV)	NC	NC	NC	317	320	--	243	243	--
TURBIDITY (NTU)	NC	NC	NC	3.24	4.02	--	7.26	7.26	--
PH (S.U.)	NC	NC	NC	7.45	7.99	--	8.08	8.08	--

Notes:
Result is above PAL.
Result is bolded if above Human Health PAL (1).
Result is italicized if above Ecological Aquatic Organism PAL (2).
Result is underlined if above Ecological Wildlife PAL (2).
See end notes

Table 2: Surface Water Analytical Results, March 2024
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION SAMPLE ID SAMPLE DATE CONDITIONS WATERSHED SDG	**Human Health PAL**	*Ecological PAL - aquatic organism*	Ecological PAL - wildlife	WGNA-SW/SD-54 WGNA-SW-54-20240318 3/18/2024 Base Flow 24-0204	WGNA-SW/SD-56 WGNA-SW-56-20240318-D 3/18/2024 Base Flow Neshaminy 24-0204	WGNA-SW/SD-56 WGNA-SW-56-20240318 3/18/2024 Base Flow Neshaminy 24-0204	WGNA-SW/SD-63 WGNA-SW-63-20240320 3/20/2024 Base Flow Neshaminy 24-0213	WGNA-SW/SD-64 WGNA-SW-64-20240320 3/20/2024 Base Flow 24-0213	WGNA-SW/SD-NCREF4 WGNA-SW-NCREF4-20240318 3/18/2024 Base Flow Neshaminy 24-0204
POLYFLUOROALKYL SUBSTANCES (NG/L)									
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	5.4	NC	NC	1.39 U	1.6 U	1.52 U	1.43 U	1.48 U	1.53 U
PERFLUOROBUTANESULFONIC ACID (PFBS)	21000	400000	5710000	131	9.09	8.67	6.76	9.58	5.57
PERFLUOROBUTANOIC ACID (PFBA)	34000	64600	8370000	32.4	5.88 J	6.2 J	5.71 J	4.78 J	4.71 J
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1200	65300	5500	**1240**	25.2	26.9	19.2	4.4	8.09
PERFLUOROHEXANOIC ACID (PFHXA)	31000	28800	2210000	131	8.37	8.03	8.43	5.62	7.34
PERFLUORONONANOIC ACID (PFNA)	170	16400	2080	13.6	2.23	2.02	2.26	1.79	1.68
PERFLUOROOCTANESULFONIC ACID (PFOS)	140	22600	117	**2090**	45.9	47.8	36.7	9.37	15.2
PENTADECAFLUOROOCTANOIC ACID (PFOA)	210	307000	1580000	**319**	23.3	24.5	13	11.7	10.4
PERFLUORODECANOIC ACID (PFDA)	NC	2940	660	1.92	0.476 U	0.454 U	0.427 U	0.44 U	0.455 U
PERFLUORODODECANOIC ACID (PFDOA)	NC	72000	NC	0.561 U	0.643 U	0.613 U	0.577 U	0.594 U	0.614 U
PERFLUOROHEPTANOIC ACID (PFHPA)	NC	870000	NC	38.9	4.03	4.33	4.74	3.28	3.12
PERFLUOROUNDECANOIC ACID (PFUNA)	NC	49000	NC	0.378 U	0.434 U	0.413 U	0.389 U	0.4 U	0.414 U
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	NC	NC	NC	0.371 U	0.425 U	0.405 U	0.381 U	0.393 U	0.406 U
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	NC	NC	NC	1.22 U	1.4 U	1.33 U	1.25 U	1.29 U	1.34 U
PERFLUORODECANESULFONIC ACID (PFDS)	NC	NC	NC	0.302 U	0.346 U	0.33 U	0.31 U	0.32 U	0.331 U
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	NC	NC	NC	38.7	0.981 J	0.969 J	0.77 J	0.272 J	0.341 J
PERFLUORONONANESULFONIC ACID (PFNS)	NC	NC	NC	0.464 U	0.532 U	0.507 U	0.477 U	0.491 U	0.508 U
PERFLUOROOCTANE SULFONAMIDE (FOSA)	NC	NC	NC	0.35 U	0.402 U	0.383 U	0.36 U	0.371 U	0.384 U
PERFLUOROPENTANESULFONIC ACID (PFPES)	NC	NC	NC	157	3.57	3.42	2.74	0.736 J	1.01 J
PERFLUOROPENTANOIC ACID (PFPEA)	NC	140000	NC	72.7	7.59	7.5	6.65	4.14	6.34
PERFLUOROTETRADECANOIC ACID (PFTEA)	NC	NC	NC	0.799 U	0.917 U	0.874 U	0.822 U	0.846 U	0.876 U
PERFLUOROTRIDECANOIC ACID (PFTRIA)	NC	NC	NC	0.676 U	0.776 U	0.739 U	0.695 U	0.716 U	0.741 U
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	NC	NC	NC	1.29 U	1.48 U	1.41 U	1.33 U	1.37 U	1.42 U
4:2 FLUOROTELOMER SULFONATE	NC	NC	NC	2.46 U	2.82 U	2.69 U	2.53 U	2.6 U	2.69 U
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	NC	NC	NC	12.6	3.16 U	3.01 U	2.84 U	2.92 U	3.02 U
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	NC	NC	NC	1.71 U	1.96 U	1.87 U	1.75 U	1.81 U	1.87 U
9CL-PF3ONS	NC	NC	NC	1.3 U	1.49 U	1.42 U	1.34 U	1.38 U	1.43 U
11CL-PF3OUDS	NC	NC	NC	2.03 U	2.33 U	2.22 U	2.09 U	2.15 U	2.22 U
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	NC	NC	NC	2.7 U	3.1 U	2.95 U	2.78 U	2.86 U	2.96 U
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	NC	NC	NC	3.07 U	3.53 U	3.36 U	3.16 U	3.25 U	3.37 U
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	NC	NC	NC	3.11 U	3.57 U	3.4 U	3.2 U	3.29 U	3.41 U
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	NC	NC	NC	8.31 U	9.53 U	9.08 U	8.54 U	8.8 U	9.1 U
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	NC	NC	NC	9.72 U	11.2 U	10.6 U	10 U	10.3 U	10.7 U
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	NC	NC	NC	0.186 U	0.213 U	0.203 U	0.191 U	0.197 U	0.204 U
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	NC	NC	NC	1.06 U	1.22 U	1.16 U	1.09 U	1.13 U	1.17 U
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	NC	NC	NC	1.42 U	1.62 U	1.55 U	1.46 U	1.5 U	1.55 U
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	NC	NC	NC	0.395 U	0.453 U	0.432 U	0.406 U	0.418 U	0.433 U
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	NC	NC	NC	1.17 U	1.34 U	1.28 U	1.2 U	1.24 U	1.28 U
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	NC	NC	NC	1.12 U	1.28 U	1.22 U	1.15 U	1.18 U	1.22 U
PERFLUORODODECANESULFONIC ACID (PFDOS)	NC	NC	NC	0.335 U	0.385 U	0.367 U	0.345 U	0.355 U	0.367 U
FIELD									
TEMPERATURE (CELSIUS)	NC	NC	NC	11.94	9.97	9.97	7.68	8.22	10.48
FLOW RATE (CUBIC FEET PER SECOND)	NC	NC	NC	--	220	220	8.78	0.52	--
VISUAL (COLOR)	NC	NC	NC	0	0	0	0	0	0
SAMPLE DEPTH (INCHES)	NC	NC	NC	2.5	5	5	18	2.5	9
DISSOLVED OXYGEN (mg/L)	NC	NC	NC	9.25	12.88	12.88	9.95	13.31	16.22
SPECIFIC CONDUCTANCE (mS/cm)	NC	NC	NC	0.385	0.482	0.482	0.456	0.416	0.456
ORP (mV)	NC	NC	NC	315	326	326	236	262	246
TURBIDITY (NTU)	NC	NC	NC	3.1	2.06	2.06	3.99	2.19	3.21
PH (S.U.)	NC	NC	NC	7.82	7.7	7.7	8.09	8.23	7.64

Notes:
Result is above PAL.
Result is bolded if above Human Health PAL (1).
Result is italicized if above Ecological Aquatic Organism PAL (2).
Result is underlined if above Ecological Wildlife PAL (2).
See end notes

(1): Human health surface water PALs were derived using the EPA RSL Calculator (November 2023) based on a target cancer risk level of 1E-6 (applicable to PFOA only) and a target hazard quotient of 0.1. See text.

(2): Ecological screening levels for PFAS have not been developed by EPA. Therefore, ecological PALs for aquatic invertebrate and wildlife values were identified based on a review of the literature. All ecological wildlife PALs are based on Grippo, et. al., 2021 and Lavoie, et. al., 2024. The aquatic organism PALs for PFOA, PFOS, PFBS, PFDA, PFHxA, and PFNA are based on Grippo, et. al., 2021, and PFDoA, PFHpA, and PFUNA are based on SERDP ER18-1653 (Divine et al., 2020). Divine et al. (2020) wildlife values are NOAEL-based. See text.

--: No data

D: Field duplicate

J: The reported value is an estimated concentration

mS/cm: milliSiemens per centimeter

mg/L: milligrams per liter

mV: millivolts

NC: No criteria established

ng/L: Nanogram per liter

NTU: nephelometric turbidity units

ORP: oxidation-reduction potential

PAL: Project action level

S.U.: standard units

U: Not detected

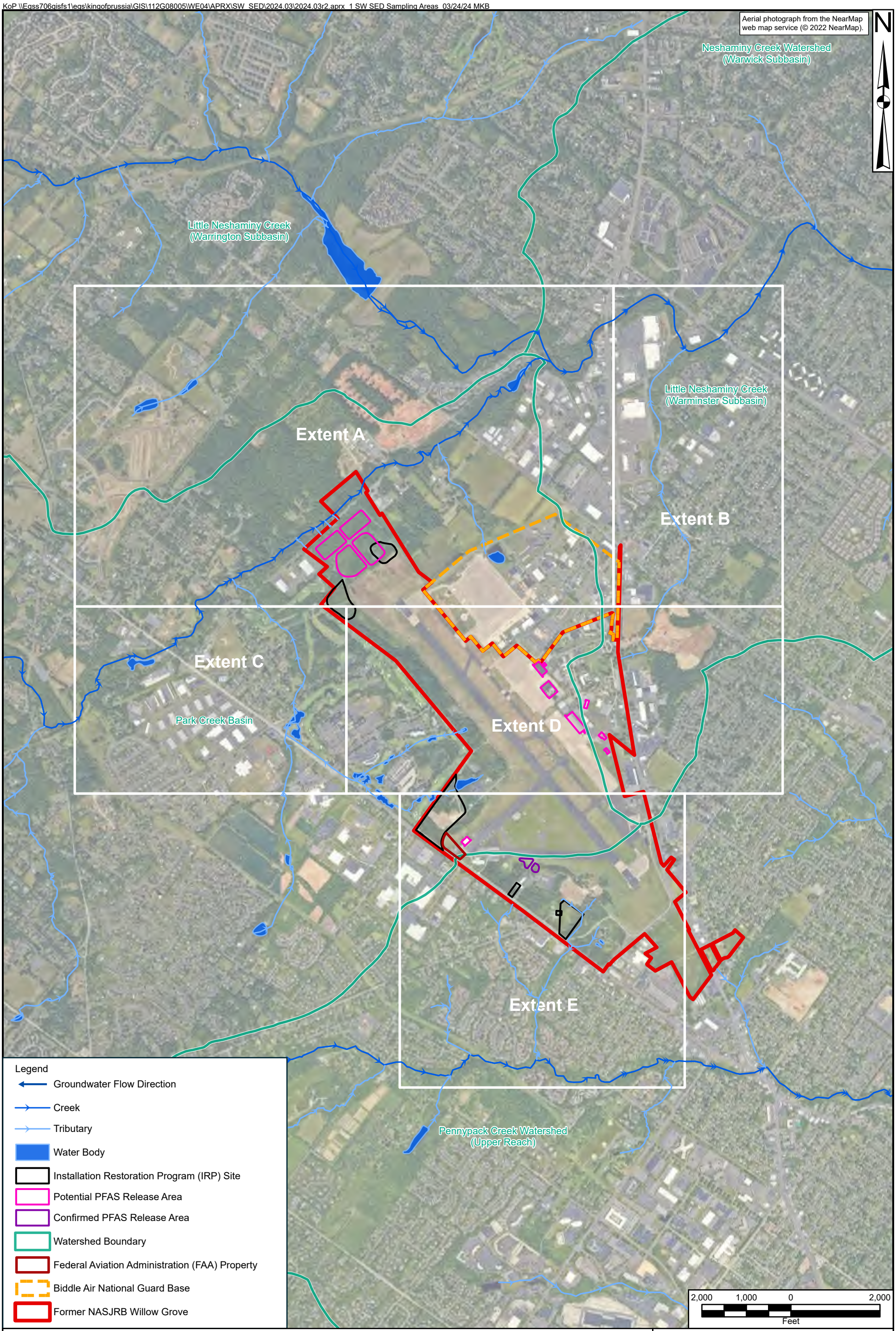
UJ: The analyte was not detected; and the reporting limit is approximate

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FIGURES

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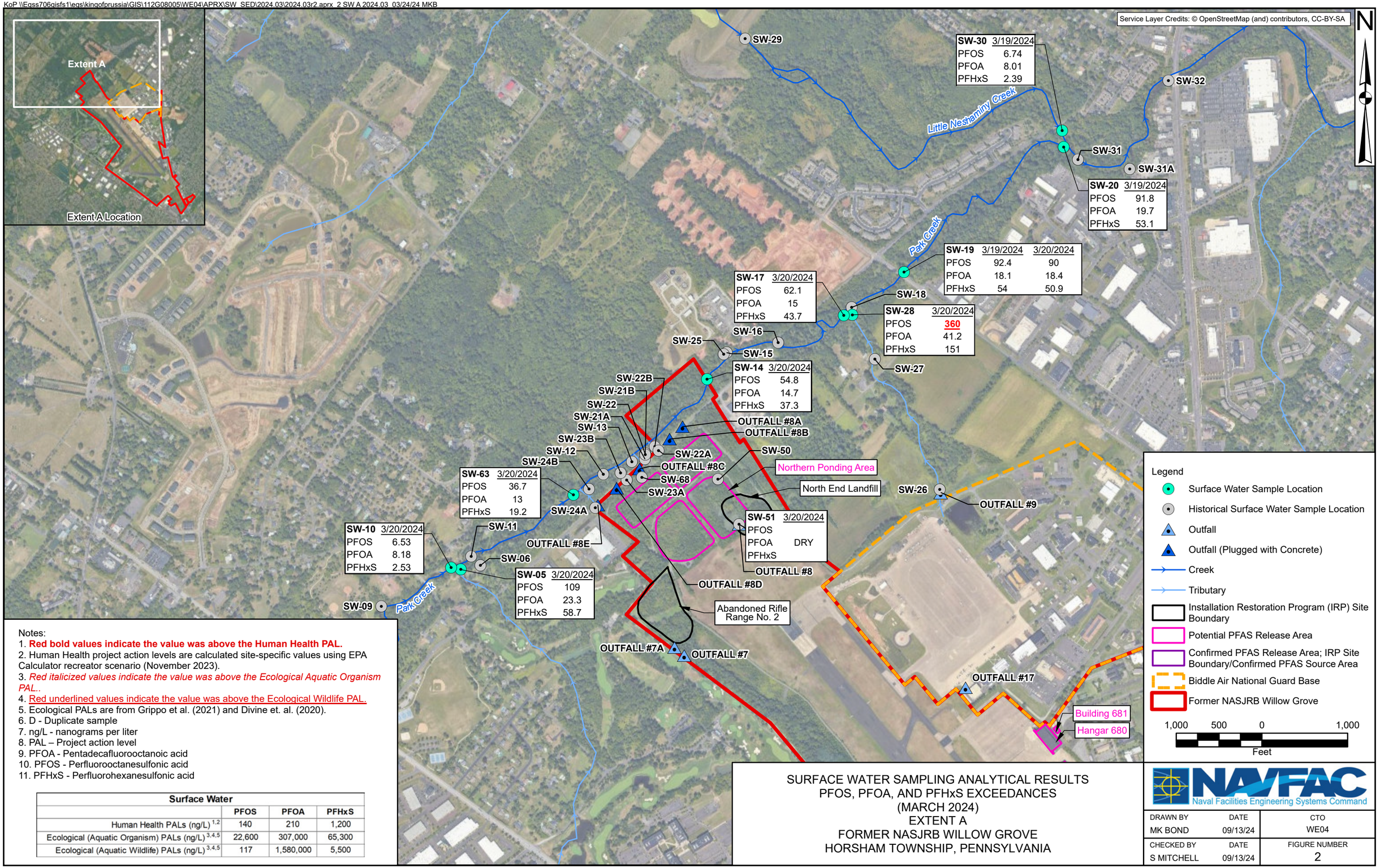
SURFACE WATER SAMPLING AREAS
EXTENT LOCATION MAP
FORMER NASJRB WILLOW GROVE
HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC
Naval Facilities Engineering Systems Command

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Notes:
1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL..*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
6. D - Duplicate sample
7. ng/L - nanograms per liter
8. PAL – Project action level
9. PFOA - Pentadecafluorooctanoic acid
10. PFOS - Perfluorooctanesulfonic acid
11. PFHxS - Perfluorohexanesulfonic acid

Surface Water			
	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

SURFACE WATER SAMPLING ANALYTICAL RESULTS
PFOS, PFOA, AND PFHxS EXCEEDANCES
(MARCH 2024)
EXTENT A
FORMER NASJRB WILLOW GROVE
HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

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Notes:
1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL.*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
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9. PFOA - Pentadecafluorooctanoic acid
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11. PFHxS - Perfluorohexanesulfonic acid

Surface Water	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

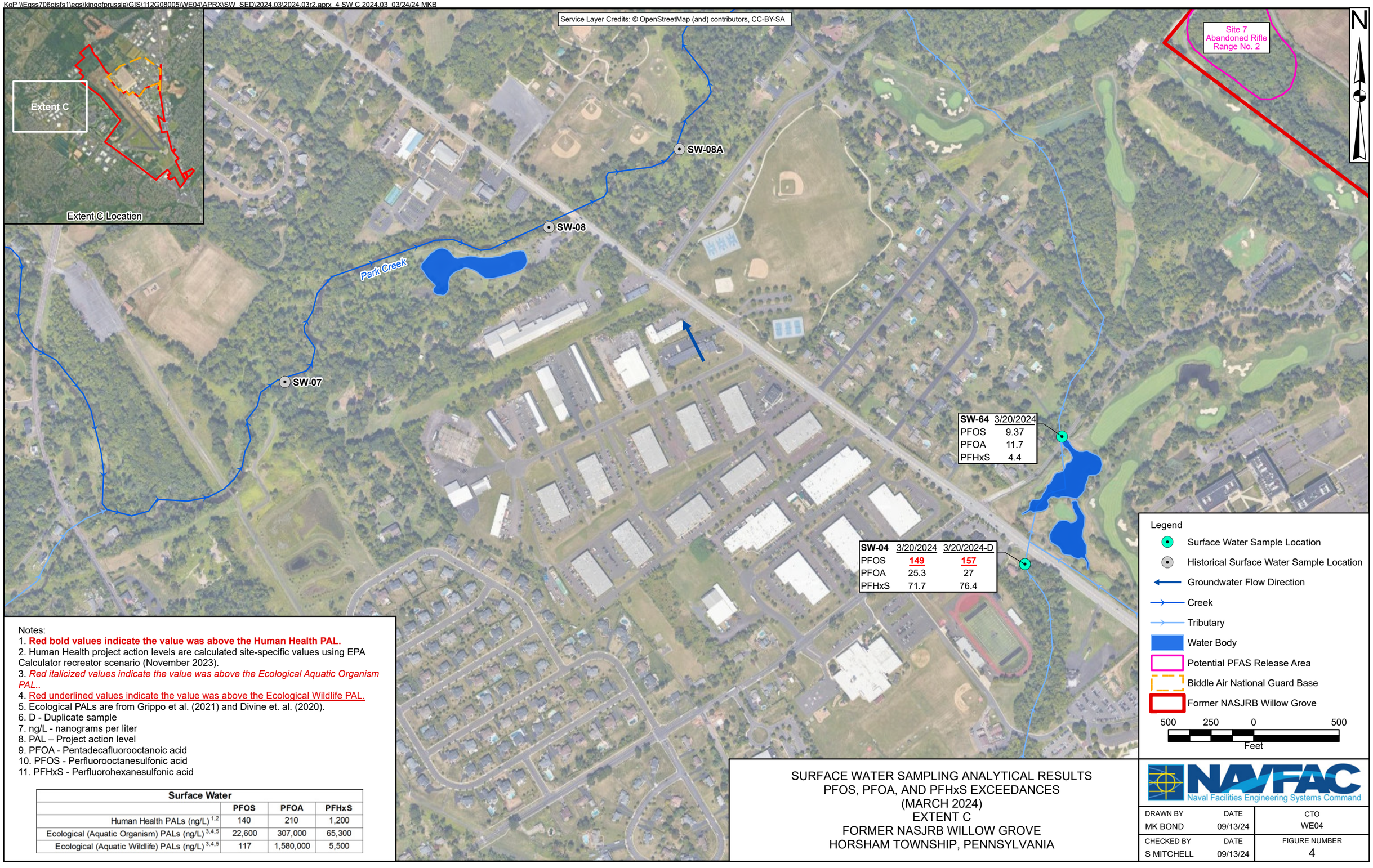
SURFACE WATER SAMPLING ANALYTICAL RESULTS
PFOS, PFOA, AND PFHxS EXCEEDANCES
(MARCH 2024)
EXTENT B
FORMER NASJRB WILLOW GROVE
HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

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Notes:
1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL..*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
6. D - Duplicate sample
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9. PFOA - Pentadecafluorooctanoic acid
10. PFOS - Perfluorooctanesulfonic acid
11. PFHxS - Perfluorohexanesulfonic acid

Surface Water			
	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

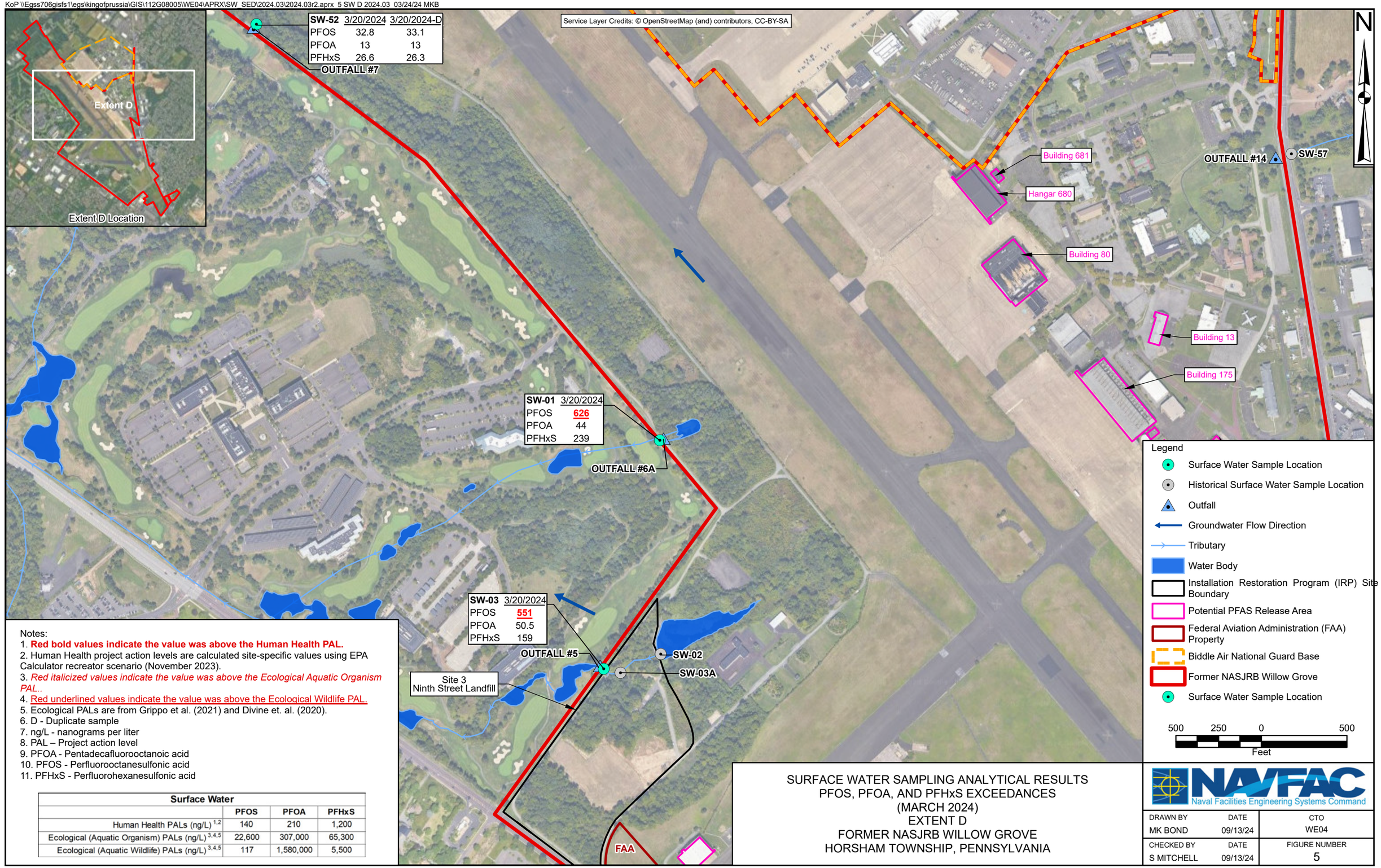
SURFACE WATER SAMPLING ANALYTICAL RESULTS PFOS, PFOA, AND PFHxS EXCEEDANCES (MARCH 2024) EXTENT C FORMER NASJRB WILLOW GROVE HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

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Notes:
1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL..*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
6. D - Duplicate sample
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Surface Water			
	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

Legend
- Surface Water Sample Location
- Historical Surface Water Sample Location
- Outfall
- Groundwater Flow Direction
- Tributary
- Water Body
- Installation Restoration Program (IRP) Site Boundary
- Potential PFAS Release Area
- Federal Aviation Administration (FAA) Property
- Biddle Air National Guard Base
- Former NASJRB Willow Grove
- Surface Water Sample Location

500 250 0 500
Feet

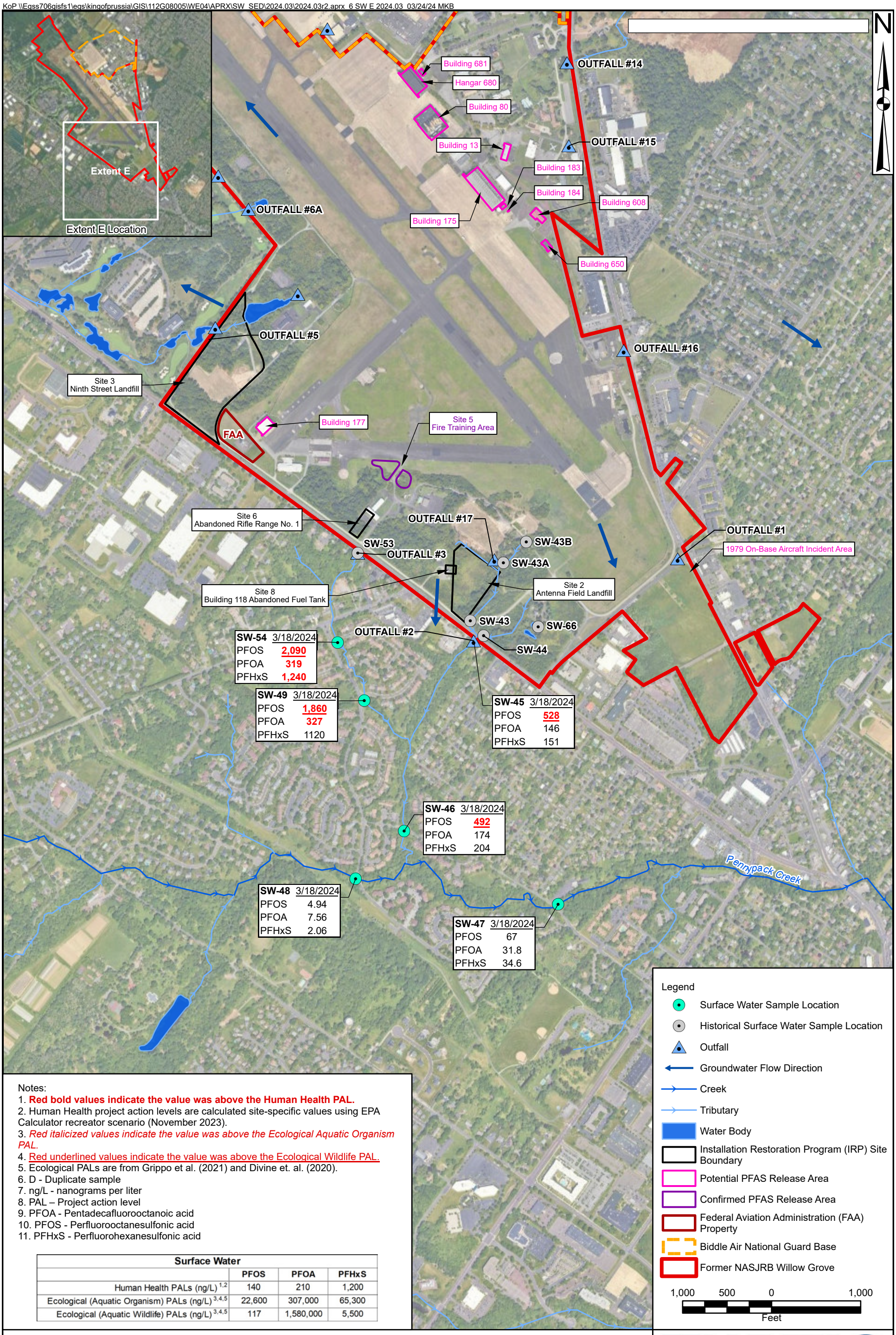
SURFACE WATER SAMPLING ANALYTICAL RESULTS PFOS, PFOA, AND PFHxS EXCEEDANCES (MARCH 2024) EXTENT D FORMER NASJRB WILLOW GROVE HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

DRAWN BY	DATE	CTO
MK BOND	09/13/24	WE04
CHECKED BY	DATE	FIGURE NUMBER
S MITCHELL	09/13/24	5

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KoP \\Egss706gisfs1\egs\kingofprussia\GIS\112G08005\WE04\APRX\SW_SED\2024.03\2024.03r2.aprx 6 SW E 2024.03 03/24/24 MKB



Notes:
1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL.*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
6. D - Duplicate sample
7. ng/L - nanograms per liter
8. PAL – Project action level
9. PFOA - Pentadecafluorooctanoic acid
10. PFOS - Perfluorooctanesulfonic acid
11. PFHxS - Perfluorohexanesulfonic acid

Surface Water			
	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

PFAS SURFACE WATER SAMPLING ANALYTICAL RESULTS
PFOS, PFOA, AND PFHxS EXCEEDANCES
(MARCH 2024)
EXTENT E
FORMER NASJRB WILLOW GROVE
HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

DRAWN BY	DATE	CTO
MK BOND	09/13/24	WE04
CHECKED BY	DATE	FIGURE NUMBER
S MITCHELL	09/13/24	6

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Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA

N

Neshaminy Creek Watershed (Doylestown Subbasin)

Neshaminy Creek

Neshaminy Creek Watershed (Warwick Subbasin)

NCREF-1

NCREF-2

SW-33A

SW-71

NCREF-4 3/18/2024

PFOS	15.2
PFOA	10.4
PFHxS	8.09

Newtown Creek

NewtownCreek

Neshaminy Creek Watershed (Northampton Subbasin)

SW-65

Little Neshaminy Creek

SW-36 3/19/2024

PFOS	56.3
PFOA	18.3
PFHxS	35.3

SW-36A 3/19/2024

PFOS	74.6
PFOA	16.9
PFHxS	27.4

SW-67

Little Neshaminy Creek Watershed (Warrington Subbasin)

LNCREF-1

SW-72

SW-73

SW-37

Little Neshaminy Creek (Warminster Subbasin)

NCREF-3

Park Creek

PCREF-1

PCREF-2

Park Creek Basin

Ironworks Creek

Ironworks Creek Basin

Mill Creek

PPREF-2

SW-55

SW-70

SW-69

SW-62

Southampton Creek

Pennypack Creek

SW-56 3/18/2024 3/18/2024-D

PFOS	47.8	45.9
PFOA	24.5	23.3
PFHxS	26.9	25.2

SW-61

PPREF-1

Pennypack Creek

Legend

- Surface Water Sample Location
- Historical Surface Water Sample Location
- USGS Flow Gauge Station
- Groundwater Flow Direction
- Creek
- Tributary
- Water Body
- Installation Restoration Program (IRP) Site Boundary
- Potential PFAS Release Area
- Confirmed PFAS Release Area; IRP Site Boundary/Confirmed PFAS Source Area
- Federal Aviation Administration (FAA) Property
- Biddle Air National Guard Base
- Former NASJRB Willow Grove

5,000 2,500 0 5,000

Feet

Notes:

1. **Red bold values indicate the value was above the Human Health PAL.**
2. Human Health project action levels are calculated site-specific values using EPA Calculator recreator scenario (November 2023).
3. *Red italicized values indicate the value was above the Ecological Aquatic Organism PAL.*
4. Red underlined values indicate the value was above the Ecological Wildlife PAL.
5. Ecological PALs are from Grippo et al. (2021) and Divine et. al. (2020).
6. D - Duplicate sample
7. ng/L - nanograms per liter
8. PAL – Project action level
9. PFOA - Pentadecafluorooctanoic acid
10. PFOS - Perfluorooctanesulfonic acid
11. PFHxS - Perfluorohexanesulfonic acid

Surface Water			
	PFOS	PFOA	PFHxS
Human Health PALs (ng/L) [1,2]	140	210	1,200
Ecological (Aquatic Organism) PALs (ng/L) [3,4,5]	22,600	307,000	65,300
Ecological (Aquatic Wildlife) PALs (ng/L) [3,4,5]	117	1,580,000	5,500

SURFACE WATER SAMPLING ANALYTICAL RESULTS PFOS, PFOA, AND PFHxS EXCEEDANCES (MARCH 2024) REFERENCE AND REGIONAL FORMER NASJRB WILLOW GROVE HORSHAM TOWNSHIP, PENNSYLVANIA

NAVFAC Naval Facilities Engineering Systems Command

DRAWN BY	DATE	CTO
MK BOND	09/13/24	WE04
CHECKED BY	DATE	FIGURE NUMBER
S MITCHELL	09/13/24	7

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APPENDIX A
FIELD DATA SHEETS

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SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: WGNA-SW-45-20240318	**Sampled By:** CS/SB
Sample Location: SW-45	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1328
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	7.85	0.246	9.77	2.64	9.76	336	N/A	N/A

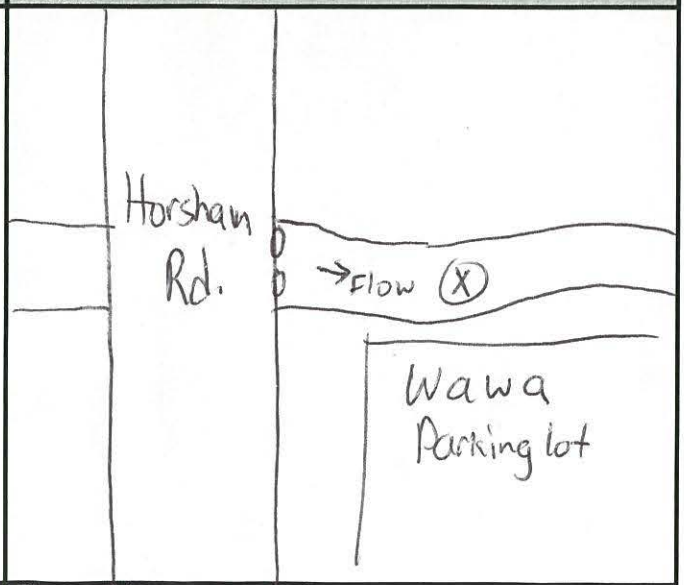
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.187152	-75.114440

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- NCREF4-20240318		**Sampled By:**	CS/SB
Sample Location: SW- NCREF4		**Sample Date:**	3/18/2024
QA/QC Duplicate ID: N/A		**Sample Time:**	1050
MS/MSD Collected:	YES (NO)		

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 18"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	9"	Clear	7.64	0.456	16.22	3.21	10.48	246	N/A	N/A

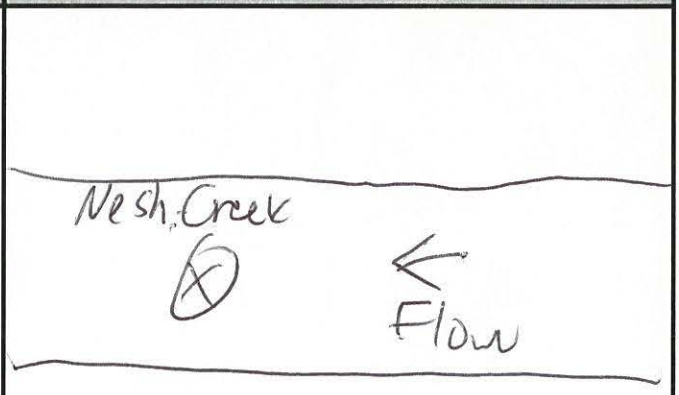
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.261711	-75.096794

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-56-20240318	**Sampled By:** CS/SB
Sample Location: SW- 56	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: WGNA-SW-DUP-01-20240318	**Sample Time:** 1205
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 10"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	5"	Clear	7.70	0.482	12.88	2.05	9.97	326	N/A	N/A

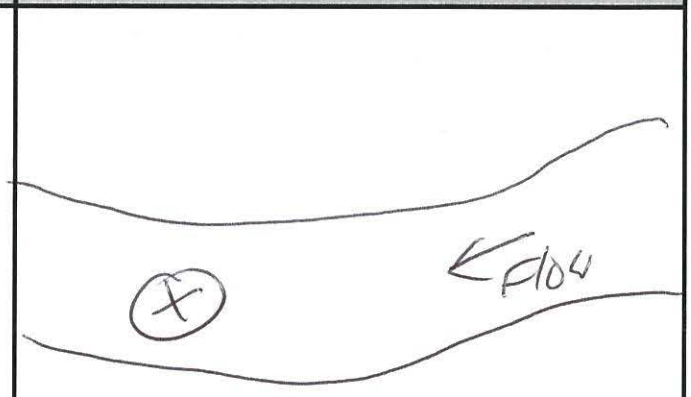
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 (Draft) compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	4
Total Suspended Solids		None	1	125mL	HDPE Poly	2

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.177402	-75.122226	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: WGNA-SW-47-20240318	**Sampled By:** CS/SB
Sample Location: SW-47	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1240
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 10"

SAMPLE DATA:

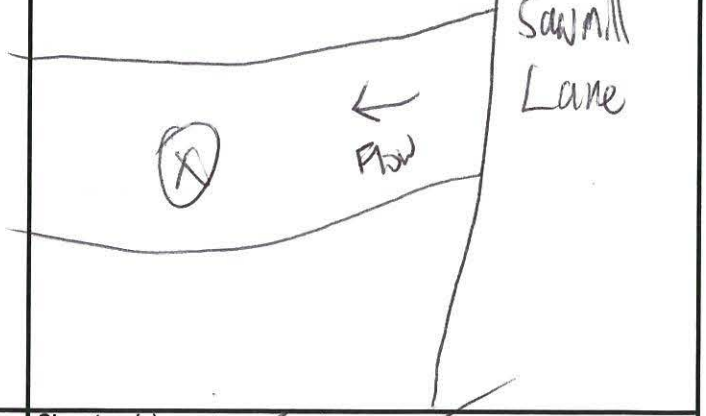
Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	5"	Clear	7.59	0.331	12.44	4.01	9.46	318	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:
Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.178961	-75.14475	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 48 - 20240318	**Sampled By:** CS/SB
Sample Location: SW- 48	**Sample Date:** 3/18 /2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1300
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 8"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	4"	Clear	7.45	0.265	11.99	324	9.58	317	N/A	N/A

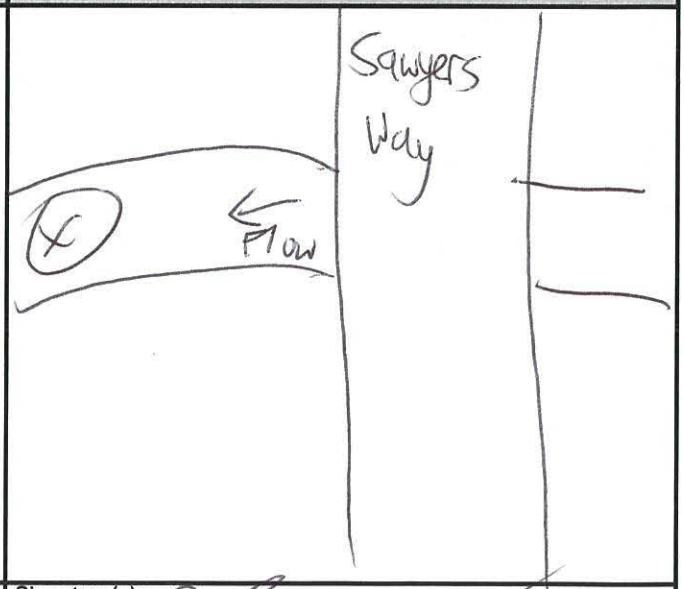
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.179940	-75.149438	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 46-20240318	**Sampled By:** CS/SB
Sample Location: SW- 46	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1315
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	7.55	0.416	15.26	2.51	15.18	336	N/A	N/A

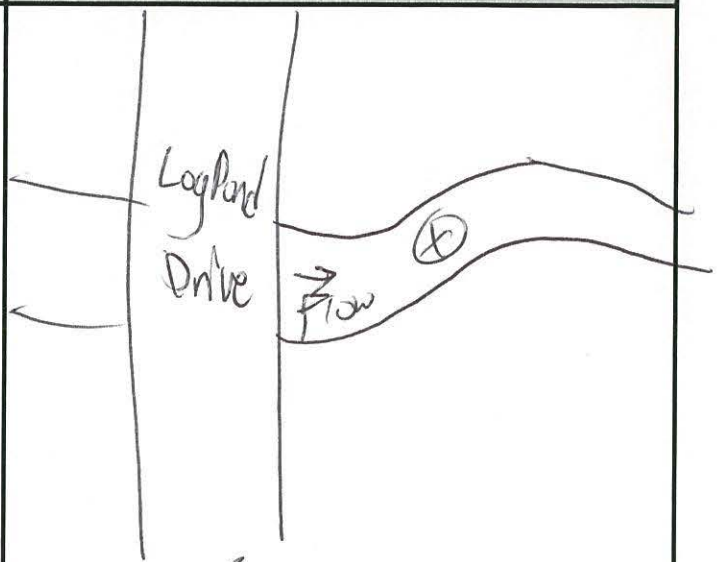
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.181365	-75.147430	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 49 - 20240318	**Sampled By:** CS/SB
Sample Location: SW- 49	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1408
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 4"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2"	Clear	7.99	0.365	10.44	4.02	12.90	320	N/A	N/A

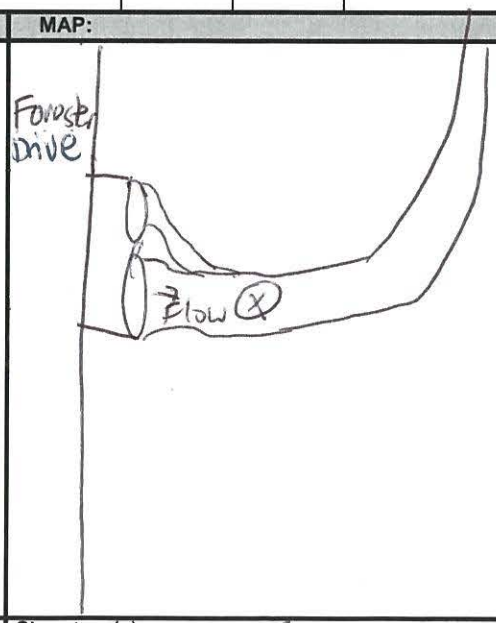
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.185420	-75.144875	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-54-20240318	**Sampled By:** CS/SB
Sample Location: SW- 54	**Sample Date:** 3/18/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1420
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 5'

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2.5'	Clear	7.82	0.385	9.25	3.10	11.94	315	NA	N/A

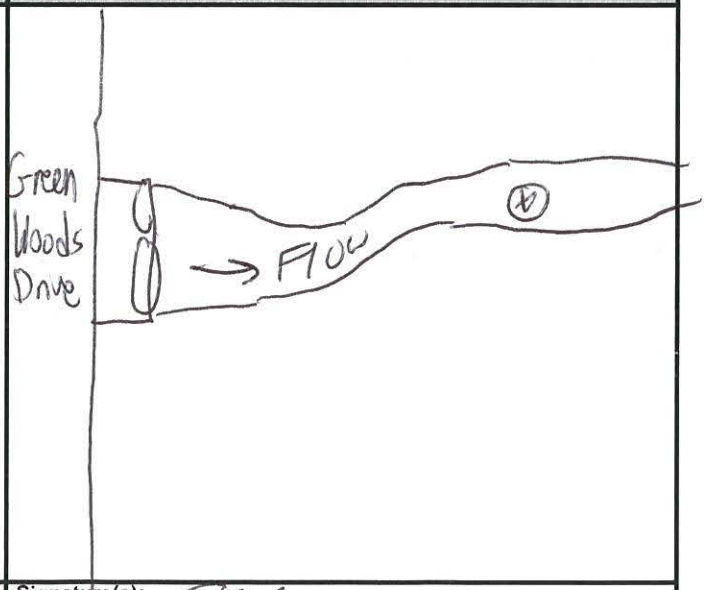
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.187230	-75.144695

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-53-20240318	**Sampled By:** CS/SB
Sample Location: SW- 53	**Sample Date:** 3/18 /2024
QA/QC Duplicate ID: N/A	**Sample Time:** N/A
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:**

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

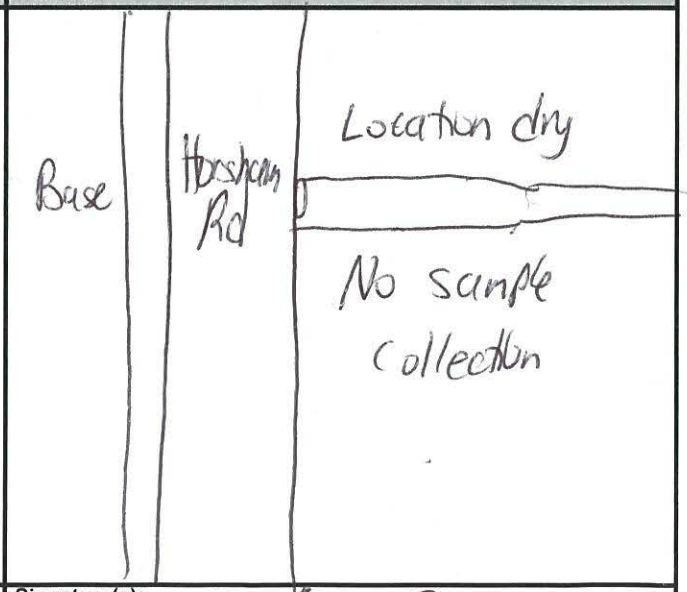
Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	N/A
Total Suspended Solids		None	1	125mL	HDPE Poly	N/A

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

Location dry. No sample collection

MAP:



Coordinates:	N	E
	40.189963	-75.148963

Signature(s):

Tetra Tech

QA SAMPLE LOG SHEET

Project Site Name: NASJRB Willow Grove
Project Number: 112G08005-WE04 FI.5W
Sample Location: SW-NCREF4
Sample ID Number: WGNA-FB-20240318
Sampled By: CS
C.O.C. Number: N/A

QA Sample Type:

[] Trip Blank
[] Scurce Water Blank
[] Rinsate Blank
[X] Other Blank Field Blank

SAMPLING DATA:	WATER SOURCE:
Date: 3/18/24	[X] Laboratory Prepared
Time: 1000	[] Purchased
Method: Grab	[] Other
	[] Tap
	[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: N/A	Media Type: N/A
Supplier:	Equipment Used:
Manufacturer:	Equipment Type:
Order Number:	[] Dedicated
Lot Number:	[] Reusable
Expiration Date:	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PFAS EPA Draft Method 1633	Cool 4°C	500mL HDPE x 2	(YES) NO

OBSERVATIONS / NOTES:

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 36A-20240319	**Sampled By:** CS/SB
Sample Location: SW- 36A	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1020
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 12"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	6"	Clear	7.63	0.559	15.42	3.19	6.41	306	N/A	N/A

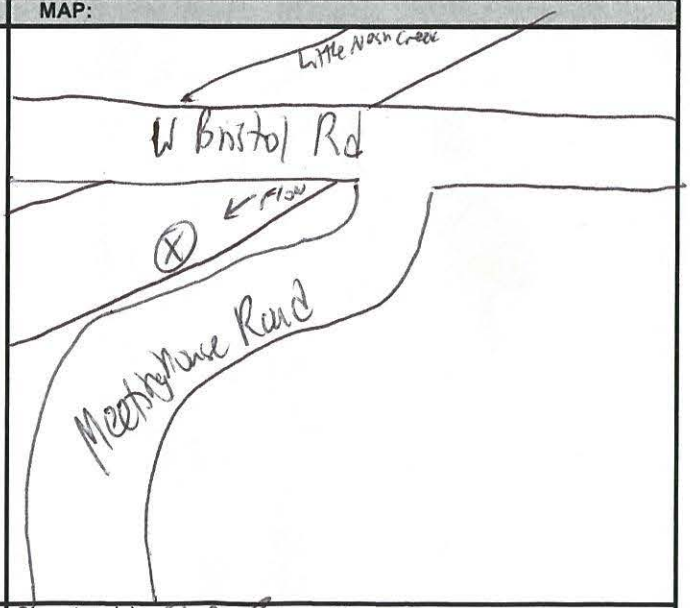
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA (draft) Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.232784	-75.102292

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: WGNA-SW- 36-20240319	**Sampled By:** CS/SB
Sample Location: SW- 36	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1105
MS/MSD Collected: (YES) NO	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 8"

SAMPLE DATA:

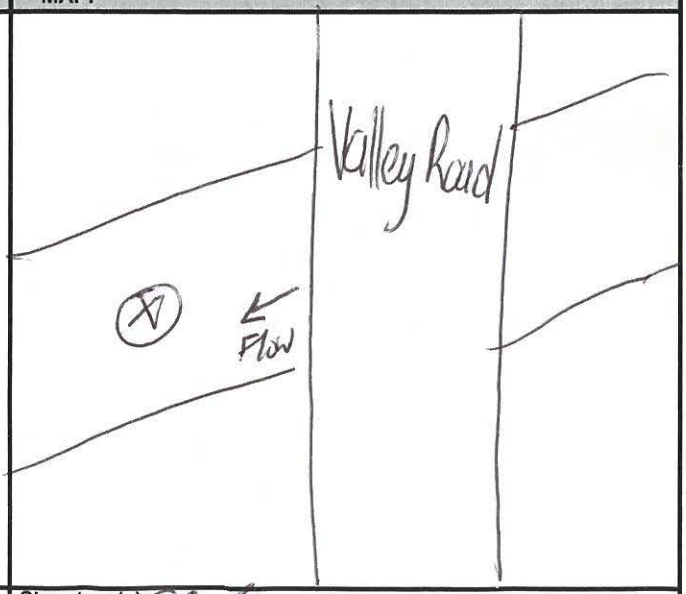
Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	4"	Clear	7.68	0.433	10.31	4.11	7.74	338	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	6
Total Suspended Solids		None	1	125mL	HDPE Poly	3

OBSERVATIONS / NOTES:
Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.228776	-75.119791

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 34A-20240319	**Sampled By:** CS/SB
Sample Location: SW- 34A	**Sample Date:** 3/19 /2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1132
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 18"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	9"	Clear	7.92	0.529	13.53	2.94	7.49	345	N/A	N/A

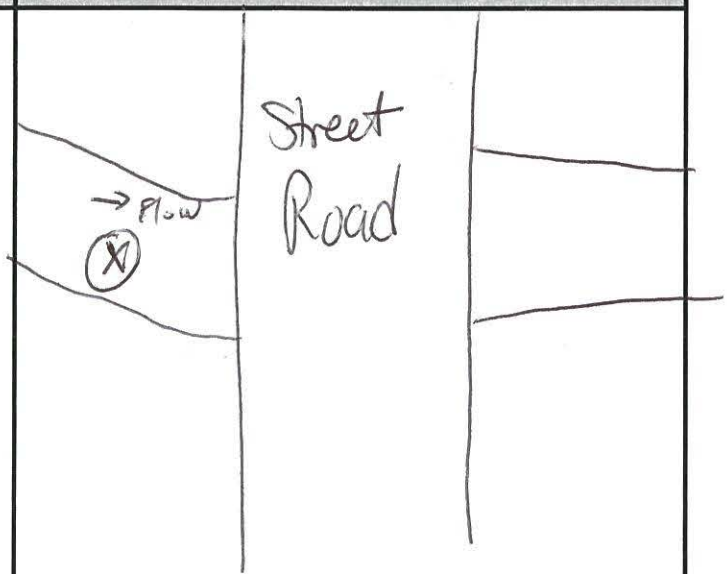
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.224365	-75.130458

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-	42-20240319	**Sampled By:**	CS/SB
Sample Location: SW-	42	**Sample Date:**	3/19/2024
QA/QC Duplicate ID:	N/A	**Sample Time:**	1155
MS/MSD Collected:	YES (NO)		

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other Total Depth: 4'

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2"	clear	7.85	0.526	12.61	3.19	7.85	333	NA	N/A

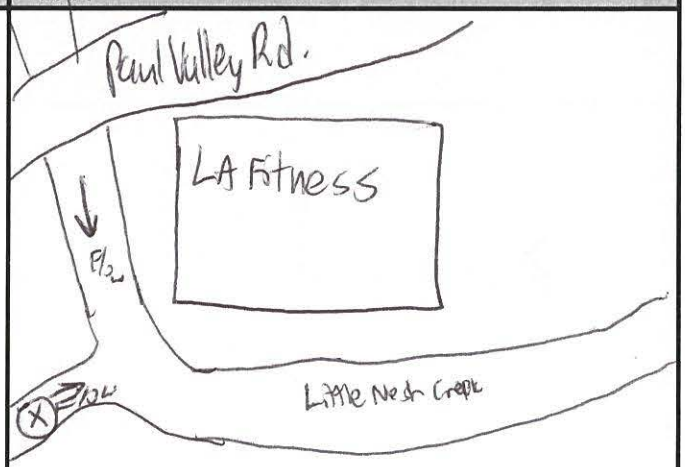
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.223628	-75.134103	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 41-20240319	**Sampled By:** CS/SB
Sample Location: SW- 41	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1315
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other Total Depth: 5"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2.5"	Clear	8.13	0.621	13.91	3.19	9.06	314	NA	N/A

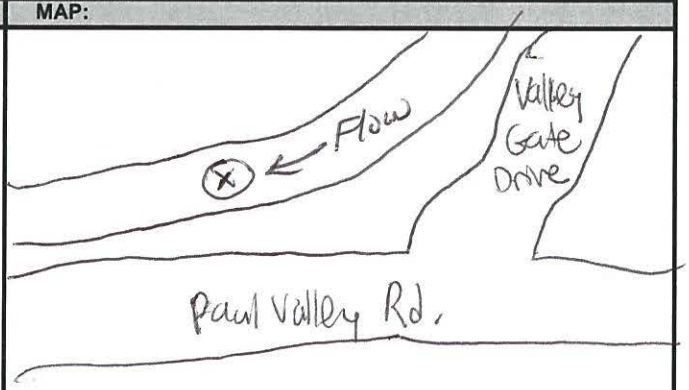
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.221942	-75.135356	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-39A-20240319	**Sampled By:** CS/SB
Sample Location: SW-39A	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: WGNA-SW-DUP-02-20240319 @ 0000	**Sample Time:** 1340
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6 ft

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3ft	Clear	7.93	0.501	14.19	4.26	9.40	244	N/A	N/A

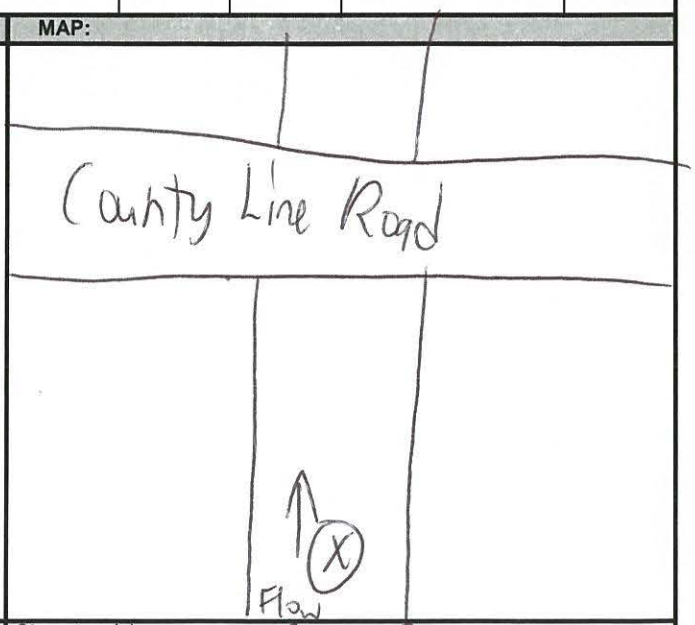
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	4
Total Suspended Solids		None	1	125mL	HDPE Poly	2

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.209209	-75.135322

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-33-20240319	**Sampled By:** CS/SB
Sample Location: SW-33	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1355
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	7.97	0.532	13.00	4.99	8.91	289	N/A	N/A

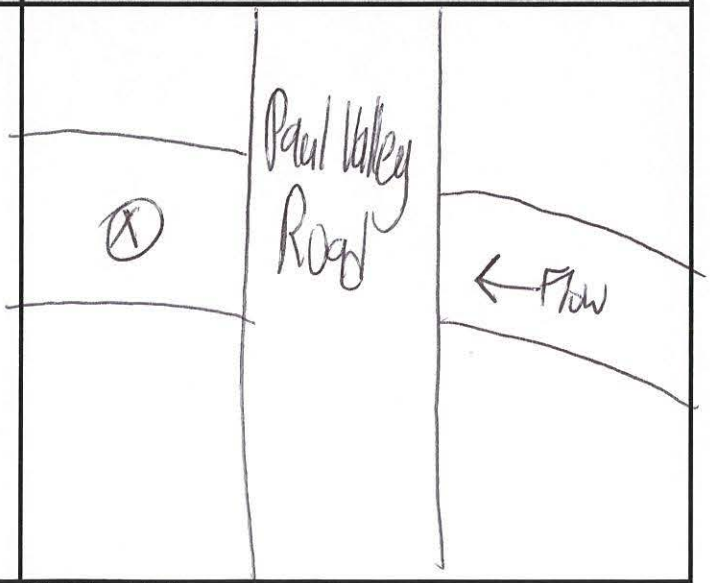
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 (DoD) compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.224660	-75.134280	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 30-20240319	**Sampled By:** CS/SB
Sample Location: SW- 30	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1410
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 8"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	4"	Clear	8.62	0.488	16.19	3.94	9.15	259	N/A	N/A

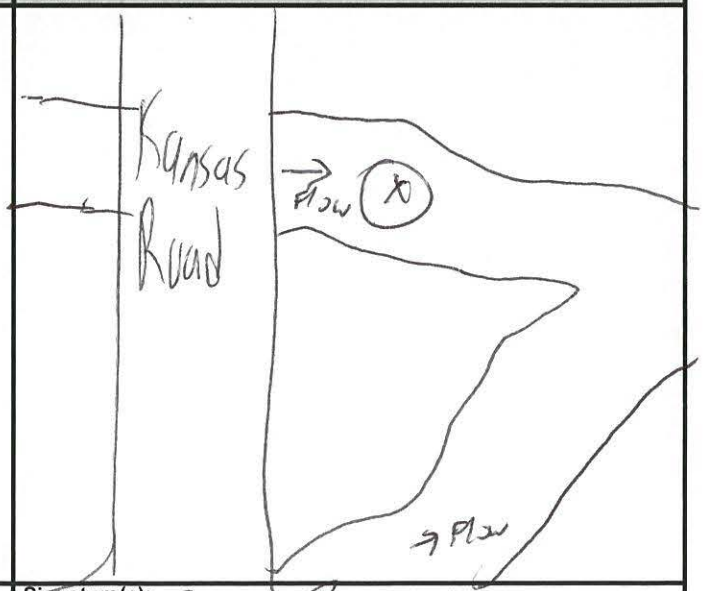
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.227895	-75.144836	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID:	WGNA-SW-20-20240319	**Sampled By:**	CS/SB
Sample Location:	SW-20	**Sample Date:**	3/19/2024
QA/QC Duplicate ID:	N/A	**Sample Time:**	1424
MS/MSD Collected:	YES (NO)		

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 12"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	6"	Clear	8.82	0.454	13.96	4.18	9.35	255	N/A	N/A

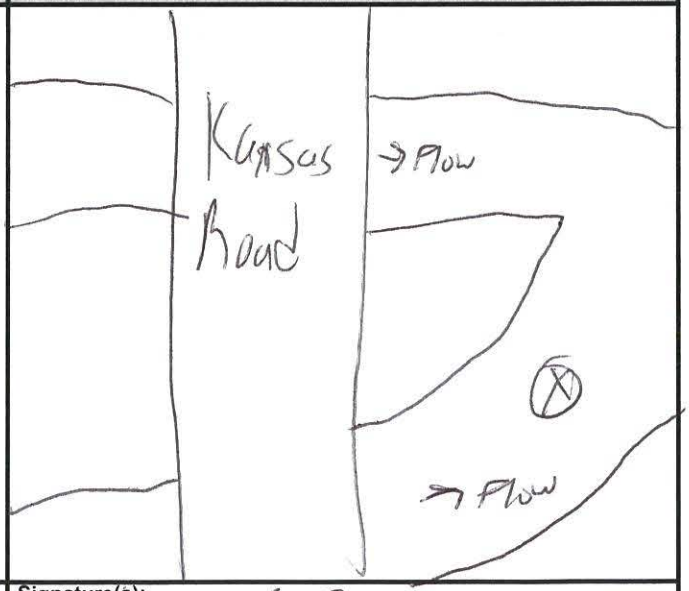
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.223374	-75.144800	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: WGNA-SW- 19-20240319	**Sampled By:** CS/SB
Sample Location: SW-19	**Sample Date:** 3/19/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1445
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 14"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	7"	Clear	9.10	0.458	16.66	4.9	9.56	255	NA	NA

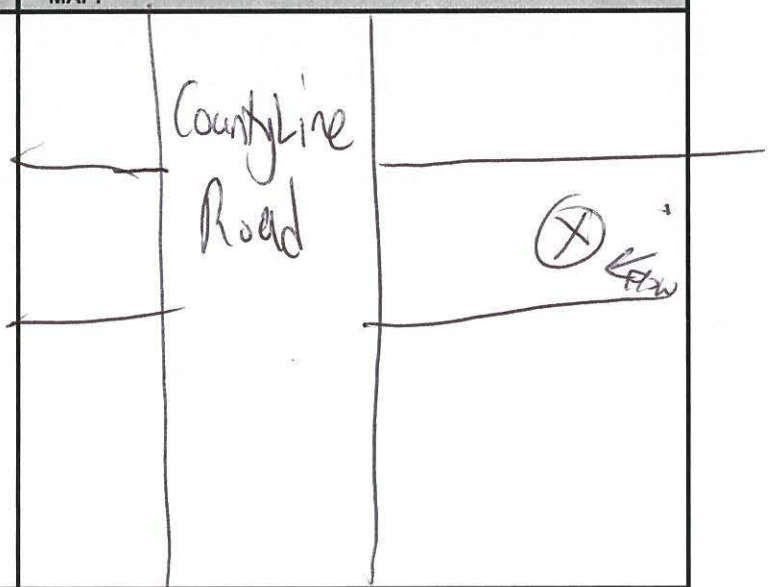
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 (Draft) compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.219513	-75.151611	

Tetra Tech

QA SAMPLE LOG SHEET

Project Site Name: NASJRB Willow Grove
Project Number: 112G08005-WE04 FI. 5W
Sample Location: SW-36A
QA Sample Type:

Sample ID Number: WGNAFB-20240319
Sampled By: CS
C.O.C. Number: N/A

[] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[X] Other Blank Field Bank

SAMPLING DATA:

Date: 3/19/24
Time: 1010
Method: Grab

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: N/A
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type: N/A
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PFAS 16,33	Cool 4°C	500 mL HDPE x 2	(YES) NO

OBSERVATIONS / NOTES:

Signature(s):

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SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: WGNA-SW-19-20240320	**Sampled By:** CS/SB
Sample Location: SW-19	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 0916
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 14"

SAMPLE DATA:

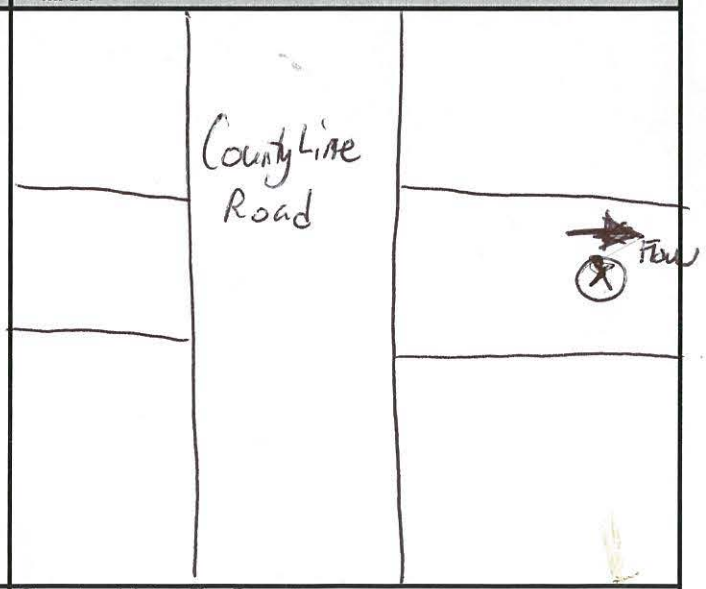
Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	9"	Clear	8.49	0.506	9.49	4.16	7.09	300	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:
Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.219513	-75.151617	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-17-20240320	**Sampled By:** CS/SB
Sample Location: SW- 17	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 0935
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 12"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	6"	Clear	8.16	0.492	11.75	3.26	7.95	302	N/A	N/A

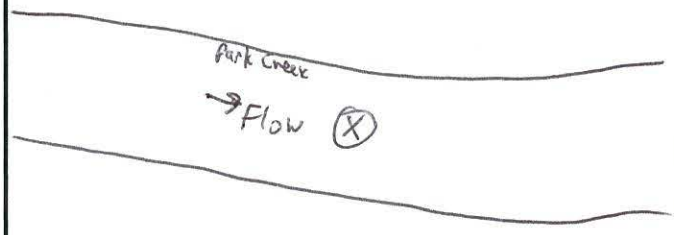
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 DoD compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.218189	-75.154092	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 28-20240320	**Sampled By:** CS/SB
Sample Location: SW- 28	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 0940
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	8.22	0.317	10.58	4.10	7.39	286	N/A	N/A

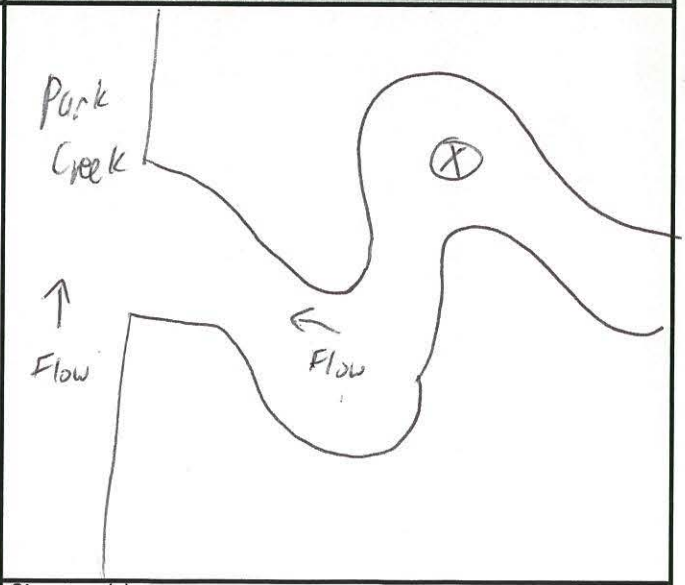
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 (DoD) compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.218199	-75.15339	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 14 - 20240329D	**Sampled By:** CS/SB
Sample Location: SW- 14	**Sample Date:** 3/29/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1000
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 18"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	9"	clear	8.09	0.454	11.45	4.94	7.53	288	N/A	N/A

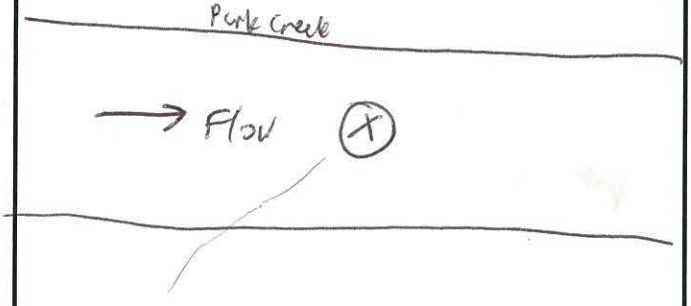
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 DOD compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.216267	-75.15997	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-63-20240320	**Sampled By:** CS/SB
Sample Location: SW-63	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1018
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 36"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	18"	Clear	8.09	0.456	9.95	3.99	11.68	236	N/A	N/A

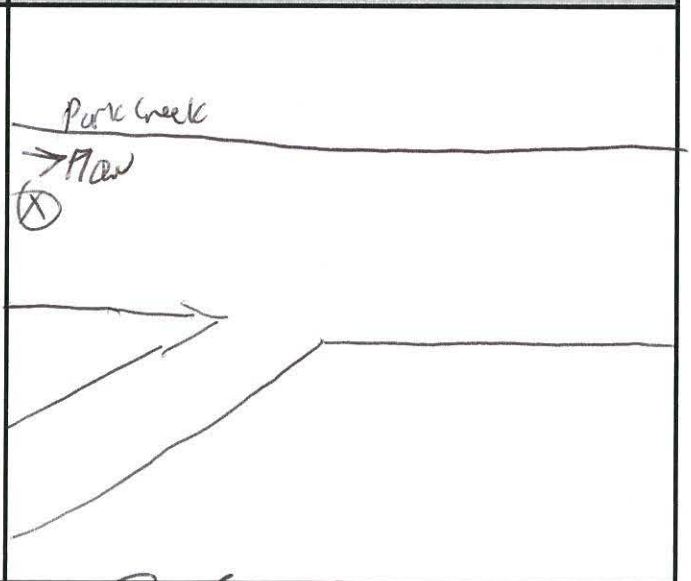
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 (Draft) compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.212693	-75.165584	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 10-20240320	**Sampled By:** CS/SB
Sample Location: SW- 10	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1045
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 8"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	4"	Clear	8.15	0.453	12.91	3.12	7.78	219	N/A	N/A

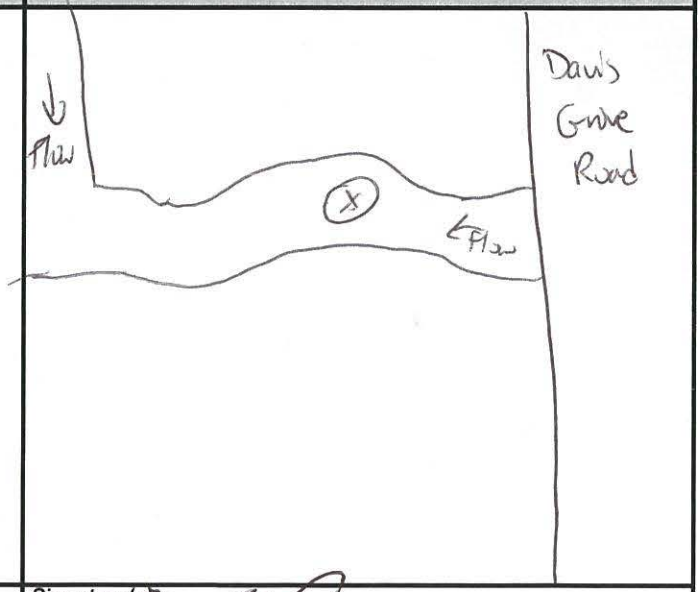
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.210483	-75.170893	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-05-20240320	**Sampled By:** CS/SB
Sample Location: SW- 05	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1055
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other Total Depth: 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	8.12	0.495	10.86	2.90	7.88	223	N/A	N/A

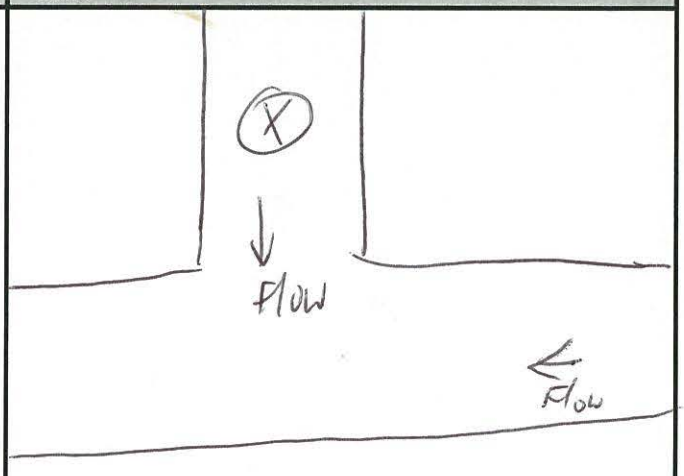
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.210407	-75.170484

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-04-20240320	**Sampled By:** CS/SB
Sample Location: SW-04	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: WGNA-SW-DUP-03-20240320 @0300	**Sample Time:** 1120
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 18"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	9"	clear	8.12	0.476	10.41	5.09	8.32	246	NA	NA

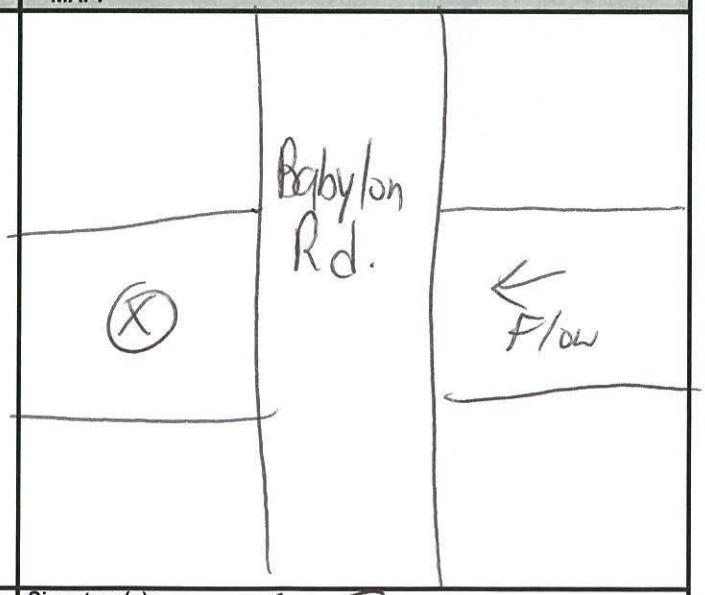
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	4
Total Suspended Solids		None	1	125mL	HDPE Poly	2

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.202592	-75.166630

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 64-20240320	**Sampled By:** CS/SB
Sample Location: SW-64	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1135
MS/MSD Collected: (YES) NO	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 5'11

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2.5"	Clear	8.23	0.416	13.31	2.19	8.22	262	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	6
Total Suspended Solids		None	1	125mL	HDPE Poly	3

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.200522	-75.166659

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-03-20240320	**Sampled By:** CS/SB
Sample Location: SW-03	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1235
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (‰ or ppt)	Other
Grab	3"	Clear	8.35	0.135	9.53	11.08	10.44	237	N/A	N/A

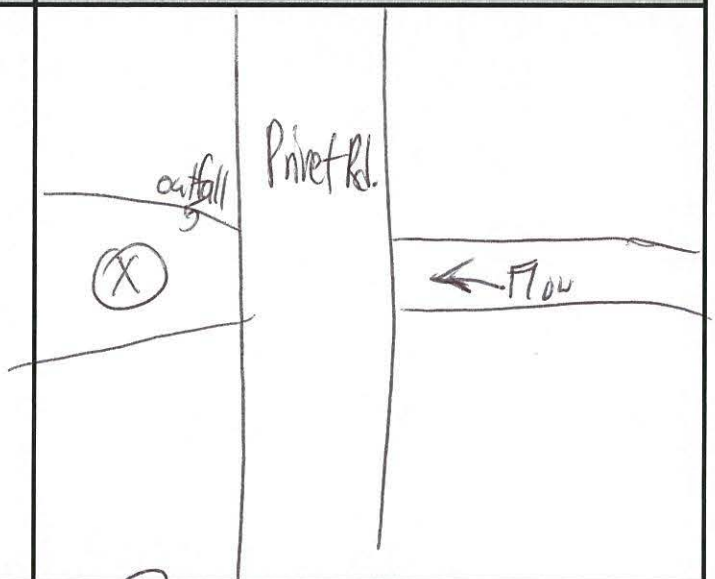
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.196497	-75.154306	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW- 01-20240320	**Sampled By:** CS/SB
Sample Location: SW- 01	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: N/A	**Sample Time:** 1252
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 6"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	3"	Clear	8.00	0.140	6.88	5.29	8.74	112	N/A	N/A

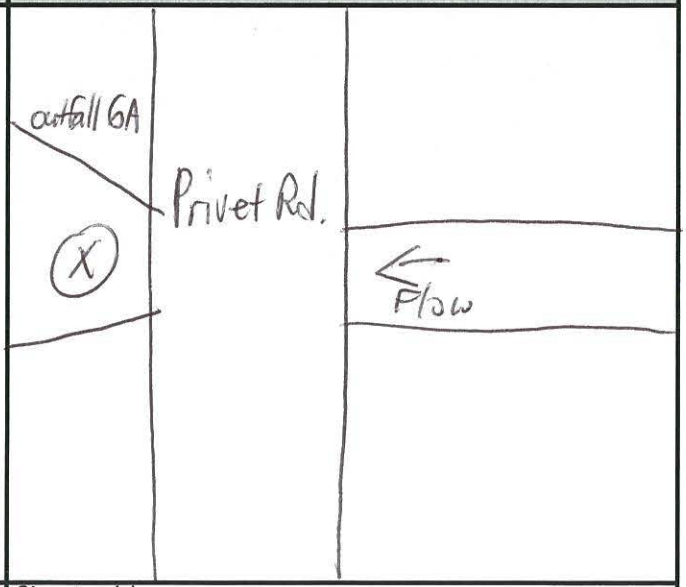
ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	2
Total Suspended Solids		None	1	125mL	HDPE Poly	1

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E
	40.200830	-75.152616

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event:	NASJRB Willow Grove
Project Site Name:	Surface Water Sampling (March 2024)
Project No.:	112G08005-WE04

Sample ID: WGNA-SW-52-20240320	**Sampled By:** CS/SB
Sample Location: SW-52	**Sample Date:** 3/20/2024
QA/QC Duplicate ID: WGNA-SW-DUP04-20240320 @ 0000	**Sample Time:** 1310
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:** 4"

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	2"	Clear	8.08	0.101	10.52	7.26	9.71	243	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Draft Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	4
Total Suspended Solids		None	1	125mL	HDPE Poly	2

OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

MAP:



Coordinates:	N	E	Signature(s):
	40.206671	-75.131080	

SURFACE WATER SAMPLE LOG SHEET

TETRA TECH

Event: NASJRB Willow Grove
Project Site Name: Surface Water Sampling (March 2024)
Project No.: 112G08005-WE04

Sample ID: No Sample collection - Dry location	**Sampled By:** CS/SB
Sample Location: SW- 51	**Sample Date:** N/A
QA/QC Duplicate ID: N/A	**Sample Time:** N/A
MS/MSD Collected: YES (NO)	

MATRIX / CONCENTRATION:

[X] Stream [ ] Pond [X] Low Concentration
[ ] Spring [ ] Lake [ ] High Concentration
[ ] Other **Total Depth:**

SAMPLE DATA:

Method	Depth	Color	pH (S.U.)	S.C. (mS/cm)	DO (mg/L)	Turbidity (NTU)	Temp. (C°)	ORP (mV)	Salinity (% or ppt)	Other
Grab	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ANALYSIS, PRESERVATION AND BOTTLE REQUIRMENTS

Analysis	Method	Preservative	Number	Vol.	Bottle Type	Collected
PFAS	PFAS by USEPA Method 1633 compliant with Table B-24 of the QSM	None	2	500 mL	HDPE Poly	N/A
Total Suspended Solids		None	1	125mL	HDPE Poly	N/A

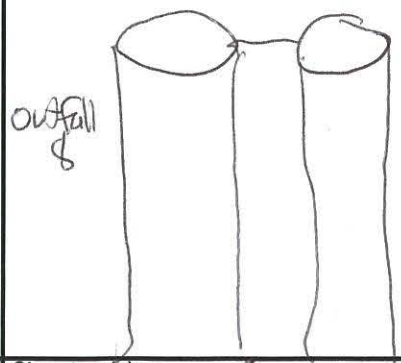
OBSERVATIONS / NOTES:

Horiba U-52 and Hanna Turbidity meter

Location is dry - No sample collection.

MAP:

Location is dry. No sample collection.



Coordinates:	N	E
	40.21474	-75.15.8617

Signature(s):

Tetra Tech

QA SAMPLE LOG SHEET

Project Site Name: NASJRB Willow Grove
Sample ID Number: UGWA-FB-20240320
Project Number: 112G08005-WE04 FI.5W
Sampled By: CS
Sample Location: SW-19
C.O.C. Number: N/A
QA Sample Type:

[] Trip Blank
[] Rinsate Blank
[] Source Water Blank
[X] Other Blank Field Blank

SAMPLING DATA:		WATER SOURCE:	
Date:	3/20/24	[X] Laboratory Prepared	[] Tap
Time:	0900	[] Purchased	[] Fire Hydrant
Method:	Grab	[] Other	

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):		RINSATE INFORMATION (If Applicable):	
Product Name:	N/A	Media Type:	N/A
Supplier:		Equipment Used:	
Manufacturer:		Equipment Type:	
Order Number:		[] Dedicated	
Lot Number:		[] Reusable	
Expiration Date:			

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PFAS 16,33	Cool 4°C	500mL HDPE x 2	(YES) NO

OBSERVATIONS / NOTES:

Signature(s):

APPENDIX B
USGS STREAMFLOW MEASUREMENTS
MARCH 2024

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Appendix B
Streamflow Measurements - March 2024

Stream sites as named by USGS and Tetratech/Navy, near Willow Grove NAS and NAWC Warminster - list prepared by USGS as of March 29, 2022						March 2024 Flow Data			
TETRA TECH/NAVY SITE NAME	**Tetratech LON**	**Tetratech LAT**	**USGS SiteID**	**USGS Site name**	**Stream site description**	**ft^3/s**	**Date Collected**	**ft^3/s**	**Date Collected**
Sites with USGS siteID and flow measurements									
LITTLE NESHAMINY REF1	-75.158141	40.227277	01464798	L Neshaminy Cr bl Bradford Res Dam nr WarminsterPA	SW-29/Little Nesh REF1* (below dam in Bradford Reservoir Recreation Area, accessed off Bradford Rd)	NA	NA		
NESHAMINY REF1	-75.034656	40.260226	01464750	Neshaminy Creek near Rushland, PA	Neshaminy REF 1 (USGS gage 01464750, Neshaminy Crk near Rushland)	NA	NA		
NESHAMINY REF2	-75.025628	40.259147	01465098	Mill Creek at Swamp Rd (REF-2) at Rushland, PA	Neshaminy REF 2* (Mill Crk at Swamp Rd - downstream of bridge)	NA	NA		
NESHAMINY REF3	-74.938188	40.221981	01465304	Newtown Cr bl Barclay St at Newtown, PA	Neshaminy REF 3* (Newtown Crk at Barclay Rd in Newtown - downstream of bridge)	NA	NA		
PARK CREEK REF1	-75.185455	40.201625	01464881	Park Cr bl Limekiln Pike at Prospectville, PA	Park REF1 * (trib to Park Creek at Limekiln Rd)	NA	NA		
PARK CREEK REF2	-75.188308	40.200186	01464880	Unnamed Trib to Park Creek at Prospectville, PA	Park REF2 * (trib to Park Creek at McKean Rd)	NA	NA		
PENNYPACK REF1	-75.117727	40.162821	01467037	Unnamed Trib to Pennypack Cr at Willow Grove, PA	Pennypack REF 1* (Mill Creek at Mill Creek Park)	NA	NA		
PENNYPACK REF2	-75.111322	40.194766	01467035	Middle Br Pennypack Cr Trib at Warminster, PA	Pennypack REF 2* (Trib to Pennypack Creek at County Line Rd near Hidden Woods Lane)	NA	NA		
SW/SED-01	-75.152616	40.200830	401203075090901	Outfall 6	SW-1* (outfall 6A on base) (measure flow w/flume)	0.07	3/20/2024		
SW/SED-03	-75.154306	40.196971	01464887	UT to Park Cr (SW-3) at Dawes Rd nr Horsham, PA	SW-3* (outflow 5 below pond on base)	0.24	3/20/2024		
SW/SED-05	-75.170484	40.210407	01464890	Unnamed Trib to Park Creek near Warminster, PA	SW-5* (trib to Park Creek downstream of Davis Grove Rd)	2.91	3/20/2024		
SW/SED-08A	-75.174019	40.207319	01464883	Park Creek at Deep Meadow Park nr Warminster, PA	SW-08A near Deep Meadow Park is upstream of SW-10, downstream of Park Crk REF1	NA	NA		
SW/SED-10	-75.170893	40.210483	01464885	Park Creek near Warminster, PA	SW-10* (Park Creek downstream of Davis Grove Rd)	8.51	3/20/2024		
SW/SED-14	-75.159978	40.216267	01464895	Park Creek ab Horsham Wastewater nr Warminster, PA	SW-14* (Park Crk upstream of sewer plant, access across from Envirogreen; new staff plate in 2020)	11.2	3/20/2024		
SW/SED-16	-75.156960	40.217374	014648955	Park Cr (SW-16) bl Keith Vly Rd at Warminster, PA	SW-16* (Park Creek downstream of bridge on Keith Valley Rd)	NA	NA		
SW/SED-17	-75.154092	40.218289	014648957	Park Cr US from UT (SW-17) at Neshaminy, PA	SW-17* (Park Creek just upstream of GraemePark trib)	12.4	3/20/2024		
SW/SED-19	-75.151617	40.219513	01464899	Park Cr (SW-19) at Countyline Rd at Warminster, PA	SW-19* (Park Creek at County Line Rd; new gage in 2020)	14.5	3/19/2024	13.4	3/19/2024
SW/SED-20	-75.144800	40.223374	01464900	Park Creek near Warrington, PA	SW-20* (Park Crk just before confluence with Little Neshaminy Creek at Kansas Rd)	9.83	3/19/2024		
SW/SED-26	-75.150402	40.212520	01464897	UT to Park Creek at Graeme Park nr Warminster, PA	SW-26* (trib to Park Crk, access from Graeme State Park, below outflow from Horsham ANG	NA	NA		
SW/SED-27	-75.152951	40.216751	01464898	UT to Park Cr (SW-26) bl Willow Grove NAS, PA	SW-27* (trib to Park Creek, near footbridge in Graeme State Park)	NA	NA		
SW/SED-28	-75.153834	40.218199	014648985	UT at mouth (SW-28) bl Willow Grove NAS, PA	SW-28* (mouth of trib to Park Creek, access from Graeme State Park; new staff plate in 2020)	0.74	3/20/2024		
SW/SED-30	-75.144836	40.223895	01464800	Little Neshaminy Creek at Neshaminy, PA	SW-30* (Little Neshaminy Crk at Neshaminy, below bridge at Kansas Rd)	8.30	3/19/2024		
SW/SED-31	-75.144225	40.222960	--	Site name TBD	SW-31 below confluence of Park Crk and Little Neshaminy Crk	NA	NA		
SW/SED-31A	-75.142500	40.222500	014649003	L Neshaminy Cr(SW-31A) abv Rt 611 at Neshaminy, PA	SW-31A below confluence of Park Crk and Little Neshaminy Crk; L Neshaminy Cr (SW-31A) abv Rt 611 at Neshaminy, PA.	NA	NA		
SW/SED-33	-75.134280	40.224660	014649015	Little Neshaminy Cr (SW-33), Paul Vly Rd	SW-33* (Little Neshaminy Creek on Paul Valley Road)	23.3	3/19/2024		
SW/SED-34A	-75.130958	40.224365	01464905	L Neshaminy Creek at Neshaminy, PA	SW-34A* (Little Neshaminy Crk at Street Rd)	25.7	3/20/2024		
SW/SED-36	-75.119791	40.228776	01464907	Little Neshaminy C at Valley Road nr Neshaminy PA	SW-36** (USGS gage 01464907, Little Neshaminy Crk at Valley Rd)	NA	NA		
SW/SED-36A	-75.102292	40.232784	01464915	L Neshaminy Cr at Bristol Rd at Hartsville, PA	SW-36A* (Little Neshaminy Creek at W. Bristol Road near Meetinghouse Road)	42.1	3/19/2024		
SW/SED-41	-75.136356	40.221942	01464902	UT to Little Neshaminy Creek at Warminster, PA	SW-41* (northern trib to Little Neshaminy Crk near Walmart)	1.23	3/19/2024		
SW/SED-42	-75.134103	40.223628	01464903	UT ab conf w L Neshaminy C(SW-42) at Warminster, PA	SW-42* (mouth of northern trib to Little Neshaminy Crk below bridge at Paul Valley Drive)	0.90	3/19/2024		
SW/SED-45	-75.144440	40.187152	014670305	UT Pennypack C at Horsham Rd at Horsham, PA	SW-45* (Pennypack Creek at Wawa on Horsham Rd near Norristown Rd)	0.84	3/18/2024		
SW/SED-46	-75.147430	40.181365	014670307	UT to Pennypack C (SW-46) at LogPond Dr at Horsham	SW-46* (Pennypack Creek at Log Pond Dr)	0.39	3/18/2024		
SW/SED-47	-75.141475	40.178861	14670308	Pennypack Cr (SW-47) at Sawmill Ln nr Horsham, PA	SW-47 (Pennypack Creek at Sawmill Lane)	2.97	3/18/2024		
SW/SED-48	-75.149436	40.179940	014670302	Pennypack C (SW-48) at Sawyers Way at Horsham, PA	SW-48* (Pennypack Creek at Sawyers Way)	1.93	3/18/2024		
SW/SED-52	-75.159080	40.206671	401224075093301	Outfall7A	SW-52 (outfall 7 on base) (measure flow w/flume)	NA	NA		
SW/SED-56	-75.122226	40.177402	01467031	Pennypack Creek at Horsham, PA	SW-56* (Pennypack Creek at Blair Mill Road; new staff in 2021)	220	3/18/2024		
SW/SED-63	-75.165684	40.212693	01464894	Park Cr (SW-63) at Willow Grove NAS, PA	SW-63* (Park Creek across from Ametek)	8.78	3/20/2024		
SW/SED-64	-75.166659	40.200522	01464888	UT to Park Cr (SW-64) at Horsham Rd nr Horsham, PA	SW-64 * (trib to Park Creek at Horsham Rd)	0.52	3/20/2024		
SW/SED-67	-75.07155919	40.23344136	01464930	Unnamed Trib to L Neshaminy Creek at Traymore, PA	SW-67* (Unnamed trib to Little Neshaminy Crk, below bridge at Creek Rd, downstream of Log College STP	NA	NA		
SW/SED-69	-75.111345	40.181605	014670349	EB UT (SW-69) to Pennypack C at Hatboro, PA	SW-69* (eastern branch, upstream of USGS site 01467036 Pennypack Crk trib at Hatboro)	NA	NA		
SW/SED-70	-75.111703	40.181758	014670357	WB UT (SW-70) to Pennypack C at Hatboro, PA	SW-70* (western branch, upstream of USGS site 01467036 Pennypack Crk trib at Hatboro)	NA	NA		

Appendix B
Streamflow Measurements - March 2024

Stream sites as named by USGS and Tetratech/Navy, near Willow Grove NAS and NAWC Warminster - list prepared by USGS as of March 29, 2022						March 2024 Flow Data			
TETRA TECH/NAVY SITE NAME	**Tetratech LON**	**Tetratech LAT**	**USGS SiteID**	**USGS Site name**	**Stream site description**	**ft^3/s**	**Date Collected**	**ft^3/s**	**Date Collected**
SW/SED-71	-75.033912	40.255555	01464990	Little Neshaminy Creek at Rushland, PA	SW-71* [previously ANG SW-33] (Little Neshaminy Crk at Rushland, upstream of Sackettsford bridge)	NA	NA		
Sites that do not have USGS siteID or flow measurements									
SW/SED-04	-75.155030	40.202542	--	USGS did not measure, no site name	unnamed trib to Park Creek along Babylon Rd	NA	NA		
SW/SED-39A	-75.135322	40.209209	--	USGS did not measure, no site name	unnamed trib to Little Neshaminy Creek downstream of Outfall 14	NA	NA		
SW/SED-49	-75.148876	40.185420	--	USGS did not measure, no site name	trib to Pennypack at Forrester Rd near well 26	NA	NA		
SW/SED-51	-75.158617	40.211478	--	USGS did not measure, no site name	SW-51* (outfall 8 on base)	NA	NA		
SW/SED-53	-75.148983	40.189983	--	USGS did not measure, no site name	trib to Pennypack Creek at base boundary, Horsham Rd	NA	NA		
SW/SED-54	-75.149876	40.187230	--	USGS did not measure, no site name	trib to Pennypack Creek at Greenwoods Dr near well 26	NA	NA		
SW/SED-57	-75.139642	40.204930	--	USGS did not measure, no site name	unnamed trib to Little Neshaminy Creek from Outfall 14	NA	NA		
Notes:									
Streamflow measurements were downloaded from the USGS National Water Information System Web Interface on April 3, 2024.									
NA-Data was not collected the day that the surface water sample was collected									

APPENDIX C
DATA VALIDATION REPORTS

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TETRA TECH

INTERNAL CORRESPONDENCE

TO: **S. MITCHELL** **DATE:** **MAY 21, 2024**

FROM: **GLORIA SCHIFINO** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –POLYFLUOROALKYL SUBSTANCES (PFAS)**
NAVAL AIR STATION JOINT RESERVE BASE (NASJRB) WILLOW GROVE
WILLOW GROVE, PENNSYLVANIA
SAMPLE DELIVERY GROUP (SDG) 24-0204

SAMPLES: 10/Aqueous/PFAS

WGNA-FB-20240318	WGNA-SW-45-20240318
WGNA-SW-46-20240318	WGNA-SW-47-20240318
WGNA-SW-48-20240318	WGNA-SW-49-20240318
WGNA-SW-54-20240318	WGNA-SW-56-20240318
WGNA-SW-DUP-01-20240318	WGNA-SW-NCREF4-20240318

Overview

The sample set for NAS JRB Willow Grove, SDG 24-0204, consisted of nine (9) aqueous samples and one (1) field blank. All ten (10) samples were analyzed for PFAS. One field duplicate pair was included in this SDG: WGNA-SW-DUP-01-20240318/ WGNA-SW-56-20240318.

The samples were collected by Tetra Tech, Inc. on March 18, 2024 and analyzed by Battelle Norwell Operations. All sample analyses were conducted in accordance EPA Method 1633 analytical and reporting protocols.

The data contained in this SDG was validated via 90% EPA stage 2B and 10% stage 4 with regard to the following parameters: data completeness, sample preservation and holding times, mass calibration, LC/MS/MS system tuning and performance, mass spectral acquisition rate, instrument sensitivity check, ion transition check, initial/continuing calibrations, laboratory method/preparation and field blank results, extracted internal standard recoveries, laboratory control sample results, matrix spike/ matrix spike duplicate results, ion ratio results, field duplicate precision, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

Minor

Detected results reported below the Limit of Quantitation (LOQ) but above the Detection Limit (DL) were qualified as estimated, (J).

Notes

Non-detected results were reported to the Limit of Detection (LOD).

The result for perfluorooctanoic acid (PFOA) was checked and verified for sample WGNA-SW-NCREF4-20240104. The surrogate percent recovery for 13C8- PFOA was checked in this sample.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the Department of Defense (DOD) documents entitled “Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis be QSM Table B24” (October 18, 2022). The text of this report has been formulated to address only those areas affecting data quality.

Gloria Schifino

Tetra Tech, Inc.
Gloria Schifino
Chemist/Data Validator

Joseph A. Samchuck

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Validation Qualifier (VQL) Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UX	The sample results (non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.
X	The sample results (detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Tetra Tech Qualifier Code (QLCD) :

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc. > control limit)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery and/or MS/MSD RPD outside control limit
E	=	LCS/LCSD Recovery and/or LCS/LCSD RPD outside control limit
F	=	Lab Duplicate Imprecision (RPD > control limit)
G	=	Field Duplicate Imprecision (RPD > control limit)
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's r < 0.995
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient r < 0.995
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 standard deviations is greater than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed
Z3	=	Tentatively Identified Compound Aldol condensate

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240318			WGNA-SW-45-20240318			WGNA-SW-46-20240318			WGNA-SW-47-20240318		
SDG: 24-0204	LAB_ID	C2669-FS			C2675-FS			C2674-FS			C2672-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024			3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.22	U		2.12	U		2.34	U		2.11	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.95	U		2.83	U		3.12	U		2.8	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.35	U		3.22	U		3.55	U		3.19	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.39	U		3.26	U		3.59	U		3.23	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.41	U		1.35	U		1.49	U		1.34	U	
4:2 FLUOROTELOMER SULFONATE		2.68	U		2.57	U		2.84	U		2.55	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.07	U		8.69	U		9.59	U		8.63	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		3.01	U		2.78	J	P	1.76	J	P	2.86	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.6	U		10.2	U		11.2	U		10.1	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.86	U		1.79	U		1.97	U		1.77	U	
9CL-PF3ONS		1.42	U		1.36	U		1.5	U		1.35	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.52	U		1.46	U		1.61	U		1.45	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.203	U		0.195	U		0.215	U		0.193	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.16	U		1.11	U		1.23	U		1.1	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.404	U		0.388	U		0.428	U		0.385	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.33	U		1.28	U		1.41	U		1.27	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.54	U		1.48	U		1.63	U		1.47	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		0.589	U		146			174			31.8		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.431	U		0.413	U		0.456	U		0.41	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.28	U		1.22	U		1.35	U		1.21	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.22	U		1.17	U		1.29	U		1.16	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-48-20240318			WGNA-SW-49-20240318			WGNA-SW-54-20240318			WGNA-SW-56-20240318		
SDG: 24-0204	LAB_ID	C2673-FS			C2676-FS			C2677-FS			C2671-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024			3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.16	U		2.11	U		2.03	U		2.22	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.87	U		2.81	U		2.7	U		2.95	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.27	U		3.2	U		3.07	U		3.36	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.31	U		3.24	U		3.11	U		3.4	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.37	U		1.34	U		1.29	U		1.41	U	
4:2 FLUOROTELOMER SULFONATE		2.61	U		2.56	U		2.46	U		2.69	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		8.83	U		8.64	U		8.31	U		9.08	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		2.93	U		6.91			12.6			3.01	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.3	U		10.1	U		9.72	U		10.6	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.81	U		1.78	U		1.71	U		1.87	U	
9CL-PF3ONS		1.38	U		1.35	U		1.3	U		1.42	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.48	U		1.45	U		1.39	U		1.52	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.198	U		0.193	U		0.186	U		0.203	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.13	U		1.11	U		1.06	U		1.16	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.394	U		0.386	U		0.371	U		0.405	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.3	U		1.27	U		1.22	U		1.33	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.5	U		1.47	U		1.42	U		1.55	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		7.56			327			319			24.5		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.42	U		0.411	U		0.395	U		0.432	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.24	U		1.22	U		1.17	U		1.28	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.19	U		1.16	U		1.12	U		1.22	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-DUP-01-20240318			WGNA-SW-NCREF4-20240318		
SDG: 24-0204	LAB_ID	C2678-FS			C2670-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	WGNA-SW-56-20240318					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.33	U		2.22	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		3.1	U		2.96	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.53	U		3.37	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.57	U		3.41	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.48	U		1.42	U	
4:2 FLUOROTELOMER SULFONATE		2.82	U		2.69	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.53	U		9.1	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		3.16	U		3.02	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		11.2	U		10.7	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.96	U		1.87	U	
9CL-PF3ONS		1.49	U		1.43	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.6	U		1.53	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.213	U		0.204	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.22	U		1.17	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.425	U		0.406	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.4	U		1.34	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.62	U		1.55	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		23.3			10.4		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.453	U		0.433	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.34	U		1.28	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.28	U		1.22	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240318			WGNA-SW-45-20240318			WGNA-SW-46-20240318			WGNA-SW-47-20240318		
SDG: 24-0204	LAB_ID	C2669-FS			C2675-FS			C2674-FS			C2672-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024			3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		0.36	U		17.1			25.4			9.97		
PERFLUOROBUTANOIC ACID (PFBA)		1.21	U		22.6			19.9			5.41	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.329	U		0.316	U		0.348	U		0.313	U	
PERFLUORODECANOIC ACID (PFDA)		0.453	U		1.03	J	P	1.06	J	P	0.431	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.366	U		0.351	U		0.387	U		0.348	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.612	U		0.587	U		0.647	U		0.582	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.415	U		7.58			8.57			1.39	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		0.352	U		11.6			14.9			4.34		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		0.591	U		151			204			34.6		
PERFLUOROHEXANOIC ACID (PFHXA)		0.837	U		41.6			43.8			9.75		
PERFLUORONONANESULFONIC ACID (PFNS)		0.506	U		0.485	U		0.535	U		0.482	U	
PERFLUORONONANOIC ACID (PFNA)		0.508	U		4.36			4.9			1.84		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.382	U		0.366	U		0.404	U		0.364	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		0.504	U		528			492			67		
PERFLUOROPENTANESULFONIC ACID (PFPES)		0.262	U		18.3			24.2			4.38		
PERFLUOROPENTANOIC ACID (PFPEA)		1.14	U		44.9			40.3			7.75		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.872	U		0.836	U		0.923	U		0.83	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.738	U		0.708	U		0.781	U		0.702	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.413	U		0.396	U		0.437	U		0.393	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-48-20240318			WGNA-SW-49-20240318			WGNA-SW-54-20240318			WGNA-SW-56-20240318		
SDG: 24-0204	LAB_ID	C2673-FS			C2676-FS			C2677-FS			C2671-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024			3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		5.47			112			131			8.67		
PERFLUOROBUTANOIC ACID (PFBA)		2.71	J	P	33.8			32.4			6.2	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.321	U		0.314	U		0.302	U		0.33	U	
PERFLUORODECANOIC ACID (PFDA)		0.442	U		1.88			1.92			0.454	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.356	U		0.349	U		0.335	U		0.367	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.596	U		0.583	U		0.561	U		0.613	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.404	U		36.5			38.7			0.969	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		1.77			36.1			38.9			4.33		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		2.06			1120			1240			26.9		
PERFLUOROHEXANOIC ACID (PFHXA)		2.81			125			131			8.03		
PERFLUORONONANESULFONIC ACID (PFNS)		0.493	U		0.483	U		0.464	U		0.507	U	
PERFLUORONONANOIC ACID (PFNA)		1.57	J	P	14.8			13.6			2.02		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.372	U		0.364	U		0.35	U		0.383	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		4.94			1860			2090			47.8		
PERFLUOROPENTANESULFONIC ACID (PFPES)		0.333	J	P	151			157			3.42		
PERFLUOROPENTANOIC ACID (PFPEA)		2.24	J	P	68.7			72.7			7.5		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.85	U		0.831	U		0.799	U		0.874	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.719	U		0.703	U		0.676	U		0.739	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.402	U		0.393	U		0.378	U		0.413	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-DUP-01-20240318			WGNA-SW-NCREF4-20240318		
SDG: 24-0204	LAB_ID	C2678-FS			C2670-FS		
FRACTION: PFAS	SAMP_DATE	3/18/2024			3/18/2024		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	WGNA-SW-56-20240318					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		9.09			5.57		
PERFLUOROBUTANOIC ACID (PFBA)		5.88	J	P	4.71	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.346	U		0.331	U	
PERFLUORODECANOIC ACID (PFDA)		0.476	U		0.455	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.385	U		0.367	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.643	U		0.614	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.981	J	P	0.341	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		4.03			3.12		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		25.2			8.09		
PERFLUOROHEXANOIC ACID (PFHXA)		8.37			7.34		
PERFLUORONONANESULFONIC ACID (PFNS)		0.532	U		0.508	U	
PERFLUORONONANOIC ACID (PFNA)		2.23			1.68		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.402	U		0.384	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		45.9			15.2		
PERFLUOROPENTANESULFONIC ACID (PFPES)		3.57			1.01	J	P
PERFLUOROPENTANOIC ACID (PFPEA)		7.59			6.34		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.917	U		0.876	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.776	U		0.741	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.434	U		0.414	U	

Appendix B

Results as Reported by the Laboratory

BATTELLE
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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240318
Battelle ID	C2669-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	QC
Sample Size	0.492
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.21 U	C2669-FS(0)	1.000	3/21/2024	0.607	1.21	6.50
PFPeA	2706-90-3	1.14 U	C2669-FS(0)	1.000	3/21/2024	0.572	1.14	3.25
PFHxA	307-24-4	0.837 U	C2669-FS(0)	1.000	3/21/2024	0.419	0.837	1.63
PFHpA	375-85-9	0.352 U	C2669-FS(0)	1.000	3/21/2024	0.176	0.352	1.63
PFOA	335-67-1	0.589 U	C2669-FS(0)	1.000	3/21/2024	0.295	0.589	1.63
PFNA	375-95-1	0.508 U	C2669-FS(0)	1.000	3/21/2024	0.254	0.508	1.63
PFDA	335-76-2	0.453 U	C2669-FS(0)	1.000	3/21/2024	0.227	0.453	1.63
PFUnA	2058-94-8	0.413 U	C2669-FS(0)	1.000	3/21/2024	0.206	0.413	1.63
PFDoA	307-55-1	0.612 U	C2669-FS(0)	1.000	3/21/2024	0.306	0.612	1.63
PFTrDA	72629-94-8	0.738 U	C2669-FS(0)	1.000	3/21/2024	0.369	0.738	1.63
PFTeDA	376-06-7	0.872 U	C2669-FS(0)	1.000	3/21/2024	0.436	0.872	1.63
PFBS	375-73-5	0.360 U	C2669-FS(0)	1.000	3/21/2024	0.180	0.360	1.63
PFPeS	2706-91-4	0.262 U	C2669-FS(0)	1.000	3/21/2024	0.131	0.262	1.63
PFHxS	355-46-4	0.591 U	C2669-FS(0)	1.000	3/21/2024	0.296	0.591	1.63
PFHpS	375-92-8	0.415 U	C2669-FS(0)	1.000	3/21/2024	0.207	0.415	1.63
PFOS	1763-23-1	0.504 U	C2669-FS(0)	1.000	3/21/2024	0.252	0.504	1.63
PFNS	68259-12-1	0.506 U	C2669-FS(0)	1.000	3/21/2024	0.253	0.506	1.63
PFDS	335-77-3	0.329 U	C2669-FS(0)	1.000	3/21/2024	0.165	0.329	1.63
PFDoS	79780-39-5	0.366 U	C2669-FS(0)	1.000	3/21/2024	0.183	0.366	1.63
4:2FTS	757124-72-4	2.68 U	C2669-FS(0)	1.000	3/21/2024	1.34	2.68	6.50
6:2FTS	27619-97-2	3.01 U	C2669-FS(0)	1.000	3/21/2024	1.50	3.01	6.50
8:2FTS	39108-34-4	1.86 U	C2669-FS(0)	1.000	3/21/2024	0.931	1.86	6.50
PFOSA	754-91-6	0.382 U	C2669-FS(0)	1.000	3/21/2024	0.191	0.382	1.63
NMeFOSA	31506-32-8	0.404 U	C2669-FS(0)	1.000	3/21/2024	0.202	0.404	1.63
NEtFOSA	4151-50-2	0.203 U	C2669-FS(0)	1.000	3/21/2024	0.101	0.203	1.63
NMeFOSAA	2355-31-9	1.33 U	C2669-FS(0)	1.000	3/21/2024	0.666	1.33	1.63
NEtFOSAA	2991-50-6	1.16 U	C2669-FS(0)	1.000	3/21/2024	0.580	1.16	1.63
NMeFOSE	24448-09-7	3.35 U	C2669-FS(0)	1.000	3/21/2024	1.68	3.35	16.3
NEtFOSE	1691-99-2	2.95 U	C2669-FS(0)	1.000	3/21/2024	1.47	2.95	16.3
HFPO-DA	13252-13-6	1.52 U	C2669-FS(0)	1.000	3/21/2024	0.760	1.52	6.50
Adona	919005-14-4	1.41 U	C2669-FS(0)	1.000	3/21/2024	0.705	1.41	6.50
PFMPA	377-73-1	1.28 U	C2669-FS(0)	1.000	3/21/2024	0.638	1.28	3.25
PFMBA	863090-89-5	1.22 U	C2669-FS(0)	1.000	3/21/2024	0.610	1.22	3.25
NFDHA	151772-58-6	1.54 U	C2669-FS(0)	1.000	3/21/2024	0.772	1.54	3.25
9Cl-PF3ONS	756426-58-1	1.42 U	C2669-FS(0)	1.000	3/21/2024	0.710	1.42	6.50
11Cl-PF3OUdS	763051-92-9	2.22 U	C2669-FS(0)	1.000	3/21/2024	1.11	2.22	6.50
PFEESA	113507-82-7	0.431 U	C2669-FS(0)	1.000	3/21/2024	0.215	0.431	3.25
3:3 FTCA	356-02-5	3.39 U	C2669-FS(0)	1.000	3/21/2024	1.70	3.39	8.13
5:3 FTCA	914637-49-3	9.07 U	C2669-FS(0)	1.000	3/21/2024	4.53	9.07	40.7
7:3 FTCA	812-70-4	10.6 U	C2669-FS(0)	1.000	3/21/2024	5.30	10.6	40.7

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240318
Battelle ID	C2669-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	94	C2669-FS(0)	3/21/2024
13C5-PFPeA	87	C2669-FS(0)	3/21/2024
13C5-PFHxA	93	C2669-FS(0)	3/21/2024
13C4-PFHpA	94	C2669-FS(0)	3/21/2024
13C8-PFOA	94	C2669-FS(0)	3/21/2024
13C9-PFNA	92	C2669-FS(0)	3/21/2024
13C6-PFDA	95	C2669-FS(0)	3/21/2024
13C7-PFUnA	94	C2669-FS(0)	3/21/2024
13C2-PFDoA	98	C2669-FS(0)	3/21/2024
13C2-PFTeDA	72	C2669-FS(0)	3/21/2024
13C3-PFBS	93	C2669-FS(0)	3/21/2024
13C3-PFHxS	89	C2669-FS(0)	3/21/2024
13C8-PFOS	91	C2669-FS(0)	3/21/2024
13C2-4:2FTS	116	C2669-FS(0)	3/21/2024
13C2-6:2FTS	108	C2669-FS(0)	3/21/2024
13C2-8:2FTS	96	C2669-FS(0)	3/21/2024
13C8-PFOSA	88	C2669-FS(0)	3/21/2024
d3-MeFOSA	68	C2669-FS(0)	3/21/2024
d5-EtFOSA	66	C2669-FS(0)	3/21/2024
d3-MeFOSAA	98	C2669-FS(0)	3/21/2024
d5-EtFOSAA	94	C2669-FS(0)	3/21/2024
d7-MeFOSE	86	C2669-FS(0)	3/21/2024
d9-EtFOSE	77	C2669-FS(0)	3/21/2024
13C3-HFPO-DA	93	C2669-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	82	C2669-FS(0)	3/21/2024
13C2-PFHxA	82	C2669-FS(0)	3/21/2024
13C4-PFOA	77	C2669-FS(0)	3/21/2024
13C5-PFNA	75	C2669-FS(0)	3/21/2024
13C2-PFDA	70	C2669-FS(0)	3/21/2024
18O2-PFHxS	84	C2669-FS(0)	3/21/2024
13C4-PFOS	74	C2669-FS(0)	3/21/2024

BATTELLE
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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-NCREF4-20240318
Battelle ID	C2670-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.490
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.71 J	C2670-FS(0)	1.000	3/21/2024	0.609	1.22	6.53
PFPeA	2706-90-3	6.34	C2670-FS(0)	1.000	3/21/2024	0.574	1.15	3.27
PFHxA	307-24-4	7.34	C2670-FS(0)	1.000	3/21/2024	0.420	0.841	1.63
PFHpA	375-85-9	3.12	C2670-FS(0)	1.000	3/21/2024	0.177	0.353	1.63
PFOA	335-67-1	10.4	C2670-FS(0)	1.000	3/21/2024	0.296	0.592	1.63
PFNA	375-95-1	1.68	C2670-FS(0)	1.000	3/21/2024	0.255	0.510	1.63
PFDA	335-76-2	0.455 U	C2670-FS(0)	1.000	3/21/2024	0.228	0.455	1.63
PFUnA	2058-94-8	0.414 U	C2670-FS(0)	1.000	3/21/2024	0.207	0.414	1.63
PFDoA	307-55-1	0.614 U	C2670-FS(0)	1.000	3/21/2024	0.307	0.614	1.63
PFTrDA	72629-94-8	0.741 U	C2670-FS(0)	1.000	3/21/2024	0.370	0.741	1.63
PFTeDA	376-06-7	0.876 U	C2670-FS(0)	1.000	3/21/2024	0.438	0.876	1.63
PFBS	375-73-5	5.57	C2670-FS(0)	1.000	3/21/2024	0.181	0.361	1.63
PFPeS	2706-91-4	1.01 J	C2670-FS(0)	1.000	3/21/2024	0.132	0.263	1.63
PFHxS	355-46-4	8.09	C2670-FS(0)	1.000	3/21/2024	0.297	0.594	1.63
PFHpS	375-92-8	0.341 J	C2670-FS(0)	1.000	3/21/2024	0.208	0.416	1.63
PFOS	1763-23-1	15.2	C2670-FS(0)	1.000	3/21/2024	0.253	0.506	1.63
PFNS	68259-12-1	0.508 U	C2670-FS(0)	1.000	3/21/2024	0.254	0.508	1.63
PFDS	335-77-3	0.331 U	C2670-FS(0)	1.000	3/21/2024	0.165	0.331	1.63
PFDoS	79780-39-5	0.367 U	C2670-FS(0)	1.000	3/21/2024	0.184	0.367	1.63
4:2FTS	757124-72-4	2.69 U	C2670-FS(0)	1.000	3/21/2024	1.35	2.69	6.53
6:2FTS	27619-97-2	3.02 U	C2670-FS(0)	1.000	3/21/2024	1.51	3.02	6.53
8:2FTS	39108-34-4	1.87 U	C2670-FS(0)	1.000	3/21/2024	0.935	1.87	6.53
PFOSA	754-91-6	0.384 U	C2670-FS(0)	1.000	3/21/2024	0.192	0.384	1.63
NMeFOSA	31506-32-8	0.406 U	C2670-FS(0)	1.000	3/21/2024	0.203	0.406	1.63
NEtFOSA	4151-50-2	0.204 U	C2670-FS(0)	1.000	3/21/2024	0.102	0.204	1.63
NMeFOSAA	2355-31-9	1.34 U	C2670-FS(0)	1.000	3/21/2024	0.668	1.34	1.63
NEtFOSAA	2991-50-6	1.17 U	C2670-FS(0)	1.000	3/21/2024	0.583	1.17	1.63
NMeFOSE	24448-09-7	3.37 U	C2670-FS(0)	1.000	3/21/2024	1.68	3.37	16.3
NEtFOSE	1691-99-2	2.96 U	C2670-FS(0)	1.000	3/21/2024	1.48	2.96	16.3
HFPO-DA	13252-13-6	1.53 U	C2670-FS(0)	1.000	3/21/2024	0.763	1.53	6.53
Adona	919005-14-4	1.42 U	C2670-FS(0)	1.000	3/21/2024	0.708	1.42	6.53
PFMPA	377-73-1	1.28 U	C2670-FS(0)	1.000	3/21/2024	0.641	1.28	3.27
PFMBA	863090-89-5	1.22 U	C2670-FS(0)	1.000	3/21/2024	0.612	1.22	3.27
NFDHA	151772-58-6	1.55 U	C2670-FS(0)	1.000	3/21/2024	0.776	1.55	3.27
9Cl-PF3ONS	756426-58-1	1.43 U	C2670-FS(0)	1.000	3/21/2024	0.713	1.43	6.53
11Cl-PF3OUdS	763051-92-9	2.22 U	C2670-FS(0)	1.000	3/21/2024	1.11	2.22	6.53
PFEESA	113507-82-7	0.433 U	C2670-FS(0)	1.000	3/21/2024	0.216	0.433	3.27
3:3 FTCA	356-02-5	3.41 U	C2670-FS(0)	1.000	3/21/2024	1.70	3.41	8.16
5:3 FTCA	914637-49-3	9.10 U	C2670-FS(0)	1.000	3/21/2024	4.55	9.10	40.8
7:3 FTCA	812-70-4	10.7 U	C2670-FS(0)	1.000	3/21/2024	5.33	10.7	40.8

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-NCREF4-20240318
Battelle ID	C2670-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	65	C2670-FS(0)	3/21/2024
13C5-PFPeA	96	C2670-FS(0)	3/21/2024
13C5-PFHxA	91	C2670-FS(0)	3/21/2024
13C4-PFHpA	90	C2670-FS(0)	3/21/2024
13C8-PFOA	88	C2670-FS(0)	3/21/2024
13C9-PFNA	91	C2670-FS(0)	3/21/2024
13C6-PFDA	92	C2670-FS(0)	3/21/2024
13C7-PFUnA	88	C2670-FS(0)	3/21/2024
13C2-PFDoA	79	C2670-FS(0)	3/21/2024
13C2-PFTeDA	42	C2670-FS(0)	3/21/2024
13C3-PFBS	88	C2670-FS(0)	3/21/2024
13C3-PFHxS	92	C2670-FS(0)	3/21/2024
13C8-PFOS	94	C2670-FS(0)	3/21/2024
13C2-4:2FTS	113	C2670-FS(0)	3/21/2024
13C2-6:2FTS	117	C2670-FS(0)	3/21/2024
13C2-8:2FTS	99	C2670-FS(0)	3/21/2024
13C8-PFOSA	90	C2670-FS(0)	3/21/2024
d3-MeFOSA	82	C2670-FS(0)	3/21/2024
d5-EtFOSA	78	C2670-FS(0)	3/21/2024
d3-MeFOSAA	100	C2670-FS(0)	3/21/2024
d5-EtFOSAA	97	C2670-FS(0)	3/21/2024
d7-MeFOSE	70	C2670-FS(0)	3/21/2024
d9-EtFOSE	54	C2670-FS(0)	3/21/2024
13C3-HFPO-DA	99	C2670-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	82	C2670-FS(0)	3/21/2024
13C2-PFHxA	79	C2670-FS(0)	3/21/2024
13C4-PFOA	82	C2670-FS(0)	3/21/2024
13C5-PFNA	74	C2670-FS(0)	3/21/2024
13C2-PFDA	75	C2670-FS(0)	3/21/2024
18O2-PFHxS	80	C2670-FS(0)	3/21/2024
13C4-PFOS	74	C2670-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-56-20240318
Battelle ID	C2671-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.491
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	6.20 J	C2671-FS(0)	1.000	3/21/2024	0.608	1.22	6.52
PFPeA	2706-90-3	7.50	C2671-FS(0)	1.000	3/21/2024	0.573	1.15	3.26
PFHxA	307-24-4	8.03	C2671-FS(0)	1.000	3/21/2024	0.420	0.839	1.63
PFHpA	375-85-9	4.33	C2671-FS(0)	1.000	3/21/2024	0.176	0.352	1.63
PFOA	335-67-1	24.5	C2671-FS(0)	1.000	3/21/2024	0.295	0.591	1.63
PFNA	375-95-1	2.02	C2671-FS(0)	1.000	3/21/2024	0.255	0.509	1.63
PFDA	335-76-2	0.454 U	C2671-FS(0)	1.000	3/21/2024	0.227	0.454	1.63
PFUnA	2058-94-8	0.413 U	C2671-FS(0)	1.000	3/21/2024	0.207	0.413	1.63
PFDoA	307-55-1	0.613 U	C2671-FS(0)	1.000	3/21/2024	0.307	0.613	1.63
PFTrDA	72629-94-8	0.739 U	C2671-FS(0)	1.000	3/21/2024	0.370	0.739	1.63
PFTeDA	376-06-7	0.874 U	C2671-FS(0)	1.000	3/21/2024	0.437	0.874	1.63
PFBS	375-73-5	8.67	C2671-FS(0)	1.000	3/21/2024	0.180	0.360	1.63
PFPeS	2706-91-4	3.42	C2671-FS(0)	1.000	3/21/2024	0.131	0.263	1.63
PFHxS	355-46-4	26.9	C2671-FS(0)	1.000	3/21/2024	0.296	0.593	1.63
PFHpS	375-92-8	0.969 J	C2671-FS(0)	1.000	3/21/2024	0.208	0.415	1.63
PFOS	1763-23-1	47.8	C2671-FS(0)	1.000	3/21/2024	0.253	0.505	1.63
PFNS	68259-12-1	0.507 U	C2671-FS(0)	1.000	3/21/2024	0.254	0.507	1.63
PFDS	335-77-3	0.330 U	C2671-FS(0)	1.000	3/21/2024	0.165	0.330	1.63
PFDoS	79780-39-5	0.367 U	C2671-FS(0)	1.000	3/21/2024	0.183	0.367	1.63
4:2FTS	757124-72-4	2.69 U	C2671-FS(0)	1.000	3/21/2024	1.34	2.69	6.52
6:2FTS	27619-97-2	3.01 U	C2671-FS(0)	1.000	3/21/2024	1.51	3.01	6.52
8:2FTS	39108-34-4	1.87 U	C2671-FS(0)	1.000	3/21/2024	0.933	1.87	6.52
PFOSA	754-91-6	0.383 U	C2671-FS(0)	1.000	3/21/2024	0.191	0.383	1.63
NMeFOSA	31506-32-8	0.405 U	C2671-FS(0)	1.000	3/21/2024	0.203	0.405	1.63
NEtFOSA	4151-50-2	0.203 U	C2671-FS(0)	1.000	3/21/2024	0.102	0.203	1.63
NMeFOSAA	2355-31-9	1.33 U	C2671-FS(0)	1.000	3/21/2024	0.667	1.33	1.63
NEtFOSAA	2991-50-6	1.16 U	C2671-FS(0)	1.000	3/21/2024	0.581	1.16	1.63
NMeFOSE	24448-09-7	3.36 U	C2671-FS(0)	1.000	3/21/2024	1.68	3.36	16.3
NEtFOSE	1691-99-2	2.95 U	C2671-FS(0)	1.000	3/21/2024	1.48	2.95	16.3
HFPO-DA	13252-13-6	1.52 U	C2671-FS(0)	1.000	3/21/2024	0.762	1.52	6.52
Adona	919005-14-4	1.41 U	C2671-FS(0)	1.000	3/21/2024	0.707	1.41	6.52
PFMPA	377-73-1	1.28 U	C2671-FS(0)	1.000	3/21/2024	0.640	1.28	3.26
PFMBA	863090-89-5	1.22 U	C2671-FS(0)	1.000	3/21/2024	0.611	1.22	3.26
NFDHA	151772-58-6	1.55 U	C2671-FS(0)	1.000	3/21/2024	0.774	1.55	3.26
9Cl-PF3ONS	756426-58-1	1.42 U	C2671-FS(0)	1.000	3/21/2024	0.712	1.42	6.52
11Cl-PF3OUdS	763051-92-9	2.22 U	C2671-FS(0)	1.000	3/21/2024	1.11	2.22	6.52
PFEESA	113507-82-7	0.432 U	C2671-FS(0)	1.000	3/21/2024	0.216	0.432	3.26
3:3 FTCA	356-02-5	3.40 U	C2671-FS(0)	1.000	3/21/2024	1.70	3.40	8.15
5:3 FTCA	914637-49-3	9.08 U	C2671-FS(0)	1.000	3/21/2024	4.54	9.08	40.7
7:3 FTCA	812-70-4	10.6 U	C2671-FS(0)	1.000	3/21/2024	5.32	10.6	40.7

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-56-20240318
Battelle ID	C2671-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	84	C2671-FS(0)	3/21/2024
13C5-PFPeA	89	C2671-FS(0)	3/21/2024
13C5-PFHxA	83	C2671-FS(0)	3/21/2024
13C4-PFHpA	84	C2671-FS(0)	3/21/2024
13C8-PFOA	90	C2671-FS(0)	3/21/2024
13C9-PFNA	90	C2671-FS(0)	3/21/2024
13C6-PFDA	86	C2671-FS(0)	3/21/2024
13C7-PFUnA	82	C2671-FS(0)	3/21/2024
13C2-PFDoA	68	C2671-FS(0)	3/21/2024
13C2-PFTeDA	45	C2671-FS(0)	3/21/2024
13C3-PFBS	96	C2671-FS(0)	3/21/2024
13C3-PFHxS	87	C2671-FS(0)	3/21/2024
13C8-PFOS	87	C2671-FS(0)	3/21/2024
13C2-4:2FTS	114	C2671-FS(0)	3/21/2024
13C2-6:2FTS	104	C2671-FS(0)	3/21/2024
13C2-8:2FTS	103	C2671-FS(0)	3/21/2024
13C8-PFOSA	81	C2671-FS(0)	3/21/2024
d3-MeFOSA	64	C2671-FS(0)	3/21/2024
d5-EtFOSA	54	C2671-FS(0)	3/21/2024
d3-MeFOSAA	86	C2671-FS(0)	3/21/2024
d5-EtFOSAA	84	C2671-FS(0)	3/21/2024
d7-MeFOSE	61	C2671-FS(0)	3/21/2024
d9-EtFOSE	48	C2671-FS(0)	3/21/2024
13C3-HFPO-DA	88	C2671-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	81	C2671-FS(0)	3/21/2024
13C2-PFHxA	81	C2671-FS(0)	3/21/2024
13C4-PFOA	77	C2671-FS(0)	3/21/2024
13C5-PFNA	75	C2671-FS(0)	3/21/2024
13C2-PFDA	78	C2671-FS(0)	3/21/2024
18O2-PFHxS	81	C2671-FS(0)	3/21/2024
13C4-PFOS	80	C2671-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-47-20240318
Battelle ID	C2672-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.517
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	5.41 J	C2672-FS(0)	1.000	3/21/2024	0.577	1.15	6.19
PFPeA	2706-90-3	7.75	C2672-FS(0)	1.000	3/21/2024	0.544	1.09	3.09
PFHxA	307-24-4	9.75	C2672-FS(0)	1.000	3/21/2024	0.398	0.797	1.55
PFHpA	375-85-9	4.34	C2672-FS(0)	1.000	3/21/2024	0.167	0.335	1.55
PFOA	335-67-1	31.8	C2672-FS(0)	1.000	3/21/2024	0.280	0.561	1.55
PFNA	375-95-1	1.84	C2672-FS(0)	1.000	3/21/2024	0.242	0.484	1.55
PFDA	335-76-2	0.431 U	C2672-FS(0)	1.000	3/21/2024	0.216	0.431	1.55
PFUnA	2058-94-8	0.393 U	C2672-FS(0)	1.000	3/21/2024	0.196	0.393	1.55
PFDoA	307-55-1	0.582 U	C2672-FS(0)	1.000	3/21/2024	0.291	0.582	1.55
PFTrDA	72629-94-8	0.702 U	C2672-FS(0)	1.000	3/21/2024	0.351	0.702	1.55
PFTeDA	376-06-7	0.830 U	C2672-FS(0)	1.000	3/21/2024	0.415	0.830	1.55
PFBS	375-73-5	9.97	C2672-FS(0)	1.000	3/21/2024	0.171	0.342	1.55
PFPeS	2706-91-4	4.38	C2672-FS(0)	1.000	3/21/2024	0.125	0.250	1.55
PFHxS	355-46-4	34.6	C2672-FS(0)	1.000	3/21/2024	0.281	0.563	1.55
PFHpS	375-92-8	1.39 J	C2672-FS(0)	1.000	3/21/2024	0.197	0.395	1.55
PFOS	1763-23-1	67.0	C2672-FS(0)	1.000	3/21/2024	0.240	0.480	1.55
PFNS	68259-12-1	0.482 U	C2672-FS(0)	1.000	3/21/2024	0.241	0.482	1.55
PFDS	335-77-3	0.313 U	C2672-FS(0)	1.000	3/21/2024	0.157	0.313	1.55
PFDoS	79780-39-5	0.348 U	C2672-FS(0)	1.000	3/21/2024	0.174	0.348	1.55
4:2FTS	757124-72-4	2.55 U	C2672-FS(0)	1.000	3/21/2024	1.28	2.55	6.19
6:2FTS	27619-97-2	2.86 U	C2672-FS(0)	1.000	3/21/2024	1.43	2.86	6.19
8:2FTS	39108-34-4	1.77 U	C2672-FS(0)	1.000	3/21/2024	0.886	1.77	6.19
PFOSA	754-91-6	0.364 U	C2672-FS(0)	1.000	3/21/2024	0.182	0.364	1.55
NMeFOSA	31506-32-8	0.385 U	C2672-FS(0)	1.000	3/21/2024	0.192	0.385	1.55
NEtFOSA	4151-50-2	0.193 U	C2672-FS(0)	1.000	3/21/2024	0.0965	0.193	1.55
NMeFOSAA	2355-31-9	1.27 U	C2672-FS(0)	1.000	3/21/2024	0.633	1.27	1.55
NEtFOSAA	2991-50-6	1.10 U	C2672-FS(0)	1.000	3/21/2024	0.552	1.10	1.55
NMeFOSE	24448-09-7	3.19 U	C2672-FS(0)	1.000	3/21/2024	1.60	3.19	15.5
NEtFOSE	1691-99-2	2.80 U	C2672-FS(0)	1.000	3/21/2024	1.40	2.80	15.5
HFPO-DA	13252-13-6	1.45 U	C2672-FS(0)	1.000	3/21/2024	0.723	1.45	6.19
Adona	919005-14-4	1.34 U	C2672-FS(0)	1.000	3/21/2024	0.671	1.34	6.19
PFMPA	377-73-1	1.21 U	C2672-FS(0)	1.000	3/21/2024	0.607	1.21	3.09
PFMBA	863090-89-5	1.16 U	C2672-FS(0)	1.000	3/21/2024	0.580	1.16	3.09
NFDHA	151772-58-6	1.47 U	C2672-FS(0)	1.000	3/21/2024	0.735	1.47	3.09
9Cl-PF3ONS	756426-58-1	1.35 U	C2672-FS(0)	1.000	3/21/2024	0.676	1.35	6.19
11Cl-PF3OUdS	763051-92-9	2.11 U	C2672-FS(0)	1.000	3/21/2024	1.05	2.11	6.19
PFEESA	113507-82-7	0.410 U	C2672-FS(0)	1.000	3/21/2024	0.205	0.410	3.09
3:3 FTCA	356-02-5	3.23 U	C2672-FS(0)	1.000	3/21/2024	1.62	3.23	7.74
5:3 FTCA	914637-49-3	8.63 U	C2672-FS(0)	1.000	3/21/2024	4.31	8.63	38.7
7:3 FTCA	812-70-4	10.1 U	C2672-FS(0)	1.000	3/21/2024	5.05	10.1	38.7

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-47-20240318
Battelle ID	C2672-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	93	C2672-FS(0)	3/21/2024
13C5-PFPeA	100	C2672-FS(0)	3/21/2024
13C5-PFHxA	90	C2672-FS(0)	3/21/2024
13C4-PFHpA	96	C2672-FS(0)	3/21/2024
13C8-PFOA	90	C2672-FS(0)	3/21/2024
13C9-PFNA	89	C2672-FS(0)	3/21/2024
13C6-PFDA	87	C2672-FS(0)	3/21/2024
13C7-PFUnA	81	C2672-FS(0)	3/21/2024
13C2-PFDoA	82	C2672-FS(0)	3/21/2024
13C2-PFTeDA	50	C2672-FS(0)	3/21/2024
13C3-PFBS	94	C2672-FS(0)	3/21/2024
13C3-PFHxS	89	C2672-FS(0)	3/21/2024
13C8-PFOS	91	C2672-FS(0)	3/21/2024
13C2-4:2FTS	115	C2672-FS(0)	3/21/2024
13C2-6:2FTS	117	C2672-FS(0)	3/21/2024
13C2-8:2FTS	95	C2672-FS(0)	3/21/2024
13C8-PFOSA	88	C2672-FS(0)	3/21/2024
d3-MeFOSA	71	C2672-FS(0)	3/21/2024
d5-EtFOSA	59	C2672-FS(0)	3/21/2024
d3-MeFOSAA	88	C2672-FS(0)	3/21/2024
d5-EtFOSAA	95	C2672-FS(0)	3/21/2024
d7-MeFOSE	66	C2672-FS(0)	3/21/2024
d9-EtFOSE	54	C2672-FS(0)	3/21/2024
13C3-HFPO-DA	95	C2672-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	75	C2672-FS(0)	3/21/2024
13C2-PFHxA	75	C2672-FS(0)	3/21/2024
13C4-PFOA	75	C2672-FS(0)	3/21/2024
13C5-PFNA	74	C2672-FS(0)	3/21/2024
13C2-PFDA	74	C2672-FS(0)	3/21/2024
18O2-PFHxS	77	C2672-FS(0)	3/21/2024
13C4-PFOS	73	C2672-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-48-20240318
Battelle ID	C2673-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.505
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	2.71 J	C2673-FS(0)	1.000	3/21/2024	0.591	1.18	6.34
PFPeA	2706-90-3	2.24 J	C2673-FS(0)	1.000	3/21/2024	0.557	1.11	3.17
PFHxA	307-24-4	2.81	C2673-FS(0)	1.000	3/21/2024	0.408	0.816	1.58
PFHpA	375-85-9	1.77	C2673-FS(0)	1.000	3/21/2024	0.171	0.343	1.58
PFOA	335-67-1	7.56	C2673-FS(0)	1.000	3/21/2024	0.287	0.574	1.58
PFNA	375-95-1	1.57 J	C2673-FS(0)	1.000	3/21/2024	0.248	0.495	1.58
PFDA	335-76-2	0.442 U	C2673-FS(0)	1.000	3/21/2024	0.221	0.442	1.58
PFUnA	2058-94-8	0.402 U	C2673-FS(0)	1.000	3/21/2024	0.201	0.402	1.58
PFDoA	307-55-1	0.596 U	C2673-FS(0)	1.000	3/21/2024	0.298	0.596	1.58
PFTrDA	72629-94-8	0.719 U	C2673-FS(0)	1.000	3/21/2024	0.359	0.719	1.58
PFTeDA	376-06-7	0.850 U	C2673-FS(0)	1.000	3/21/2024	0.425	0.850	1.58
PFBS	375-73-5	5.47	C2673-FS(0)	1.000	3/21/2024	0.175	0.350	1.58
PFPeS	2706-91-4	0.333 J	C2673-FS(0)	1.000	3/21/2024	0.128	0.255	1.58
PFHxS	355-46-4	2.06	C2673-FS(0)	1.000	3/21/2024	0.288	0.576	1.58
PFHpS	375-92-8	0.404 U	C2673-FS(0)	1.000	3/21/2024	0.202	0.404	1.58
PFOS	1763-23-1	4.94	C2673-FS(0)	1.000	3/21/2024	0.246	0.491	1.58
PFNS	68259-12-1	0.493 U	C2673-FS(0)	1.000	3/21/2024	0.247	0.493	1.58
PFDS	335-77-3	0.321 U	C2673-FS(0)	1.000	3/21/2024	0.160	0.321	1.58
PFDoS	79780-39-5	0.356 U	C2673-FS(0)	1.000	3/21/2024	0.178	0.356	1.58
4:2FTS	757124-72-4	2.61 U	C2673-FS(0)	1.000	3/21/2024	1.31	2.61	6.34
6:2FTS	27619-97-2	2.93 U	C2673-FS(0)	1.000	3/21/2024	1.47	2.93	6.34
8:2FTS	39108-34-4	1.81 U	C2673-FS(0)	1.000	3/21/2024	0.907	1.81	6.34
PFOSA	754-91-6	0.372 U	C2673-FS(0)	1.000	3/21/2024	0.186	0.372	1.58
NMeFOSA	31506-32-8	0.394 U	C2673-FS(0)	1.000	3/21/2024	0.197	0.394	1.58
NEtFOSA	4151-50-2	0.198 U	C2673-FS(0)	1.000	3/21/2024	0.0988	0.198	1.58
NMeFOSAA	2355-31-9	1.30 U	C2673-FS(0)	1.000	3/21/2024	0.649	1.30	1.58
NEtFOSAA	2991-50-6	1.13 U	C2673-FS(0)	1.000	3/21/2024	0.565	1.13	1.58
NMeFOSE	24448-09-7	3.27 U	C2673-FS(0)	1.000	3/21/2024	1.63	3.27	15.8
NEtFOSE	1691-99-2	2.87 U	C2673-FS(0)	1.000	3/21/2024	1.44	2.87	15.8
HFPO-DA	13252-13-6	1.48 U	C2673-FS(0)	1.000	3/21/2024	0.741	1.48	6.34
Adona	919005-14-4	1.37 U	C2673-FS(0)	1.000	3/21/2024	0.687	1.37	6.34
PFMPA	377-73-1	1.24 U	C2673-FS(0)	1.000	3/21/2024	0.622	1.24	3.17
PFMBA	863090-89-5	1.19 U	C2673-FS(0)	1.000	3/21/2024	0.594	1.19	3.17
NFDHA	151772-58-6	1.50 U	C2673-FS(0)	1.000	3/21/2024	0.752	1.50	3.17
9Cl-PF3ONS	756426-58-1	1.38 U	C2673-FS(0)	1.000	3/21/2024	0.692	1.38	6.34
11Cl-PF3OUdS	763051-92-9	2.16 U	C2673-FS(0)	1.000	3/21/2024	1.08	2.16	6.34
PFEESA	113507-82-7	0.420 U	C2673-FS(0)	1.000	3/21/2024	0.210	0.420	3.17
3:3 FTCA	356-02-5	3.31 U	C2673-FS(0)	1.000	3/21/2024	1.65	3.31	7.92
5:3 FTCA	914637-49-3	8.83 U	C2673-FS(0)	1.000	3/21/2024	4.42	8.83	39.6
7:3 FTCA	812-70-4	10.3 U	C2673-FS(0)	1.000	3/21/2024	5.17	10.3	39.6

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-48-20240318
Battelle ID	C2673-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	88	C2673-FS(0)	3/21/2024
13C5-PFPeA	98	C2673-FS(0)	3/21/2024
13C5-PFHxA	93	C2673-FS(0)	3/21/2024
13C4-PFHpA	93	C2673-FS(0)	3/21/2024
13C8-PFOA	94	C2673-FS(0)	3/21/2024
13C9-PFNA	87	C2673-FS(0)	3/21/2024
13C6-PFDA	82	C2673-FS(0)	3/21/2024
13C7-PFUnA	89	C2673-FS(0)	3/21/2024
13C2-PFDoA	80	C2673-FS(0)	3/21/2024
13C2-PFTeDA	42	C2673-FS(0)	3/21/2024
13C3-PFBS	94	C2673-FS(0)	3/21/2024
13C3-PFHxS	87	C2673-FS(0)	3/21/2024
13C8-PFOS	95	C2673-FS(0)	3/21/2024
13C2-4:2FTS	123	C2673-FS(0)	3/21/2024
13C2-6:2FTS	109	C2673-FS(0)	3/21/2024
13C2-8:2FTS	115	C2673-FS(0)	3/21/2024
13C8-PFOSA	89	C2673-FS(0)	3/21/2024
d3-MeFOSA	81	C2673-FS(0)	3/21/2024
d5-EtFOSA	70	C2673-FS(0)	3/21/2024
d3-MeFOSAA	101	C2673-FS(0)	3/21/2024
d5-EtFOSAA	97	C2673-FS(0)	3/21/2024
d7-MeFOSE	74	C2673-FS(0)	3/21/2024
d9-EtFOSE	56	C2673-FS(0)	3/21/2024
13C3-HFPO-DA	101	C2673-FS(0)	3/21/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	79	C2673-FS(0)	3/21/2024
13C2-PFHxA	76	C2673-FS(0)	3/21/2024
13C4-PFOA	75	C2673-FS(0)	3/21/2024
13C5-PFNA	80	C2673-FS(0)	3/21/2024
13C2-PFDA	77	C2673-FS(0)	3/21/2024
18O2-PFHxS	84	C2673-FS(0)	3/21/2024
13C4-PFOS	73	C2673-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-46-20240318
Battelle ID	C2674-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.465
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	19.9	C2674-FS(0)	1.000	3/21/2024	0.642	1.28	6.88
PFPeA	2706-90-3	40.3	C2674-FS(0)	1.000	3/21/2024	0.605	1.21	3.44
PFHxA	307-24-4	43.8	C2674-FS(0)	1.000	3/21/2024	0.443	0.886	1.72
PFHpA	375-85-9	14.9	C2674-FS(0)	1.000	3/21/2024	0.186	0.372	1.72
PFOA	335-67-1	174	C2674-FS(0)	1.000	3/21/2024	0.312	0.624	1.72
PFNA	375-95-1	4.90	C2674-FS(0)	1.000	3/21/2024	0.269	0.538	1.72
PFDA	335-76-2	1.06 J	C2674-FS(0)	1.000	3/21/2024	0.240	0.480	1.72
PFUnA	2058-94-8	0.437 U	C2674-FS(0)	1.000	3/21/2024	0.218	0.437	1.72
PFDoA	307-55-1	0.647 U	C2674-FS(0)	1.000	3/21/2024	0.324	0.647	1.72
PFTrDA	72629-94-8	0.781 U	C2674-FS(0)	1.000	3/21/2024	0.390	0.781	1.72
PFTeDA	376-06-7	0.923 U	C2674-FS(0)	1.000	3/21/2024	0.461	0.923	1.72
PFBS	375-73-5	25.4	C2674-FS(0)	1.000	3/21/2024	0.190	0.381	1.72
PFPeS	2706-91-4	24.2	C2674-FS(0)	1.000	3/21/2024	0.139	0.277	1.72
PFHxS	355-46-4	204	C2674-FS(0)	1.000	3/21/2024	0.313	0.626	1.72
PFHpS	375-92-8	8.57	C2674-FS(0)	1.000	3/21/2024	0.219	0.439	1.72
PFOS	1763-23-1	492	C2674-FS(0)	1.000	3/21/2024	0.267	0.533	1.72
PFNS	68259-12-1	0.535 U	C2674-FS(0)	1.000	3/21/2024	0.268	0.535	1.72
PFDS	335-77-3	0.348 U	C2674-FS(0)	1.000	3/21/2024	0.174	0.348	1.72
PFDoS	79780-39-5	0.387 U	C2674-FS(0)	1.000	3/21/2024	0.194	0.387	1.72
4:2FTS	757124-72-4	2.84 U	C2674-FS(0)	1.000	3/21/2024	1.42	2.84	6.88
6:2FTS	27619-97-2	1.76 J	C2674-FS(0)	1.000	3/21/2024	1.59	3.18	6.88
8:2FTS	39108-34-4	1.97 U	C2674-FS(0)	1.000	3/21/2024	0.985	1.97	6.88
PFOSA	754-91-6	0.404 U	C2674-FS(0)	1.000	3/21/2024	0.202	0.404	1.72
NMeFOSA	31506-32-8	0.428 U	C2674-FS(0)	1.000	3/21/2024	0.214	0.428	1.72
NEtFOSA	4151-50-2	0.215 U	C2674-FS(0)	1.000	3/21/2024	0.107	0.215	1.72
NMeFOSAA	2355-31-9	1.41 U	C2674-FS(0)	1.000	3/21/2024	0.704	1.41	1.72
NEtFOSAA	2991-50-6	1.23 U	C2674-FS(0)	1.000	3/21/2024	0.614	1.23	1.72
NMeFOSE	24448-09-7	3.55 U	C2674-FS(0)	1.000	3/21/2024	1.77	3.55	17.2
NEtFOSE	1691-99-2	3.12 U	C2674-FS(0)	1.000	3/21/2024	1.56	3.12	17.2
HFPO-DA	13252-13-6	1.61 U	C2674-FS(0)	1.000	3/21/2024	0.804	1.61	6.88
Adona	919005-14-4	1.49 U	C2674-FS(0)	1.000	3/21/2024	0.746	1.49	6.88
PFMPA	377-73-1	1.35 U	C2674-FS(0)	1.000	3/21/2024	0.675	1.35	3.44
PFMBA	863090-89-5	1.29 U	C2674-FS(0)	1.000	3/21/2024	0.645	1.29	3.44
NFDHA	151772-58-6	1.63 U	C2674-FS(0)	1.000	3/21/2024	0.817	1.63	3.44
9Cl-PF3ONS	756426-58-1	1.50 U	C2674-FS(0)	1.000	3/21/2024	0.752	1.50	6.88
11Cl-PF3OUdS	763051-92-9	2.34 U	C2674-FS(0)	1.000	3/21/2024	1.17	2.34	6.88
PFEESA	113507-82-7	0.456 U	C2674-FS(0)	1.000	3/21/2024	0.228	0.456	3.44
3:3 FTCA	356-02-5	3.59 U	C2674-FS(0)	1.000	3/21/2024	1.80	3.59	8.60
5:3 FTCA	914637-49-3	9.59 U	C2674-FS(0)	1.000	3/21/2024	4.80	9.59	43.0
7:3 FTCA	812-70-4	11.2 U	C2674-FS(0)	1.000	3/21/2024	5.61	11.2	43.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-46-20240318
Battelle ID	C2674-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	89	C2674-FS(0)	3/21/2024
13C5-PFPeA	93	C2674-FS(0)	3/21/2024
13C5-PFHxA	91	C2674-FS(0)	3/21/2024
13C4-PFHpA	90	C2674-FS(0)	3/21/2024
13C8-PFOA	86	C2674-FS(0)	3/21/2024
13C9-PFNA	90	C2674-FS(0)	3/21/2024
13C6-PFDA	90	C2674-FS(0)	3/21/2024
13C7-PFUnA	86	C2674-FS(0)	3/21/2024
13C2-PFDoA	72	C2674-FS(0)	3/21/2024
13C2-PFTeDA	43	C2674-FS(0)	3/21/2024
13C3-PFBS	99	C2674-FS(0)	3/21/2024
13C3-PFHxS	93	C2674-FS(0)	3/21/2024
13C8-PFOS	82	C2674-FS(0)	3/21/2024
13C2-4:2FTS	102	C2674-FS(0)	3/21/2024
13C2-6:2FTS	106	C2674-FS(0)	3/21/2024
13C2-8:2FTS	84	C2674-FS(0)	3/21/2024
13C8-PFOSA	70	C2674-FS(0)	3/21/2024
d3-MeFOSA	56	C2674-FS(0)	3/21/2024
d5-EtFOSA	48	C2674-FS(0)	3/21/2024
d3-MeFOSAA	67	C2674-FS(0)	3/21/2024
d5-EtFOSAA	73	C2674-FS(0)	3/21/2024
d7-MeFOSE	56	C2674-FS(0)	3/21/2024
d9-EtFOSE	44	C2674-FS(0)	3/21/2024
13C3-HFPO-DA	89	C2674-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	78	C2674-FS(0)	3/21/2024
13C2-PFHxA	77	C2674-FS(0)	3/21/2024
13C4-PFOA	74	C2674-FS(0)	3/21/2024
13C5-PFNA	79	C2674-FS(0)	3/21/2024
13C2-PFDA	78	C2674-FS(0)	3/21/2024
18O2-PFHxS	76	C2674-FS(0)	3/21/2024
13C4-PFOS	88	C2674-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-45-20240318
Battelle ID	C2675-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.513
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	22.6	C2675-FS(0)	1.000	3/21/2024	0.582	1.16	6.24
PFPeA	2706-90-3	44.9	C2675-FS(0)	1.000	3/21/2024	0.549	1.10	3.12
PFHxA	307-24-4	41.6	C2675-FS(0)	1.000	3/21/2024	0.402	0.803	1.56
PFHpA	375-85-9	11.6	C2675-FS(0)	1.000	3/21/2024	0.169	0.337	1.56
PFOA	335-67-1	146	C2675-FS(0)	1.000	3/21/2024	0.283	0.565	1.56
PFNA	375-95-1	4.36	C2675-FS(0)	1.000	3/21/2024	0.244	0.487	1.56
PFDA	335-76-2	1.03 J	C2675-FS(0)	1.000	3/21/2024	0.217	0.435	1.56
PFUnA	2058-94-8	0.396 U	C2675-FS(0)	1.000	3/21/2024	0.198	0.396	1.56
PFDoA	307-55-1	0.587 U	C2675-FS(0)	1.000	3/21/2024	0.293	0.587	1.56
PFTrDA	72629-94-8	0.708 U	C2675-FS(0)	1.000	3/21/2024	0.354	0.708	1.56
PFTeDA	376-06-7	0.836 U	C2675-FS(0)	1.000	3/21/2024	0.418	0.836	1.56
PFBS	375-73-5	17.1	C2675-FS(0)	1.000	3/21/2024	0.173	0.345	1.56
PFPeS	2706-91-4	18.3	C2675-FS(0)	1.000	3/21/2024	0.126	0.251	1.56
PFHxS	355-46-4	151	C2675-FS(0)	1.000	3/21/2024	0.284	0.567	1.56
PFHpS	375-92-8	7.58	C2675-FS(0)	1.000	3/21/2024	0.199	0.398	1.56
PFOS	1763-23-1	528	C2675-FS(0)	1.000	3/21/2024	0.242	0.483	1.56
PFNS	68259-12-1	0.485 U	C2675-FS(0)	1.000	3/21/2024	0.243	0.485	1.56
PFDS	335-77-3	0.316 U	C2675-FS(0)	1.000	3/21/2024	0.158	0.316	1.56
PFDoS	79780-39-5	0.351 U	C2675-FS(0)	1.000	3/21/2024	0.175	0.351	1.56
4:2FTS	757124-72-4	2.57 U	C2675-FS(0)	1.000	3/21/2024	1.29	2.57	6.24
6:2FTS	27619-97-2	2.78 J	C2675-FS(0)	1.000	3/21/2024	1.44	2.88	6.24
8:2FTS	39108-34-4	1.79 U	C2675-FS(0)	1.000	3/21/2024	0.893	1.79	6.24
PFOSA	754-91-6	0.366 U	C2675-FS(0)	1.000	3/21/2024	0.183	0.366	1.56
NMeFOSA	31506-32-8	0.388 U	C2675-FS(0)	1.000	3/21/2024	0.194	0.388	1.56
NEtFOSA	4151-50-2	0.195 U	C2675-FS(0)	1.000	3/21/2024	0.0973	0.195	1.56
NMeFOSAA	2355-31-9	1.28 U	C2675-FS(0)	1.000	3/21/2024	0.638	1.28	1.56
NEtFOSAA	2991-50-6	1.11 U	C2675-FS(0)	1.000	3/21/2024	0.557	1.11	1.56
NMeFOSE	24448-09-7	3.22 U	C2675-FS(0)	1.000	3/21/2024	1.61	3.22	15.6
NEtFOSE	1691-99-2	2.83 U	C2675-FS(0)	1.000	3/21/2024	1.41	2.83	15.6
HFPO-DA	13252-13-6	1.46 U	C2675-FS(0)	1.000	3/21/2024	0.729	1.46	6.24
Adona	919005-14-4	1.35 U	C2675-FS(0)	1.000	3/21/2024	0.676	1.35	6.24
PFMPA	377-73-1	1.22 U	C2675-FS(0)	1.000	3/21/2024	0.612	1.22	3.12
PFMBA	863090-89-5	1.17 U	C2675-FS(0)	1.000	3/21/2024	0.585	1.17	3.12
NFDHA	151772-58-6	1.48 U	C2675-FS(0)	1.000	3/21/2024	0.741	1.48	3.12
9Cl-PF3ONS	756426-58-1	1.36 U	C2675-FS(0)	1.000	3/21/2024	0.681	1.36	6.24
11Cl-PF3OUdS	763051-92-9	2.12 U	C2675-FS(0)	1.000	3/21/2024	1.06	2.12	6.24
PFEESA	113507-82-7	0.413 U	C2675-FS(0)	1.000	3/21/2024	0.207	0.413	3.12
3:3 FTCA	356-02-5	3.26 U	C2675-FS(0)	1.000	3/21/2024	1.63	3.26	7.80
5:3 FTCA	914637-49-3	8.69 U	C2675-FS(0)	1.000	3/21/2024	4.35	8.69	39.0
7:3 FTCA	812-70-4	10.2 U	C2675-FS(0)	1.000	3/21/2024	5.09	10.2	39.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-45-20240318
Battelle ID	C2675-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	93	C2675-FS(0)	3/21/2024
13C5-PFPeA	99	C2675-FS(0)	3/21/2024
13C5-PFHxA	95	C2675-FS(0)	3/21/2024
13C4-PFHpA	98	C2675-FS(0)	3/21/2024
13C8-PFOA	98	C2675-FS(0)	3/21/2024
13C9-PFNA	94	C2675-FS(0)	3/21/2024
13C6-PFDA	87	C2675-FS(0)	3/21/2024
13C7-PFUnA	82	C2675-FS(0)	3/21/2024
13C2-PFDoA	76	C2675-FS(0)	3/21/2024
13C2-PFTeDA	53	C2675-FS(0)	3/21/2024
13C3-PFBS	102	C2675-FS(0)	3/21/2024
13C3-PFHxS	94	C2675-FS(0)	3/21/2024
13C8-PFOS	90	C2675-FS(0)	3/21/2024
13C2-4:2FTS	117	C2675-FS(0)	3/21/2024
13C2-6:2FTS	114	C2675-FS(0)	3/21/2024
13C2-8:2FTS	119	C2675-FS(0)	3/21/2024
13C8-PFOSA	72	C2675-FS(0)	3/21/2024
d3-MeFOSA	54	C2675-FS(0)	3/21/2024
d5-EtFOSA	45	C2675-FS(0)	3/21/2024
d3-MeFOSAA	81	C2675-FS(0)	3/21/2024
d5-EtFOSAA	76	C2675-FS(0)	3/21/2024
d7-MeFOSE	53	C2675-FS(0)	3/21/2024
d9-EtFOSE	42	C2675-FS(0)	3/21/2024
13C3-HFPO-DA	97	C2675-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	78	C2675-FS(0)	3/21/2024
13C2-PFHxA	71	C2675-FS(0)	3/21/2024
13C4-PFOA	74	C2675-FS(0)	3/21/2024
13C5-PFNA	73	C2675-FS(0)	3/21/2024
13C2-PFDA	77	C2675-FS(0)	3/21/2024
18O2-PFHxS	78	C2675-FS(0)	3/21/2024
13C4-PFOS	87	C2675-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-49-20240318
Battelle ID	C2676-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.516
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	33.8	C2676-FS(0)	1.000	3/21/2024	0.578	1.16	6.20
PFPeA	2706-90-3	68.7	C2676-FS(0)	1.000	3/21/2024	0.546	1.09	3.10
PFHxA	307-24-4	125	C2676-FS(0)	1.000	3/21/2024	0.399	0.798	1.55
PFHpA	375-85-9	36.1	C2676-FS(0)	1.000	3/21/2024	0.168	0.335	1.55
PFOA	335-67-1	327	C2676-FS(0)	1.000	3/21/2024	0.281	0.562	1.55
PFNA	375-95-1	14.8	C2676-FS(0)	1.000	3/21/2024	0.242	0.484	1.55
PFDA	335-76-2	1.88	C2676-FS(0)	1.000	3/21/2024	0.216	0.432	1.55
PFUnA	2058-94-8	0.393 U	C2676-FS(0)	1.000	3/21/2024	0.197	0.393	1.55
PFDoA	307-55-1	0.583 U	C2676-FS(0)	1.000	3/21/2024	0.292	0.583	1.55
PFTrDA	72629-94-8	0.703 U	C2676-FS(0)	1.000	3/21/2024	0.352	0.703	1.55
PFTeDA	376-06-7	0.831 U	C2676-FS(0)	1.000	3/21/2024	0.416	0.831	1.55
PFBS	375-73-5	112	C2676-FS(0)	1.000	3/21/2024	0.172	0.343	1.55
PFPeS	2706-91-4	151	C2676-FS(0)	1.000	3/21/2024	0.125	0.250	1.55
PFHxS	355-46-4	1120 D	C2676-FS-D(3)	5.000	3/21/2024	1.41	2.82	7.75
PFHpS	375-92-8	36.5	C2676-FS(0)	1.000	3/21/2024	0.198	0.395	1.55
PFOS	1763-23-1	1860 D	C2676-FS-D(3)	5.000	3/21/2024	1.20	2.40	7.75
PFNS	68259-12-1	0.483 U	C2676-FS(0)	1.000	3/21/2024	0.241	0.483	1.55
PFDS	335-77-3	0.314 U	C2676-FS(0)	1.000	3/21/2024	0.157	0.314	1.55
PFDoS	79780-39-5	0.349 U	C2676-FS(0)	1.000	3/21/2024	0.174	0.349	1.55
4:2FTS	757124-72-4	2.56 U	C2676-FS(0)	1.000	3/21/2024	1.28	2.56	6.20
6:2FTS	27619-97-2	6.91	C2676-FS(0)	1.000	3/21/2024	1.43	2.87	6.20
8:2FTS	39108-34-4	1.78 U	C2676-FS(0)	1.000	3/21/2024	0.888	1.78	6.20
PFOSA	754-91-6	0.364 U	C2676-FS(0)	1.000	3/21/2024	0.182	0.364	1.55
NMeFOSA	31506-32-8	0.386 U	C2676-FS(0)	1.000	3/21/2024	0.193	0.386	1.55
NEtFOSA	4151-50-2	0.193 U	C2676-FS(0)	1.000	3/21/2024	0.0967	0.193	1.55
NMeFOSAA	2355-31-9	1.27 U	C2676-FS(0)	1.000	3/21/2024	0.635	1.27	1.55
NEtFOSAA	2991-50-6	1.11 U	C2676-FS(0)	1.000	3/21/2024	0.553	1.11	1.55
NMeFOSE	24448-09-7	3.20 U	C2676-FS(0)	1.000	3/21/2024	1.60	3.20	15.5
NEtFOSE	1691-99-2	2.81 U	C2676-FS(0)	1.000	3/21/2024	1.41	2.81	15.5
HFPO-DA	13252-13-6	1.45 U	C2676-FS(0)	1.000	3/21/2024	0.725	1.45	6.20
Adona	919005-14-4	1.34 U	C2676-FS(0)	1.000	3/21/2024	0.672	1.34	6.20
PFMPA	377-73-1	1.22 U	C2676-FS(0)	1.000	3/21/2024	0.609	1.22	3.10
PFMBA	863090-89-5	1.16 U	C2676-FS(0)	1.000	3/21/2024	0.581	1.16	3.10
NFDHA	151772-58-6	1.47 U	C2676-FS(0)	1.000	3/21/2024	0.736	1.47	3.10
9Cl-PF3ONS	756426-58-1	1.35 U	C2676-FS(0)	1.000	3/21/2024	0.677	1.35	6.20
11Cl-PF3OUdS	763051-92-9	2.11 U	C2676-FS(0)	1.000	3/21/2024	1.06	2.11	6.20
PFEESA	113507-82-7	0.411 U	C2676-FS(0)	1.000	3/21/2024	0.205	0.411	3.10
3:3 FTCA	356-02-5	3.24 U	C2676-FS(0)	1.000	3/21/2024	1.62	3.24	7.75
5:3 FTCA	914637-49-3	8.64 U	C2676-FS(0)	1.000	3/21/2024	4.32	8.64	38.8
7:3 FTCA	812-70-4	10.1 U	C2676-FS(0)	1.000	3/21/2024	5.06	10.1	38.8

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-49-20240318
Battelle ID	C2676-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	76	C2676-FS(0)	3/21/2024
13C5-PFPeA	92	C2676-FS(0)	3/21/2024
13C5-PFHxA	83	C2676-FS(0)	3/21/2024
13C4-PFHpA	83	C2676-FS(0)	3/21/2024
13C8-PFOA	93	C2676-FS(0)	3/21/2024
13C9-PFNA	82	C2676-FS(0)	3/21/2024
13C6-PFDA	89	C2676-FS(0)	3/21/2024
13C7-PFUnA	74	C2676-FS(0)	3/21/2024
13C2-PFDoA	67	C2676-FS(0)	3/21/2024
13C2-PFTeDA	38	C2676-FS(0)	3/21/2024
13C3-PFBS	98	C2676-FS(0)	3/21/2024
13C3-PFHxS	91	C2676-FS(0)	3/21/2024
13C8-PFOS	80	C2676-FS(0)	3/21/2024
13C2-4:2FTS	125	C2676-FS(0)	3/21/2024
13C2-6:2FTS	139	C2676-FS(0)	3/21/2024
13C2-8:2FTS	129	C2676-FS(0)	3/21/2024
13C8-PFOSA	71	C2676-FS(0)	3/21/2024
d3-MeFOSA	65	C2676-FS(0)	3/21/2024
d5-EtFOSA	59	C2676-FS(0)	3/21/2024
d3-MeFOSAA	80	C2676-FS(0)	3/21/2024
d5-EtFOSAA	79	C2676-FS(0)	3/21/2024
d7-MeFOSE	59	C2676-FS(0)	3/21/2024
d9-EtFOSE	45	C2676-FS(0)	3/21/2024
13C3-HFPO-DA	89	C2676-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	82	C2676-FS(0)	3/21/2024
13C2-PFHxA	82	C2676-FS(0)	3/21/2024
13C4-PFOA	74	C2676-FS(0)	3/21/2024
13C5-PFNA	81	C2676-FS(0)	3/21/2024
13C2-PFDA	93	C2676-FS(0)	3/21/2024
18O2-PFHxS	78	C2676-FS(0)	3/21/2024
13C4-PFOS	93	C2676-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-54-20240318
Battelle ID	C2677-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.537
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	32.4	C2677-FS(0)	1.000	3/21/2024	0.556	1.11	5.96
PFPeA	2706-90-3	72.7	C2677-FS(0)	1.000	3/21/2024	0.524	1.05	2.98
PFHxA	307-24-4	131	C2677-FS(0)	1.000	3/21/2024	0.384	0.767	1.49
PFHpA	375-85-9	38.9	C2677-FS(0)	1.000	3/21/2024	0.161	0.322	1.49
PFOA	335-67-1	319	C2677-FS(0)	1.000	3/21/2024	0.270	0.540	1.49
PFNA	375-95-1	13.6	C2677-FS(0)	1.000	3/21/2024	0.233	0.466	1.49
PFDA	335-76-2	1.92	C2677-FS(0)	1.000	3/21/2024	0.208	0.415	1.49
PFUnA	2058-94-8	0.378 U	C2677-FS(0)	1.000	3/21/2024	0.189	0.378	1.49
PFDoA	307-55-1	0.561 U	C2677-FS(0)	1.000	3/21/2024	0.280	0.561	1.49
PFTrDA	72629-94-8	0.676 U	C2677-FS(0)	1.000	3/21/2024	0.338	0.676	1.49
PFTeDA	376-06-7	0.799 U	C2677-FS(0)	1.000	3/21/2024	0.399	0.799	1.49
PFBS	375-73-5	131	C2677-FS(0)	1.000	3/21/2024	0.165	0.330	1.49
PFPeS	2706-91-4	157	C2677-FS(0)	1.000	3/21/2024	0.120	0.240	1.49
PFHxS	355-46-4	1240 D	C2677-FS-D(3)	5.000	3/21/2024	1.35	2.71	7.45
PFHpS	375-92-8	38.7	C2677-FS(0)	1.000	3/21/2024	0.190	0.380	1.49
PFOS	1763-23-1	2090 D	C2677-FS-D(3)	5.000	3/21/2024	1.15	2.31	7.45
PFNS	68259-12-1	0.464 U	C2677-FS(0)	1.000	3/21/2024	0.232	0.464	1.49
PFDS	335-77-3	0.302 U	C2677-FS(0)	1.000	3/21/2024	0.151	0.302	1.49
PFDoS	79780-39-5	0.335 U	C2677-FS(0)	1.000	3/21/2024	0.168	0.335	1.49
4:2FTS	757124-72-4	2.46 U	C2677-FS(0)	1.000	3/21/2024	1.23	2.46	5.96
6:2FTS	27619-97-2	12.6	C2677-FS(0)	1.000	3/21/2024	1.38	2.76	5.96
8:2FTS	39108-34-4	1.71 U	C2677-FS(0)	1.000	3/21/2024	0.853	1.71	5.96
PFOSA	754-91-6	0.350 U	C2677-FS(0)	1.000	3/21/2024	0.175	0.350	1.49
NMeFOSA	31506-32-8	0.371 U	C2677-FS(0)	1.000	3/21/2024	0.185	0.371	1.49
NEtFOSA	4151-50-2	0.186 U	C2677-FS(0)	1.000	3/21/2024	0.0929	0.186	1.49
NMeFOSAA	2355-31-9	1.22 U	C2677-FS(0)	1.000	3/21/2024	0.610	1.22	1.49
NEtFOSAA	2991-50-6	1.06 U	C2677-FS(0)	1.000	3/21/2024	0.532	1.06	1.49
NMeFOSE	24448-09-7	3.07 U	C2677-FS(0)	1.000	3/21/2024	1.54	3.07	14.9
NEtFOSE	1691-99-2	2.70 U	C2677-FS(0)	1.000	3/21/2024	1.35	2.70	14.9
HFPO-DA	13252-13-6	1.39 U	C2677-FS(0)	1.000	3/21/2024	0.696	1.39	5.96
Adona	919005-14-4	1.29 U	C2677-FS(0)	1.000	3/21/2024	0.646	1.29	5.96
PFMPA	377-73-1	1.17 U	C2677-FS(0)	1.000	3/21/2024	0.585	1.17	2.98
PFMBA	863090-89-5	1.12 U	C2677-FS(0)	1.000	3/21/2024	0.559	1.12	2.98
NFDHA	151772-58-6	1.42 U	C2677-FS(0)	1.000	3/21/2024	0.708	1.42	2.98
9Cl-PF3ONS	756426-58-1	1.30 U	C2677-FS(0)	1.000	3/21/2024	0.651	1.30	5.96
11Cl-PF3OUdS	763051-92-9	2.03 U	C2677-FS(0)	1.000	3/21/2024	1.01	2.03	5.96
PFEESA	113507-82-7	0.395 U	C2677-FS(0)	1.000	3/21/2024	0.197	0.395	2.98
3:3 FTCA	356-02-5	3.11 U	C2677-FS(0)	1.000	3/21/2024	1.55	3.11	7.45
5:3 FTCA	914637-49-3	8.31 U	C2677-FS(0)	1.000	3/21/2024	4.15	8.31	37.2
7:3 FTCA	812-70-4	9.72 U	C2677-FS(0)	1.000	3/21/2024	4.86	9.72	37.2

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-54-20240318
Battelle ID	C2677-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	90	C2677-FS(0)	3/21/2024
13C5-PFPeA	94	C2677-FS(0)	3/21/2024
13C5-PFHxA	81	C2677-FS(0)	3/21/2024
13C4-PFHpA	92	C2677-FS(0)	3/21/2024
13C8-PFOA	83	C2677-FS(0)	3/21/2024
13C9-PFNA	89	C2677-FS(0)	3/21/2024
13C6-PFDA	87	C2677-FS(0)	3/21/2024
13C7-PFUnA	70	C2677-FS(0)	3/21/2024
13C2-PFDoA	75	C2677-FS(0)	3/21/2024
13C2-PFTeDA	46	C2677-FS(0)	3/21/2024
13C3-PFBS	94	C2677-FS(0)	3/21/2024
13C3-PFHxS	87	C2677-FS(0)	3/21/2024
13C8-PFOS	87	C2677-FS(0)	3/21/2024
13C2-4:2FTS	111	C2677-FS(0)	3/21/2024
13C2-6:2FTS	120	C2677-FS(0)	3/21/2024
13C2-8:2FTS	105	C2677-FS(0)	3/21/2024
13C8-PFOSA	72	C2677-FS(0)	3/21/2024
d3-MeFOSA	64	C2677-FS(0)	3/21/2024
d5-EtFOSA	52	C2677-FS(0)	3/21/2024
d3-MeFOSAA	88	C2677-FS(0)	3/21/2024
d5-EtFOSAA	78	C2677-FS(0)	3/21/2024
d7-MeFOSE	61	C2677-FS(0)	3/21/2024
d9-EtFOSE	48	C2677-FS(0)	3/21/2024
13C3-HFPO-DA	99	C2677-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	77	C2677-FS(0)	3/21/2024
13C2-PFHxA	73	C2677-FS(0)	3/21/2024
13C4-PFOA	78	C2677-FS(0)	3/21/2024
13C5-PFNA	70	C2677-FS(0)	3/21/2024
13C2-PFDA	85	C2677-FS(0)	3/21/2024
18O2-PFHxS	72	C2677-FS(0)	3/21/2024
13C4-PFOS	81	C2677-FS(0)	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-01-20240318
Battelle ID	C2678-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.468
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	5.88 J	C2678-FS(0)	1.000	3/21/2024	0.638	1.28	6.84
PFPeA	2706-90-3	7.59	C2678-FS(0)	1.000	3/21/2024	0.601	1.20	3.42
PFHxA	307-24-4	8.37	C2678-FS(0)	1.000	3/21/2024	0.440	0.880	1.71
PFHpA	375-85-9	4.03	C2678-FS(0)	1.000	3/21/2024	0.185	0.370	1.71
PFOA	335-67-1	23.3	C2678-FS(0)	1.000	3/21/2024	0.310	0.620	1.71
PFNA	375-95-1	2.23	C2678-FS(0)	1.000	3/21/2024	0.267	0.534	1.71
PFDA	335-76-2	0.476 U	C2678-FS(0)	1.000	3/21/2024	0.238	0.476	1.71
PFUnA	2058-94-8	0.434 U	C2678-FS(0)	1.000	3/21/2024	0.217	0.434	1.71
PFDoA	307-55-1	0.643 U	C2678-FS(0)	1.000	3/21/2024	0.322	0.643	1.71
PFTrDA	72629-94-8	0.776 U	C2678-FS(0)	1.000	3/21/2024	0.388	0.776	1.71
PFTeDA	376-06-7	0.917 U	C2678-FS(0)	1.000	3/21/2024	0.458	0.917	1.71
PFBS	375-73-5	9.09	C2678-FS(0)	1.000	3/21/2024	0.189	0.378	1.71
PFPeS	2706-91-4	3.57	C2678-FS(0)	1.000	3/21/2024	0.138	0.276	1.71
PFHxS	355-46-4	25.2	C2678-FS(0)	1.000	3/21/2024	0.311	0.622	1.71
PFHpS	375-92-8	0.981 J	C2678-FS(0)	1.000	3/21/2024	0.218	0.436	1.71
PFOS	1763-23-1	45.9	C2678-FS(0)	1.000	3/21/2024	0.265	0.530	1.71
PFNS	68259-12-1	0.532 U	C2678-FS(0)	1.000	3/21/2024	0.266	0.532	1.71
PFDS	335-77-3	0.346 U	C2678-FS(0)	1.000	3/21/2024	0.173	0.346	1.71
PFDoS	79780-39-5	0.385 U	C2678-FS(0)	1.000	3/21/2024	0.192	0.385	1.71
4:2FTS	757124-72-4	2.82 U	C2678-FS(0)	1.000	3/21/2024	1.41	2.82	6.84
6:2FTS	27619-97-2	3.16 U	C2678-FS(0)	1.000	3/21/2024	1.58	3.16	6.84
8:2FTS	39108-34-4	1.96 U	C2678-FS(0)	1.000	3/21/2024	0.979	1.96	6.84
PFOSA	754-91-6	0.402 U	C2678-FS(0)	1.000	3/21/2024	0.201	0.402	1.71
NMeFOSA	31506-32-8	0.425 U	C2678-FS(0)	1.000	3/21/2024	0.213	0.425	1.71
NEtFOSA	4151-50-2	0.213 U	C2678-FS(0)	1.000	3/21/2024	0.107	0.213	1.71
NMeFOSAA	2355-31-9	1.40 U	C2678-FS(0)	1.000	3/21/2024	0.700	1.40	1.71
NEtFOSAA	2991-50-6	1.22 U	C2678-FS(0)	1.000	3/21/2024	0.610	1.22	1.71
NMeFOSE	24448-09-7	3.53 U	C2678-FS(0)	1.000	3/21/2024	1.76	3.53	17.1
NEtFOSE	1691-99-2	3.10 U	C2678-FS(0)	1.000	3/21/2024	1.55	3.10	17.1
HFPO-DA	13252-13-6	1.60 U	C2678-FS(0)	1.000	3/21/2024	0.799	1.60	6.84
Adona	919005-14-4	1.48 U	C2678-FS(0)	1.000	3/21/2024	0.741	1.48	6.84
PFMPA	377-73-1	1.34 U	C2678-FS(0)	1.000	3/21/2024	0.671	1.34	3.42
PFMBA	863090-89-5	1.28 U	C2678-FS(0)	1.000	3/21/2024	0.641	1.28	3.42
NFDHA	151772-58-6	1.62 U	C2678-FS(0)	1.000	3/21/2024	0.812	1.62	3.42
9Cl-PF3ONS	756426-58-1	1.49 U	C2678-FS(0)	1.000	3/21/2024	0.747	1.49	6.84
11Cl-PF3OUdS	763051-92-9	2.33 U	C2678-FS(0)	1.000	3/21/2024	1.16	2.33	6.84
PFEESA	113507-82-7	0.453 U	C2678-FS(0)	1.000	3/21/2024	0.226	0.453	3.42
3:3 FTCA	356-02-5	3.57 U	C2678-FS(0)	1.000	3/21/2024	1.78	3.57	8.55
5:3 FTCA	914637-49-3	9.53 U	C2678-FS(0)	1.000	3/21/2024	4.76	9.53	42.7
7:3 FTCA	812-70-4	11.2 U	C2678-FS(0)	1.000	3/21/2024	5.58	11.2	42.7

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-01-20240318
Battelle ID	C2678-FS
Sample Type	SA
Collection Date	03/18/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	89	C2678-FS(0)	3/21/2024
13C5-PFPeA	97	C2678-FS(0)	3/21/2024
13C5-PFHxA	85	C2678-FS(0)	3/21/2024
13C4-PFHpA	93	C2678-FS(0)	3/21/2024
13C8-PFOA	98	C2678-FS(0)	3/21/2024
13C9-PFNA	86	C2678-FS(0)	3/21/2024
13C6-PFDA	87	C2678-FS(0)	3/21/2024
13C7-PFUnA	82	C2678-FS(0)	3/21/2024
13C2-PFDoA	75	C2678-FS(0)	3/21/2024
13C2-PFTeDA	47	C2678-FS(0)	3/21/2024
13C3-PFBS	94	C2678-FS(0)	3/21/2024
13C3-PFHxS	89	C2678-FS(0)	3/21/2024
13C8-PFOS	99	C2678-FS(0)	3/21/2024
13C2-4:2FTS	105	C2678-FS(0)	3/21/2024
13C2-6:2FTS	104	C2678-FS(0)	3/21/2024
13C2-8:2FTS	106	C2678-FS(0)	3/21/2024
13C8-PFOSA	86	C2678-FS(0)	3/21/2024
d3-MeFOSA	72	C2678-FS(0)	3/21/2024
d5-EtFOSA	60	C2678-FS(0)	3/21/2024
d3-MeFOSAA	87	C2678-FS(0)	3/21/2024
d5-EtFOSAA	105	C2678-FS(0)	3/21/2024
d7-MeFOSE	70	C2678-FS(0)	3/21/2024
d9-EtFOSE	55	C2678-FS(0)	3/21/2024
13C3-HFPO-DA	97	C2678-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	84	C2678-FS(0)	3/21/2024
13C2-PFHxA	80	C2678-FS(0)	3/21/2024
13C4-PFOA	80	C2678-FS(0)	3/21/2024
13C5-PFNA	78	C2678-FS(0)	3/21/2024
13C2-PFDA	83	C2678-FS(0)	3/21/2024
18O2-PFHxS	84	C2678-FS(0)	3/21/2024
13C4-PFOS	79	C2678-FS(0)	3/21/2024

Appendix C

Support Documentation

ANALYTE	ORIGINAL WGNA-SW-56-20240318	DUPLICATE WGNA-SW-DUP-01-20240318	RL	RPD	RPD > 30% Aqueous	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
11CL-PF3OUDS	2.22	2.33	6.52	4.84	FALSE	FALSE	FALSE	FALSE
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	2.95	3.1	16.3	4.96	FALSE	FALSE	FALSE	FALSE
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	3.36	3.53	16.3	4.93	FALSE	FALSE	FALSE	FALSE
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	3.4	3.57	8.15	4.88	FALSE	FALSE	FALSE	FALSE
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	1.41	1.48	6.52	4.84	FALSE	FALSE	FALSE	FALSE
4:2 FLUOROTELOMER SULFONATE	2.69	2.82	6.52	4.72	FALSE	FALSE	FALSE	FALSE
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	9.08	9.53	40.7	4.84	FALSE	FALSE	FALSE	FALSE
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	3.01	3.16	6.52	4.86	FALSE	FALSE	FALSE	FALSE
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	10.6	11.2	40.7	5.50	FALSE	FALSE	FALSE	FALSE
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	1.87	1.96	6.52	4.70	FALSE	FALSE	FALSE	FALSE
9CL-PF3ONS	1.42	1.49	6.52	4.81	FALSE	FALSE	FALSE	FALSE
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	1.52	1.6	6.52	5.13	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.203	0.213	1.63	4.81	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	1.16	1.22	1.63	5.04	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.405	0.425	1.63	4.82	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	1.33	1.4	1.63	5.13	FALSE	FALSE	FALSE	FALSE
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	1.55	1.62	3.26	4.42	FALSE	FALSE	FALSE	FALSE
PENTADECAFLUOROOCTANOIC ACID (PFOA)	24.5	23.3	1.63	5.02	FALSE	TRUE	TRUE	FALSE
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	0.432	0.453	3.26	4.75	FALSE	FALSE	FALSE	FALSE
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	1.28	1.34	3.26	4.58	FALSE	FALSE	FALSE	FALSE
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	1.22	1.28	3.26	4.80	FALSE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID (PFBS)	8.67	9.09	1.63	4.73	FALSE	TRUE	TRUE	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	6.2	5.88	6.52	5.30	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANESULFONIC ACID (PFDS)	0.33	0.346	1.63	4.73	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID (PFDA)	0.454	0.476	1.63	4.73	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANESULFONIC ACID (PFDOS)	0.367	0.385	1.63	4.79	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANOIC ACID (PFDOA)	0.613	0.643	1.63	4.78	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	0.969	0.981	1.63	1.23	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID (PFHPA)	4.33	4.03	1.63	7.18	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	26.9	25.2	1.63	6.53	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANOIC ACID (PFHXA)	8.03	8.37	1.63	4.15	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANESULFONIC ACID (PFNS)	0.507	0.532	1.63	4.81	FALSE	FALSE	FALSE	FALSE
PERFLUORONONANOIC ACID (PFNA)	2.02	2.23	1.63	9.88	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANE SULFONAMIDE (FOSA)	0.383	0.402	1.63	4.84	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANESULFONIC ACID (PFOS)	47.8	45.9	1.63	4.06	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANESULFONIC ACID (PFPES)	3.42	3.57	1.63	4.29	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANOIC ACID (PFPEA)	7.5	7.59	3.26	1.19	FALSE	TRUE	TRUE	FALSE
PERFLUOROTETRADECANOIC ACID (PFTEA)	0.874	0.917	1.63	4.80	FALSE	FALSE	FALSE	FALSE
PERFLUOROTRIDECANOIC ACID (PFTRIA)	0.739	0.776	1.63	4.88	FALSE	FALSE	FALSE	FALSE
PERFLUOROUNDECANOIC ACID (PFUNA)	0.413	0.434	1.63	4.96	FALSE	FALSE	FALSE	FALSE

Battelle

The Business of Innovation

Chain-of-Custody

Client Contact Information	Project Manager: Heather Thurston	Sampling Site: Surface Water	Site Information: NAS JRB Willow Grove
Tricia Moore 234 Mall Boulevard, Suite 260 King of Prussia, PA 19406 610-382-1170	Sampler Information (print name): Chris Sinisi Phone: 610-382-1524 Email: chris.sinisi@tetratech.com Turnaround Time (TAT) Requested: 21 days	Preservative: None	COC #
Project Name: Surface Water Sampling Project No.: **WR-125**	Normal ☑ Priority ☐ RUSH ☐ Time Zone: Eastern	Analysis: PFAS by EPA Draft Method 1633 compliant with Table B-24 of the QSM	Page# 1 of 1

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	PFAS by EPA Draft Method 1633 compliant with Table B-24 of the QSM	
WGNA-FB-20240318	3/18/2024	1000	G	QC	2	X	C2669 Field Blank
WGNA-SW-NCREF4-20240318	3/18/2024	1030	G	SW	3	X	70
WGNA-SW-56-20240318	3/18/2024	1205	G	SW	3	X	71
WGNA-SW-47-20240318	3/18/2024	1240	G	SW	3	X	72
WGNA-SW-48-20240318	3/18/2024	1300	G	SW	3	X	73
WGNA-SW-46-20240318	3/18/2024	1315	G	SW	3	X	74
WGNA-SW-45-20240318	3/18/2024	1328	G	SW	3	X	75
WGNA-SW-49-20240318	3/18/2024	1405	G	SW	3	X	76
WGNA-SW-54-20240318	3/18/2024	1420	G	SW	3	X	77
WGNA-SW-DUP-01-20240318	3/18/2024	0000	G	SW	3	X	C2678

Receipt Temperature:(°C)	*Samples Intact: Yes - No*	*Samples on Ice: Yes - No*	*Receipt Comments:*

Relinquished by (Print Sign): Chris Sinisi	Company: Tetra Tech	Date/Time: 3/18/2024 1800	Received by (Print Sign):	Company: BNO	Date/Time: 3/19/24 1000
Relinquished by (Print Sign):	Company:	Date/Time:	Received by (Print Sign):	Company:	Date/Time:
Relinquished by (Print Sign):	Company:	Date/Time:	Received by (Print Sign):	Company:	Date/Time:

Comments: FedEx Tracking # 7755 8923 7785

Sample Summary

Client: Tetra Tech
SDG: 24-0204
Project/Site: NAS JRB Willow Grove
CTO: WE04

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DQ745PB-FS	Procedural Blank	WATER	3/20/2024	3/20/2024
DQ746LCS-FS	Laboratory Control Sample	WATER	3/20/2024	3/20/2024
DQ747LCS-FS	Laboratory Control Sample	WATER	3/20/2024	3/20/2024
C2669-FS	WGNA-FB-20240318	QC	3/18/2024	3/19/2024
C2670-FS	WGNA-SW-NCREF4-20240318	SW	3/18/2024	3/19/2024
C2671-FS	WGNA-SW-56-20240318	SW	3/18/2024	3/19/2024
C2672-FS	WGNA-SW-47-20240318	SW	3/18/2024	3/19/2024
C2673-FS	WGNA-SW-48-20240318	SW	3/18/2024	3/19/2024
C2674-FS	WGNA-SW-46-20240318	SW	3/18/2024	3/19/2024
C2675-FS	WGNA-SW-45-20240318	SW	3/18/2024	3/19/2024
C2676-FS	WGNA-SW-49-20240318	SW	3/18/2024	3/19/2024
C2677-FS	WGNA-SW-54-20240318	SW	3/18/2024	3/19/2024
C2678-FS	WGNA-SW-DUP-01-20240318	SW	3/18/2024	3/19/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MC66 IB				MC66 IB			
Battelle ID		MC66 IB_03/20/2024 21:29				MC66 IB_03/20/2024 23:23			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/20/2024				03/20/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MC66 IB	MC66 IB
Battelle ID	MC66 IB_03/20/2024 21:29	MC66 IB_03/20/2024 23:23
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/20/2024	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L

EIS Recoveries (%)

13C4-PFBA	99	101
13C5-PFPeA	105	103
13C5-PFHxA	110	109
13C4-PFHpA	105	107
13C8-PFOA	105	105
13C9-PFNA	105	107
13C6-PFDA	99	102
13C7-PFUnA	100	111
13C2-PFDoA	109	110
13C2-PFTeDA	97	108
13C3-PFBS	112	105
13C3-PFHxS	98	95
13C8-PFOS	98	102
13C2-4:2FTS	127	121
13C2-6:2FTS	109	113
13C2-8:2FTS	104	110
13C8-PFOSA	110	105
d3-MeFOSA	103	104
d5-EtFOSA	100	102
d3-MeFOSAA	108	105
d5-EtFOSAA	109	115
d7-MeFOSE	100	105
d9-EtFOSE	107	103
13C3-HFPO-DA	103	111

NIS Recoveries (%)

13C3-PFBA	113	98
13C2-PFHxA	109	91
13C4-PFOA	105	90
13C5-PFNA	107	93
13C2-PFDA	110	91
18O2-PFHxS	116	99
13C4-PFOS	109	89

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MC66 IB				MC66 IB			
Battelle ID		MC66 IB_03/21/2024 03:11				MC66 IB_03/21/2024 06:36			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/21/2024				03/21/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MC66 IB	MC66 IB
Battelle ID	MC66 IB_03/21/2024 03:11	MC66 IB_03/21/2024 06:36
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/21/2024	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L

EIS Recoveries (%)

13C4-PFBA	99	102
13C5-PFPeA	102	99
13C5-PFHxA	107	111
13C4-PFHpA	108	106
13C8-PFOA	101	109
13C9-PFNA	100	106
13C6-PFDA	94	88
13C7-PFUnA	95	96
13C2-PFDoA	105	91
13C2-PFTeDA	101	95
13C3-PFBS	117	98
13C3-PFHxS	105	91
13C8-PFOS	104	103
13C2-4:2FTS	128	122
13C2-6:2FTS	127	101
13C2-8:2FTS	136	98
13C8-PFOSA	104	99
d3-MeFOSA	105	106
d5-EtFOSA	103	106
d3-MeFOSAA	110	114
d5-EtFOSAA	112	123
d7-MeFOSE	106	104
d9-EtFOSE	104	108
13C3-HFPO-DA	107	116

NIS Recoveries (%)

13C3-PFBA	98	95
13C2-PFHxA	92	92
13C4-PFOA	93	91
13C5-PFNA	88	96
13C2-PFDA	94	99
18O2-PFHxS	87	107
13C4-PFOS	89	89

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MC66 IB			
Battelle ID		MC66 IB_03/21/2024 14:13			
Sample Type		IB			
Collection Date		NA			
Extraction Date		NA			
Analysis Date		03/21/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA			
Matrix		Water			
Sample Size		0.500			
Size Unit-Basis		L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MC66 IB
Battelle ID	MC66 IB_03/21/2024 14:13
Sample Type	IB
Collection Date	NA
Extraction Date	NA
Analysis Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	Water
Sample Size	0.500
Size Unit-Basis	L

EIS Recoveries (%)

13C4-PFBA	102
13C5-PFPeA	103
13C5-PFHxA	108
13C4-PFHpA	113
13C8-PFOA	98
13C9-PFNA	96
13C6-PFDA	92
13C7-PFUnA	100
13C2-PFDoA	98
13C2-PFTeDA	90
13C3-PFBS	103
13C3-PFHxS	88
13C8-PFOS	99
13C2-4:2FTS	138
13C2-6:2FTS	114
13C2-8:2FTS	99
13C8-PFOSA	103
d3-MeFOSA	103
d5-EtFOSA	107
d3-MeFOSAA	106
d5-EtFOSAA	117
d7-MeFOSE	107
d9-EtFOSE	107
13C3-HFPO-DA	101

NIS Recoveries (%)

13C3-PFBA	97
13C2-PFHxA	93
13C4-PFOA	97
13C5-PFNA	94
13C2-PFDA	101
18O2-PFHxS	107
13C4-PFOS	92

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ745PB-FS
Sample Type	PB
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.515
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.16 U	DQ745PB-FS(0)	1.000	3/20/2024	0.580	1.16	6.21
PFPeA	2706-90-3	1.09 U	DQ745PB-FS(0)	1.000	3/20/2024	0.547	1.09	3.11
PFHxA	307-24-4	0.800 U	DQ745PB-FS(0)	1.000	3/20/2024	0.400	0.800	1.55
PFHpA	375-85-9	0.336 U	DQ745PB-FS(0)	1.000	3/20/2024	0.168	0.336	1.55
PFOA	335-67-1	0.563 U	DQ745PB-FS(0)	1.000	3/20/2024	0.282	0.563	1.55
PFNA	375-95-1	0.485 U	DQ745PB-FS(0)	1.000	3/20/2024	0.243	0.485	1.55
PFDA	335-76-2	0.433 U	DQ745PB-FS(0)	1.000	3/20/2024	0.217	0.433	1.55
PFUnA	2058-94-8	0.394 U	DQ745PB-FS(0)	1.000	3/20/2024	0.197	0.394	1.55
PFDoA	307-55-1	0.584 U	DQ745PB-FS(0)	1.000	3/20/2024	0.292	0.584	1.55
PFTrDA	72629-94-8	0.705 U	DQ745PB-FS(0)	1.000	3/20/2024	0.352	0.705	1.55
PFTeDA	376-06-7	0.833 U	DQ745PB-FS(0)	1.000	3/20/2024	0.417	0.833	1.55
PFBS	375-73-5	0.344 U	DQ745PB-FS(0)	1.000	3/20/2024	0.172	0.344	1.55
PFPeS	2706-91-4	0.250 U	DQ745PB-FS(0)	1.000	3/20/2024	0.125	0.250	1.55
PFHxS	355-46-4	0.565 U	DQ745PB-FS(0)	1.000	3/20/2024	0.283	0.565	1.55
PFHpS	375-92-8	0.396 U	DQ745PB-FS(0)	1.000	3/20/2024	0.198	0.396	1.55
PFOS	1763-23-1	0.482 U	DQ745PB-FS(0)	1.000	3/20/2024	0.241	0.482	1.55
PFNS	68259-12-1	0.483 U	DQ745PB-FS(0)	1.000	3/20/2024	0.242	0.483	1.55
PFDS	335-77-3	0.315 U	DQ745PB-FS(0)	1.000	3/20/2024	0.157	0.315	1.55
PFDoS	79780-39-5	0.350 U	DQ745PB-FS(0)	1.000	3/20/2024	0.175	0.350	1.55
4:2FTS	757124-72-4	2.56 U	DQ745PB-FS(0)	1.000	3/20/2024	1.28	2.56	6.21
6:2FTS	27619-97-2	2.87 U	DQ745PB-FS(0)	1.000	3/20/2024	1.44	2.87	6.21
8:2FTS	39108-34-4	1.78 U	DQ745PB-FS(0)	1.000	3/20/2024	0.889	1.78	6.21
PFOSA	754-91-6	0.365 U	DQ745PB-FS(0)	1.000	3/20/2024	0.183	0.365	1.55
NMeFOSA	31506-32-8	0.386 U	DQ745PB-FS(0)	1.000	3/20/2024	0.193	0.386	1.55
NEtFOSA	4151-50-2	0.194 U	DQ745PB-FS(0)	1.000	3/20/2024	0.0969	0.194	1.55
NMeFOSAA	2355-31-9	1.27 U	DQ745PB-FS(0)	1.000	3/20/2024	0.636	1.27	1.55
NEtFOSAA	2991-50-6	1.11 U	DQ745PB-FS(0)	1.000	3/20/2024	0.554	1.11	1.55
NMeFOSE	24448-09-7	3.20 U	DQ745PB-FS(0)	1.000	3/20/2024	1.60	3.20	15.5
NEtFOSE	1691-99-2	2.82 U	DQ745PB-FS(0)	1.000	3/20/2024	1.41	2.82	15.5
HFPO-DA	13252-13-6	1.45 U	DQ745PB-FS(0)	1.000	3/20/2024	0.726	1.45	6.21
Adona	919005-14-4	1.35 U	DQ745PB-FS(0)	1.000	3/20/2024	0.674	1.35	6.21
PFMPA	377-73-1	1.22 U	DQ745PB-FS(0)	1.000	3/20/2024	0.610	1.22	3.11
PFMBA	863090-89-5	1.17 U	DQ745PB-FS(0)	1.000	3/20/2024	0.583	1.17	3.11
NFDHA	151772-58-6	1.48 U	DQ745PB-FS(0)	1.000	3/20/2024	0.738	1.48	3.11
9Cl-PF3ONS	756426-58-1	1.36 U	DQ745PB-FS(0)	1.000	3/20/2024	0.679	1.36	6.21
11Cl-PF3OUdS	763051-92-9	2.12 U	DQ745PB-FS(0)	1.000	3/20/2024	1.06	2.12	6.21
PFEESA	113507-82-7	0.412 U	DQ745PB-FS(0)	1.000	3/20/2024	0.206	0.412	3.11
3:3 FTCA	356-02-5	3.24 U	DQ745PB-FS(0)	1.000	3/20/2024	1.62	3.24	7.77
5:3 FTCA	914637-49-3	8.66 U	DQ745PB-FS(0)	1.000	3/20/2024	4.33	8.66	38.8
7:3 FTCA	812-70-4	10.1 U	DQ745PB-FS(0)	1.000	3/20/2024	5.07	10.1	38.8

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ745PB-FS
Sample Type	PB
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	89	DQ745PB-FS(0)	3/20/2024
13C5-PFPeA	86	DQ745PB-FS(0)	3/20/2024
13C5-PFHxA	85	DQ745PB-FS(0)	3/20/2024
13C4-PFHpA	90	DQ745PB-FS(0)	3/20/2024
13C8-PFOA	89	DQ745PB-FS(0)	3/20/2024
13C9-PFNA	85	DQ745PB-FS(0)	3/20/2024
13C6-PFDA	87	DQ745PB-FS(0)	3/20/2024
13C7-PFUnA	78	DQ745PB-FS(0)	3/20/2024
13C2-PFDoA	91	DQ745PB-FS(0)	3/20/2024
13C2-PFTeDA	83	DQ745PB-FS(0)	3/20/2024
13C3-PFBS	88	DQ745PB-FS(0)	3/20/2024
13C3-PFHxS	88	DQ745PB-FS(0)	3/20/2024
13C8-PFOS	90	DQ745PB-FS(0)	3/20/2024
13C2-4:2FTS	116	DQ745PB-FS(0)	3/20/2024
13C2-6:2FTS	96	DQ745PB-FS(0)	3/20/2024
13C2-8:2FTS	100	DQ745PB-FS(0)	3/20/2024
13C8-PFOSA	90	DQ745PB-FS(0)	3/20/2024
d3-MeFOSA	70	DQ745PB-FS(0)	3/20/2024
d5-EtFOSA	72	DQ745PB-FS(0)	3/20/2024
d3-MeFOSAA	93	DQ745PB-FS(0)	3/20/2024
d5-EtFOSAA	99	DQ745PB-FS(0)	3/20/2024
d7-MeFOSE	92	DQ745PB-FS(0)	3/20/2024
d9-EtFOSE	84	DQ745PB-FS(0)	3/20/2024
13C3-HFPO-DA	79	DQ745PB-FS(0)	3/20/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	77	DQ745PB-FS(0)	3/20/2024
13C2-PFHxA	77	DQ745PB-FS(0)	3/20/2024
13C4-PFOA	76	DQ745PB-FS(0)	3/20/2024
13C5-PFNA	76	DQ745PB-FS(0)	3/20/2024
13C2-PFDA	72	DQ745PB-FS(0)	3/20/2024
18O2-PFHxS	78	DQ745PB-FS(0)	3/20/2024
13C4-PFOS	70	DQ745PB-FS(0)	3/20/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ746LCS-FS
Sample Type	OPR
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.493
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	94.1	DQ746LCS-FS(0)	1.000	3/21/2024	81.1	116		70	140
PFPeA	2706-90-3	46.9	DQ746LCS-FS(0)	1.000	3/21/2024	40.6	116		65	135
PFHxA	307-24-4	23.3	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	115		70	145
PFHpA	375-85-9	21.9	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	108		70	150
PFOA	335-67-1	30.1	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	148		70	150
PFNA	375-95-1	29.1	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	143		70	150
PFDA	335-76-2	24.0	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	118		70	140
PFUnA	2058-94-8	26.7	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	132		70	145
PFDoA	307-55-1	24.0	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	118		70	140
PFTrDA	72629-94-8	25.4	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	125		65	140
PFTeDA	376-06-7	26.2	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	129		60	140
PFBS	375-73-5	20.3	DQ746LCS-FS(0)	1.000	3/21/2024	18.0	113		60	145
PFPeS	2706-91-4	22.5	DQ746LCS-FS(0)	1.000	3/21/2024	19.1	118		65	140
PFHxS	355-46-4	20.6	DQ746LCS-FS(0)	1.000	3/21/2024	18.5	111		65	145
PFHpS	375-92-8	24.1	DQ746LCS-FS(0)	1.000	3/21/2024	19.3	125		70	150
PFOS	1763-23-1	23.4	DQ746LCS-FS(0)	1.000	3/21/2024	18.8	124		55	150
PFNS	68259-12-1	23.1	DQ746LCS-FS(0)	1.000	3/21/2024	19.5	118		65	145
PFDS	335-77-3	22.0	DQ746LCS-FS(0)	1.000	3/21/2024	19.6	112		60	145
PFDoS	79780-39-5	22.4	DQ746LCS-FS(0)	1.000	3/21/2024	19.7	114		50	145
4:2FTS	757124-72-4	93.2	DQ746LCS-FS(0)	1.000	3/21/2024	76.1	122		70	145
6:2FTS	27619-97-2	89.0	DQ746LCS-FS(0)	1.000	3/21/2024	77.1	115		65	155
8:2FTS	39108-34-4	96.8	DQ746LCS-FS(0)	1.000	3/21/2024	77.9	124		60	150
PFOSA	754-91-6	24.8	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	122		70	145
NMeFOSA	31506-32-8	24.1	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	119		60	150
NEtFOSA	4151-50-2	21.9	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	108		65	145
NMeFOSAA	2355-31-9	22.4	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	110		50	140
NEtFOSAA	2991-50-6	25.3	DQ746LCS-FS(0)	1.000	3/21/2024	20.3	125		70	145
NMeFOSE	24448-09-7	237	DQ746LCS-FS(0)	1.000	3/21/2024	203	117		70	145
NEtFOSE	1691-99-2	245	DQ746LCS-FS(0)	1.000	3/21/2024	203	121		70	135
HFPO-DA	13252-13-6	90.4	DQ746LCS-FS(0)	1.000	3/21/2024	81.1	111		70	140
Adona	919005-14-4	94.9	DQ746LCS-FS(0)	1.000	3/21/2024	76.7	124		65	145
PFMPA	377-73-1	47.1	DQ746LCS-FS(0)	1.000	3/21/2024	40.6	116		55	140
PFMBA	863090-89-5	47.9	DQ746LCS-FS(0)	1.000	3/21/2024	40.6	118		60	150
NFDHA	151772-58-6	46.9	DQ746LCS-FS(0)	1.000	3/21/2024	40.6	116		50	150
9Cl-PF3ONS	756426-58-1	86.0	DQ746LCS-FS(0)	1.000	3/21/2024	75.9	113		70	155
11Cl-PF3OUdS	763051-92-9	89.5	DQ746LCS-FS(0)	1.000	3/21/2024	76.7	117		55	160
PFEESA	113507-82-7	46.5	DQ746LCS-FS(0)	1.000	3/21/2024	36.1	129		70	140
3:3 FTCA	356-02-5	113	DQ746LCS-FS(0)	1.000	3/21/2024	101	112		65	130
5:3 FTCA	914637-49-3	564	DQ746LCS-FS(0)	1.000	3/21/2024	507	111		70	135
7:3 FTCA	812-70-4	545	DQ746LCS-FS(0)	1.000	3/21/2024	507	107		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ746LCS-FS
Sample Type	OPR
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	87	DQ746LCS-FS(0)	3/21/2024
13C5-PFPeA	92	DQ746LCS-FS(0)	3/21/2024
13C5-PFHxA	92	DQ746LCS-FS(0)	3/21/2024
13C4-PFHpA	98	DQ746LCS-FS(0)	3/21/2024
13C8-PFOA	92	DQ746LCS-FS(0)	3/21/2024
13C9-PFNA	82	DQ746LCS-FS(0)	3/21/2024
13C6-PFDA	78	DQ746LCS-FS(0)	3/21/2024
13C7-PFUnA	73	DQ746LCS-FS(0)	3/21/2024
13C2-PFDoA	75	DQ746LCS-FS(0)	3/21/2024
13C2-PFTeDA	75	DQ746LCS-FS(0)	3/21/2024
13C3-PFBS	85	DQ746LCS-FS(0)	3/21/2024
13C3-PFHxS	83	DQ746LCS-FS(0)	3/21/2024
13C8-PFOS	92	DQ746LCS-FS(0)	3/21/2024
13C2-4:2FTS	101	DQ746LCS-FS(0)	3/21/2024
13C2-6:2FTS	93	DQ746LCS-FS(0)	3/21/2024
13C2-8:2FTS	85	DQ746LCS-FS(0)	3/21/2024
13C8-PFOSA	88	DQ746LCS-FS(0)	3/21/2024
d3-MeFOSA	70	DQ746LCS-FS(0)	3/21/2024
d5-EtFOSA	72	DQ746LCS-FS(0)	3/21/2024
d3-MeFOSAA	103	DQ746LCS-FS(0)	3/21/2024
d5-EtFOSAA	98	DQ746LCS-FS(0)	3/21/2024
d7-MeFOSE	89	DQ746LCS-FS(0)	3/21/2024
d9-EtFOSE	84	DQ746LCS-FS(0)	3/21/2024
13C3-HFPO-DA	92	DQ746LCS-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	78	DQ746LCS-FS(0)	3/21/2024
13C2-PFHxA	72	DQ746LCS-FS(0)	3/21/2024
13C4-PFOA	70	DQ746LCS-FS(0)	3/21/2024
13C5-PFNA	77	DQ746LCS-FS(0)	3/21/2024
13C2-PFDA	78	DQ746LCS-FS(0)	3/21/2024
18O2-PFHxS	82	DQ746LCS-FS(0)	3/21/2024
13C4-PFOS	68	DQ746LCS-FS(0)	3/21/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ747LCS-FS
Sample Type	LLOPR
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.499
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	12.9	DQ747LCS-FS(0)	1.000	3/21/2024	12.8	101		70	140
PFPeA	2706-90-3	6.47	DQ747LCS-FS(0)	1.000	3/21/2024	6.41	101		65	135
PFHxA	307-24-4	3.09	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	96		70	145
PFHpA	375-85-9	3.11	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	97		70	150
PFOA	335-67-1	4.25	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	132		70	150
PFNA	375-95-1	4.04	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	126		70	150
PFDA	335-76-2	3.16	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	98		70	140
PFUnA	2058-94-8	4.22	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	131		70	145
PFDoA	307-55-1	3.49	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	109		70	140
PFTrDA	72629-94-8	3.81	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	119		65	140
PFTeDA	376-06-7	3.97	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	124		60	140
PFBS	375-73-5	2.86	DQ747LCS-FS(0)	1.000	3/21/2024	2.84	101		60	145
PFPeS	2706-91-4	2.74	DQ747LCS-FS(0)	1.000	3/21/2024	3.02	91		65	140
PFHxS	355-46-4	2.88	DQ747LCS-FS(0)	1.000	3/21/2024	2.93	98		65	145
PFHpS	375-92-8	3.57	DQ747LCS-FS(0)	1.000	3/21/2024	3.06	117		70	150
PFOS	1763-23-1	3.31	DQ747LCS-FS(0)	1.000	3/21/2024	2.98	111		55	150
PFNS	68259-12-1	3.28	DQ747LCS-FS(0)	1.000	3/21/2024	3.08	106		65	145
PFDS	335-77-3	3.45	DQ747LCS-FS(0)	1.000	3/21/2024	3.09	112		60	145
PFDoS	79780-39-5	3.55	DQ747LCS-FS(0)	1.000	3/21/2024	3.11	114		50	145
4:2FTS	757124-72-4	12.7	DQ747LCS-FS(0)	1.000	3/21/2024	12.0	106		70	145
6:2FTS	27619-97-2	13.2	DQ747LCS-FS(0)	1.000	3/21/2024	12.2	108		65	155
8:2FTS	39108-34-4	12.6	DQ747LCS-FS(0)	1.000	3/21/2024	12.3	102		60	150
PFOSA	754-91-6	3.55	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	111		70	145
NMeFOSA	31506-32-8	3.00	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	93		60	150
NEtFOSA	4151-50-2	3.54	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	110		65	145
NMeFOSAA	2355-31-9	3.05	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	95		50	140
NEtFOSAA	2991-50-6	2.34	DQ747LCS-FS(0)	1.000	3/21/2024	3.21	73		70	145
NMeFOSE	24448-09-7	31.6	DQ747LCS-FS(0)	1.000	3/21/2024	32.1	98		70	145
NEtFOSE	1691-99-2	33.2	DQ747LCS-FS(0)	1.000	3/21/2024	32.1	103		70	135
HFPO-DA	13252-13-6	13.7	DQ747LCS-FS(0)	1.000	3/21/2024	12.8	107		70	140
Adona	919005-14-4	14.0	DQ747LCS-FS(0)	1.000	3/21/2024	12.1	116		65	145
PFMPA	377-73-1	5.96	DQ747LCS-FS(0)	1.000	3/21/2024	6.41	93		55	140
PFMBA	863090-89-5	6.59	DQ747LCS-FS(0)	1.000	3/21/2024	6.41	103		60	150
NFDHA	151772-58-6	6.01	DQ747LCS-FS(0)	1.000	3/21/2024	6.41	94		50	150
9Cl-PF3ONS	756426-58-1	12.4	DQ747LCS-FS(0)	1.000	3/21/2024	12.0	103		70	155
11Cl-PF3OUdS	763051-92-9	13.5	DQ747LCS-FS(0)	1.000	3/21/2024	12.1	112		55	160
PFEESA	113507-82-7	6.39	DQ747LCS-FS(0)	1.000	3/21/2024	5.71	112		70	140
3:3 FTCA	356-02-5	15.0	DQ747LCS-FS(0)	1.000	3/21/2024	16.0	94		65	130
5:3 FTCA	914637-49-3	74.1	DQ747LCS-FS(0)	1.000	3/21/2024	80.2	92		70	135
7:3 FTCA	812-70-4	72.0	DQ747LCS-FS(0)	1.000	3/21/2024	80.2	90		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ747LCS-FS
Sample Type	LLOPR
Collection Date	03/20/2024
Extraction Date	03/20/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	90	DQ747LCS-FS(0)	3/21/2024
13C5-PFPeA	90	DQ747LCS-FS(0)	3/21/2024
13C5-PFHxA	94	DQ747LCS-FS(0)	3/21/2024
13C4-PFHpA	93	DQ747LCS-FS(0)	3/21/2024
13C8-PFOA	88	DQ747LCS-FS(0)	3/21/2024
13C9-PFNA	92	DQ747LCS-FS(0)	3/21/2024
13C6-PFDA	88	DQ747LCS-FS(0)	3/21/2024
13C7-PFUnA	68	DQ747LCS-FS(0)	3/21/2024
13C2-PFDoA	79	DQ747LCS-FS(0)	3/21/2024
13C2-PFTeDA	73	DQ747LCS-FS(0)	3/21/2024
13C3-PFBS	96	DQ747LCS-FS(0)	3/21/2024
13C3-PFHxS	93	DQ747LCS-FS(0)	3/21/2024
13C8-PFOS	83	DQ747LCS-FS(0)	3/21/2024
13C2-4:2FTS	122	DQ747LCS-FS(0)	3/21/2024
13C2-6:2FTS	96	DQ747LCS-FS(0)	3/21/2024
13C2-8:2FTS	97	DQ747LCS-FS(0)	3/21/2024
13C8-PFOSA	84	DQ747LCS-FS(0)	3/21/2024
d3-MeFOSA	74	DQ747LCS-FS(0)	3/21/2024
d5-EtFOSA	71	DQ747LCS-FS(0)	3/21/2024
d3-MeFOSAA	105	DQ747LCS-FS(0)	3/21/2024
d5-EtFOSAA	108	DQ747LCS-FS(0)	3/21/2024
d7-MeFOSE	89	DQ747LCS-FS(0)	3/21/2024
d9-EtFOSE	83	DQ747LCS-FS(0)	3/21/2024
13C3-HFPO-DA	88	DQ747LCS-FS(0)	3/21/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	76	DQ747LCS-FS(0)	3/21/2024
13C2-PFHxA	76	DQ747LCS-FS(0)	3/21/2024
13C4-PFOA	77	DQ747LCS-FS(0)	3/21/2024
13C5-PFNA	69	DQ747LCS-FS(0)	3/21/2024
13C2-PFDA	80	DQ747LCS-FS(0)	3/21/2024
18O2-PFHxS	77	DQ747LCS-FS(0)	3/21/2024
13C4-PFOS	71	DQ747LCS-FS(0)	3/21/2024

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Glossary of Data Qualifiers

Flag:	Application:
B	Analyte detected in the Procedural Blank above 1/2 the Limit of Quantitation (LOQ)
B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
J	Analyte detected below the Limit of Quantitation (LOQ)
MI	Significant Matrix Interference - value could not be determined.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Detection Limit (DL) value, Limit of Detection (LOD) reported
I	Ion ratio outside of criteria (50% difference from calibration expected ratio)

QA/QC Summary
Batch 24-0204

Project:	CTO-WE04: WR125 NAS JRB Willow Grove
Client Project Manager:	Rocco Mercuri
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	SW, QC
Data Set:	DP-24-0231
Analytical SOP:	5-381
Method Reference:	*Draft* EPA 1633

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
3/18/2024	3/19/2024	1.2
Corrective Actions	None.	
Sample Storage	Samples stored frozen until extraction.	
Related samples	None.	

	METHOD SUMMARIES
Sample Preparation	Water samples were fortified with surrogates in the original sample container from the field. The water was extracted using a Weak-anion exchange (WAX) / carbon (GCB) solid phase extraction (SPE) cartridge. Target analytes are eluted from the WAX/GCB SPE using 1% NH_3OH in methanol. Extracts were acidified with acetic acid, fortified with internal standards and transferred to LC-MS/MS for analysis.
Prep comments	pH of all samples prior to SPE extraction was verified between 6.5 ± 0.5. Samples C2670-FS (WGNA-SW-NCREF4-20240318), C2671-FS (WGNA-SW-56-20240318), C2672-FS (WGNA-SW-47-20240318), C2673-FS (WGNA-SW-48-20240318), C2674-FS (WGNA-SW-46-20240318), C2675-FS (WGNA-SW-45-20240318), C2676-FS (WGNA-SW-49-20240318), C2677-FS (WGNA-SW-54-20240318), and C2678-FS (WGNA-SW-DUP-01-20240318) contained particulates.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations to three (3) significant figures.
Analysis Comments	Samples analyzed on Sciex 6500+ (AG) LC-MS/MS. The calibration curve contains branched and linear isomers for PFOA, PFNA, PFHxS, PFOS, PFOSA, MeFOSAA, EtFOSAA, MeFOSA, EtFOSA, MeFOSE, and EtFOSE. Individual samples are reviewed for linear and branched isomers. The Branched Checklist Report included in the Miscellaneous Documentation section of the data package indicates if the analyte reported contains linear, branched, or a mix of isomers.

QA/QC Summary
Batch 24-0204

	Due to potential matrix interferences, the following quantifications updates were made for this batch: • 13C2-4:2FTS quantified using 13C3-PFBA. Due to software constraints, PFTrDA is quantified using 13C2-PFTeDA, not an average of 13C2-PFDoA and 13C2-PFTeDA. Secondary exceedances for calibrations, ICC, and CCV samples are not documented as the secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

Holding Times	Extraction Date(s)	Analysis Date(s)
	3/20/2024	3/20 – 21/2024

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
≤ ½ the LOQ Samples >10x PB	No exceedances noted.
	No comments.

Ongoing Precision and Recovery (OPR or LLOPR)	An OPR and LLOPR were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4 for recovery and <30% RPD	Project specific MS/MSD not included in this data set.
	No comments.

Extracted Internal Standard Analytes (EIS)	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Non-Extracted Internal Standard (NIS) Analytes	Labelled analog compounds were added prior to analysis.
> 30% recovery based on the average area of the calibration curve.	No exceedances noted.
	No comments.

QA/QC Summary
Batch 24-0204

Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
Relative Standard Deviation (RSD) of RR or RF ≤ 20%	No exceedances noted.
	No comments.

Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.

Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Laboratory Duplicate Precision	NA	None
Matrix Spike / Matrix Spike Duplicate Recovery	NA	None
Matrix Spike / Matrix Spike Duplicate Precision	NA	None
Extracted Internal Standard Analytes (EIS)	0	None
Non-Extracted Internal Standards (NIS)	0	None

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BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title:	NAS JRB Willow Grove	**Data Set Number:**	DP-24-0231
Project Number:	G00078.XX.XX.0125.000001	**Prep Batch Number:**	24-0204
Entered By:	Kevin Bailey	**Entered On:**	03/21/2024
Test Code (Matrix Type):	EPA_1633(L)		

Samples that were manually integrated are noted on the Manual Integration reports with the comment “Manual” under the Integration Type columns. Changes were made due to incorrect auto integration of a peak by the data system. The analyst’s initials on this statement indicate that all integrations were reviewed and approved by the analyst performing the analysis.
KB 3/21/2024

Due to potential matrix interferences, the following quantifications updates were made for this batch:
- 13C2-4:2FTS quantified using 13C3-PFBA.

Task Leader Approval:

SupervisorApproval:

PM Approval:

Digitally signed by Robert Lizotte, Jr.
Date: 2024.03.22 09:19:48 -04'00'

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFBA **(**212.8 / 168.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFBA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFBA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFBA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFBA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFBA	Baseline
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C4-PFBA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C4-PFBA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C4-PFBA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFBA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFBA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFBA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C4-PFBA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C4-PFBA	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C4-PFBA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFBA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFBA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C4-PFBA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFBA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFBA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFBA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C4-PFBA	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFBA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFBA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFBA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C4-PFBA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFBA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C4-PFBA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C4-PFBA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C4-PFBA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C4-PFBA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C4-PFBA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFBA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C4-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFPeA (263.0 / 219.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFPeA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFPeA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C5-PFPeA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFPeA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C5-PFPeA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFPeA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFPeA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFPeA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFPeA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFPeA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFPeA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFPeA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFPeA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C5-PFPeA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C5-PFPeA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C5-PFPeA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFPeA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C5-PFPeA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C5-PFPeA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C5-PFPeA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C5-PFPeA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C5-PFPeA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C5-PFPeA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFPeA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFPeA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFPeA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFPeA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHxA_1 **(**313.0 / 269.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHxA_2 **(**313.0 / 118.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHpA_1 **(**363.1 / 319.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFHpA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C4-PFHpA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFHpA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFHpA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFHpA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFHpA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C4-PFHpA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C4-PFHpA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C4-PFHpA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C4-PFHpA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFHpA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C4-PFHpA	Baseline
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFHpA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFHpA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C4-PFHpA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFHpA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFHpA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFHpA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFHpA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFHpA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C4-PFHpA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C4-PFHpA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C4-PFHpA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C4-PFHpA	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C4-PFHpA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHpA_2 **(**363.1 / 169.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C4-PFHpA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C4-PFHpA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFHpA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFHpA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C4-PFHpA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFHpA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C4-PFHpA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C4-PFHpA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C4-PFHpA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFHpA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFHpA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C4-PFHpA	Baseline
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFHpA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFHpA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C4-PFHpA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFHpA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFHpA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFHpA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFHpA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFHpA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFHpA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C4-PFHpA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C4-PFHpA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C4-PFHpA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFHpA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C4-PFHpA	Valley

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Manual Integration Report

Analyte: PFOA_1 **(**413.0 / 369.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C8-PFOA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C8-PFOA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C8-PFOA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C8-PFOA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C8-PFOA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C8-PFOA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C8-PFOA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C8-PFOA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C8-PFOA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOA	Baseline

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Manual Integration Report

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Analyte: PFOA_2 **(**413.0 / 169.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C8-PFOA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C8-PFOA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C8-PFOA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C8-PFOA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C8-PFOA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C8-PFOA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C8-PFOA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C8-PFOA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOA	Baseline

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Analyte: PFNA_1 **(**463.0 / 419.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C9-PFNA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C9-PFNA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C9-PFNA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C9-PFNA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C9-PFNA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C9-PFNA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C9-PFNA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C9-PFNA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C9-PFNA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C9-PFNA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C9-PFNA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C9-PFNA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C9-PFNA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C9-PFNA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C9-PFNA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C9-PFNA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C9-PFNA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C9-PFNA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C9-PFNA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C9-PFNA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C9-PFNA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C9-PFNA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C9-PFNA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C9-PFNA	Baseline
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C9-PFNA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C9-PFNA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C9-PFNA	Valley

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Analyte: PFNA_2 **(**463.0 / 219.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C9-PFNA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C9-PFNA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C9-PFNA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C9-PFNA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C9-PFNA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C9-PFNA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C9-PFNA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C9-PFNA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C9-PFNA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C9-PFNA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C9-PFNA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C9-PFNA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C9-PFNA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C9-PFNA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C9-PFNA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C9-PFNA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C9-PFNA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C9-PFNA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C9-PFNA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C9-PFNA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C9-PFNA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C9-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C9-PFNA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C9-PFNA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C9-PFNA	Baseline
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C9-PFNA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C9-PFNA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C9-PFNA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFDA_1 **(**512.9 / 469.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C6-PFDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C6-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C6-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C6-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C6-PFDA	Baseline
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C6-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C6-PFDA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C6-PFDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C6-PFDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C6-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C6-PFDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C6-PFDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C6-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C6-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C6-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C6-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C6-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C6-PFDA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C6-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C6-PFDA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C6-PFDA	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C6-PFDA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C6-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C6-PFDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C6-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C6-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C6-PFDA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C6-PFDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C6-PFDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C6-PFDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C6-PFDA	Valley

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Analyte: PFDA_2 **(**512.9 / 219.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C6-PFDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C6-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C6-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C6-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C6-PFDA	Baseline
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C6-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C6-PFDA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C6-PFDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C6-PFDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C6-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C6-PFDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C6-PFDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C6-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C6-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C6-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C6-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C6-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C6-PFDA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C6-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C6-PFDA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C6-PFDA	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C6-PFDA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C6-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C6-PFDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C6-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C6-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C6-PFDA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C6-PFDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C6-PFDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C6-PFDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C6-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C6-PFDA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFUnA_1 **(**563.1 / 519.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C7-PFUnA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C7-PFUnA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C7-PFUnA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C7-PFUnA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C7-PFUnA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C7-PFUnA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C7-PFUnA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C7-PFUnA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C7-PFUnA	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C7-PFUnA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C7-PFUnA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C7-PFUnA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C7-PFUnA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C7-PFUnA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C7-PFUnA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C7-PFUnA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C7-PFUnA	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C7-PFUnA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C7-PFUnA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C7-PFUnA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C7-PFUnA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C7-PFUnA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C7-PFUnA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C7-PFUnA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C7-PFUnA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C7-PFUnA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C7-PFUnA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C7-PFUnA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C7-PFUnA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFUnA_2 **(**563.1 / 269.1**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C7-PFUnA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C7-PFUnA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C7-PFUnA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C7-PFUnA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C7-PFUnA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C7-PFUnA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C7-PFUnA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C7-PFUnA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C7-PFUnA	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C7-PFUnA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C7-PFUnA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C7-PFUnA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C7-PFUnA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C7-PFUnA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C7-PFUnA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C7-PFUnA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C7-PFUnA	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C7-PFUnA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C7-PFUnA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C7-PFUnA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C7-PFUnA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C7-PFUnA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C7-PFUnA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C7-PFUnA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C7-PFUnA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C7-PFUnA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C7-PFUnA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C7-PFUnA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C7-PFUnA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C7-PFUnA	Valley

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFDoA_1 **(**613.1 / 569.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C2-PFDoA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C2-PFDoA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFDoA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C2-PFDoA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFDoA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFDoA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFDoA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C2-PFDoA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C2-PFDoA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFDoA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFDoA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFDoA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFDoA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFDoA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFDoA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFDoA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFDoA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFDoA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFDoA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFDoA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFDoA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFDoA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFDoA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFDoA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFDoA_2 **(**613.1 / 319.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFDoA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFDoA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFDoA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFDoA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFDoA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFDoA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFDoA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFDoA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFDoA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFDoA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFDoA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFDoA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFDoA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFDoA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFDoA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFDoA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFDoA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFDoA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFDoA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFDoA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDoA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFDoA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFTrDA_1 **(**663.0 / 619.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C2-PFTeDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFTeDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C2-PFTeDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFTeDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFTeDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFTeDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFTeDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFTeDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFTeDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFTeDA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C2-PFTeDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFTeDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFTeDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFTeDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFTeDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C2-PFTeDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFTeDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFTeDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFTeDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFTeDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFTeDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFTeDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFTeDA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFTeDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFTeDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFTrDA_2 **(**663.0 / 168.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFTeDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFTeDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFTeDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFTeDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFTeDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFTeDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFTeDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFTeDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFTeDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFTeDA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFTeDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFTeDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFTeDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFTeDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFTeDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFTeDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFTeDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFTeDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFTeDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFTeDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFTeDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFTeDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFTeDA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFTeDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFTeDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFTeDA_1 **(**713.0 / 669.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C2-PFTeDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C2-PFTeDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C2-PFTeDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFTeDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C2-PFTeDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFTeDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFTeDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFTeDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFTeDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFTeDA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFTeDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFTeDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFTeDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFTeDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFTeDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFTeDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFTeDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFTeDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFTeDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFTeDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFTeDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFTeDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFTeDA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFTeDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFTeDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFTeDA_2 **(**713.0 / 168.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C2-PFTeDA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFTeDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFTeDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFTeDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFTeDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-PFTeDA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C2-PFTeDA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-PFTeDA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-PFTeDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-PFTeDA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFTeDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C2-PFTeDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-PFTeDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-PFTeDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-PFTeDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFTeDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-PFTeDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-PFTeDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-PFTeDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-PFTeDA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-PFTeDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-PFTeDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-PFTeDA	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-PFTeDA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-PFTeDA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C2-PFTeDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFBS_1 **(**298.7 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-PFBS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-PFBS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-PFBS	Baseline
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-PFBS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-PFBS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-PFBS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFBS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFBS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFBS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFBS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFBS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFBS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C3-PFBS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C3-PFBS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFBS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFBS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C3-PFBS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C3-PFBS	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFBS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFBS	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFBS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-PFBS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-PFBS	Baseline
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFBS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFBS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFBS_2 **(**298.9 / 98.8**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-PFBS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-PFBS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-PFBS	Baseline
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C3-PFBS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-PFBS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFBS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFBS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFBS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFBS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFBS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFBS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C3-PFBS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C3-PFBS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFBS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFBS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C3-PFBS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C3-PFBS	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFBS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFBS	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFBS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-PFBS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-PFBS	Baseline
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFBS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-PFBS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFBS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFPeS_1 **(**349.1 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-PFHxS	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-PFHxS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C3-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-PFHxS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFHxS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFHxS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFHxS	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFHxS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C3-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C3-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C3-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C3-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C3-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFHxS	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-PFHxS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFHxS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFPeS_2 **(**349.1 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-PFHxS	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-PFHxS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C3-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-PFHxS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFHxS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFHxS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFHxS	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFHxS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C3-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C3-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C3-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C3-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C3-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFHxS	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-PFHxS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFHxS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHxS_1 **(**398.7 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-PFHxS	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C3-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C3-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C3-PFHxS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C3-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFHxS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFHxS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C3-PFHxS	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C3-PFHxS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C3-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C3-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C3-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C3-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C3-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C3-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C3-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C3-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFHxS	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	Baseline	13C3-PFHxS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	Baseline	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFHxS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFHxS_2 **(**398.7 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-PFHxS	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C3-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C3-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C3-PFHxS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C3-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-PFHxS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-PFHxS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C3-PFHxS	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Manual	13C3-PFHxS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C3-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C3-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C3-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C3-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C3-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C3-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C3-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C3-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-PFHxS	Baseline
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	Baseline	13C3-PFHxS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	Baseline	13C3-PFHxS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-PFHxS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-PFHxS	Valley

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFHpS_1 **(**449.0 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFHpS_2 **(**449.0 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFOS_1 **(**498.9 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Manual	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Manual	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	Baseline	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFOS_2 **(**498.9 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	Baseline	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFNS_1 **(**548.8 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFNS_2 **(**548.8 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFDS_1 **(**599.0 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFDS_2 **(**599.0 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFDoS_1 **(**699.1 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: PFDoS_2 **(**699.1 / 98.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C8-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C8-PFOS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C8-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 4:2FTS_1 **(**327.1 / 307.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-4:2FTS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-4:2FTS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C2-4:2FTS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C2-4:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-4:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-4:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-4:2FTS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-4:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-4:2FTS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-4:2FTS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-4:2FTS	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-4:2FTS	Baseline
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-4:2FTS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-4:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-4:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-4:2FTS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-4:2FTS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-4:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-4:2FTS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-4:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-4:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-4:2FTS	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-4:2FTS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-4:2FTS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-4:2FTS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 4:2FTS_2 **(**327.1 / 80.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-4:2FTS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-4:2FTS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-4:2FTS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-4:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-4:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-4:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-4:2FTS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-4:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-4:2FTS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-4:2FTS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-4:2FTS	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-4:2FTS	Baseline
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-4:2FTS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-4:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-4:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-4:2FTS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-4:2FTS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-4:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-4:2FTS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-4:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C2-4:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-4:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-4:2FTS	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-4:2FTS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-4:2FTS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-4:2FTS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 6:2FTS_1 **(**427.1 / 407.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-6:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-6:2FTS	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-6:2FTS	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-6:2FTS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-6:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-6:2FTS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-6:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-6:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-6:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-6:2FTS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-6:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-6:2FTS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-6:2FTS	Baseline
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-6:2FTS	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-6:2FTS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-6:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-6:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-6:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-6:2FTS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-6:2FTS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-6:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-6:2FTS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-6:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-6:2FTS	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-6:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-6:2FTS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-6:2FTS	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-6:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-6:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 6:2FTS_2 **(**427.1 / 80.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-6:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C2-6:2FTS	Baseline
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MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-6:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-6:2FTS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-6:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-6:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-6:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-6:2FTS	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-6:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-6:2FTS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-6:2FTS	Baseline
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C2-6:2FTS	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C2-6:2FTS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-6:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-6:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-6:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-6:2FTS	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C2-6:2FTS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C2-6:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-6:2FTS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-6:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-6:2FTS	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-6:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-6:2FTS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-6:2FTS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-6:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-6:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 8:2FTS_1 **(**527.1 / 507.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C2-8:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-8:2FTS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C2-8:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-8:2FTS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-8:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C2-8:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-8:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-8:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-8:2FTS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-8:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-8:2FTS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-8:2FTS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-8:2FTS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-8:2FTS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-8:2FTS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-8:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-8:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-8:2FTS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-8:2FTS	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-8:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-8:2FTS	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-8:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-8:2FTS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-8:2FTS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 8:2FTS_2 **(**527.1 / 80.8**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-8:2FTS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-8:2FTS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-8:2FTS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-8:2FTS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-8:2FTS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-8:2FTS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C2-8:2FTS	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C2-8:2FTS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C2-8:2FTS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-8:2FTS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-8:2FTS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C2-8:2FTS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C2-8:2FTS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C2-8:2FTS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C2-8:2FTS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C2-8:2FTS	Baseline
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C2-8:2FTS	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C2-8:2FTS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C2-8:2FTS	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C2-8:2FTS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C2-8:2FTS	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C2-8:2FTS	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C2-8:2FTS	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C2-8:2FTS	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-8:2FTS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFOSA_1 **(**498.1 / 77.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C8-PFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOSA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOSA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOSA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C8-PFOSA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: PFOSA_2 (498.1 / 478.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C8-PFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C8-PFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C8-PFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C8-PFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C8-PFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C8-PFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C8-PFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C8-PFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C8-PFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C8-PFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C8-PFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C8-PFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C8-PFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C8-PFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C8-PFOSA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C8-PFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C8-PFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C8-PFOSA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C8-PFOSA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	N/A	13C8-PFOSA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NMeFOSA_1 (511.9 / 219.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D3-MeFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	D3-MeFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D3-MeFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D3-MeFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D3-MeFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D3-MeFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D3-MeFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D3-MeFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D3-MeFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D3-MeFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D3-MeFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D3-MeFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D3-MeFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D3-MeFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D3-MeFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D3-MeFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D3-MeFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D3-MeFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D3-MeFOSA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D3-MeFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D3-MeFOSA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D3-MeFOSA	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NMeFOSA_2 (511.9 / 169.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D3-MeFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	D3-MeFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D3-MeFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D3-MeFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D3-MeFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D3-MeFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D3-MeFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D3-MeFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D3-MeFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D3-MeFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D3-MeFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D3-MeFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D3-MeFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D3-MeFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D3-MeFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D3-MeFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D3-MeFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D3-MeFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D3-MeFOSA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D3-MeFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D3-MeFOSA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D3-MeFOSA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D3-MeFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NEtFOSA_1 **(**526.0 / 219.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D5-EtFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	D5-EtFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D5-EtFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D5-EtFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D5-EtFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D5-EtFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D5-EtFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D5-EtFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D5-EtFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D5-EtFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D5-EtFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D5-EtFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D5-EtFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D5-EtFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D5-EtFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D5-EtFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D5-EtFOSA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D5-EtFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D5-EtFOSA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D5-EtFOSA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NEtFOSA_2 **(**526.0 / 169.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D5-EtFOSA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	D5-EtFOSA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D5-EtFOSA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D5-EtFOSA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D5-EtFOSA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D5-EtFOSA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D5-EtFOSA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D5-EtFOSA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D5-EtFOSA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D5-EtFOSA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D5-EtFOSA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D5-EtFOSA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D5-EtFOSA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D5-EtFOSA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D5-EtFOSA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D5-EtFOSA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D5-EtFOSA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D5-EtFOSA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D5-EtFOSA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D5-EtFOSA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D5-EtFOSA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NMeFOSAA_1 (570.1 / 419.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	d3-MeFOSAA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	d3-MeFOSAA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	d3-MeFOSAA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	d3-MeFOSAA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	d3-MeFOSAA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	d3-MeFOSAA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	d3-MeFOSAA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	d3-MeFOSAA	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	d3-MeFOSAA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	d3-MeFOSAA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	d3-MeFOSAA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	d3-MeFOSAA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	d3-MeFOSAA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	d3-MeFOSAA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	d3-MeFOSAA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	d3-MeFOSAA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	d3-MeFOSAA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	d3-MeFOSAA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	d3-MeFOSAA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	d3-MeFOSAA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	d3-MeFOSAA	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	d3-MeFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NMeFOSAA_2 (570.1 / 483.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	d3-MeFOSAA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	d3-MeFOSAA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Manual	d3-MeFOSAA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	d3-MeFOSAA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	d3-MeFOSAA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	d3-MeFOSAA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	d3-MeFOSAA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	d3-MeFOSAA	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	d3-MeFOSAA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	d3-MeFOSAA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	d3-MeFOSAA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	d3-MeFOSAA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	d3-MeFOSAA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	d3-MeFOSAA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	d3-MeFOSAA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	d3-MeFOSAA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	d3-MeFOSAA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	d3-MeFOSAA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	d3-MeFOSAA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	d3-MeFOSAA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	d3-MeFOSAA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	d3-MeFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	d3-MeFOSAA	Valley

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Analyte: NEtFOSAA_1 (584.2 / 419.1)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	d5-EtFOSAA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	d5-EtFOSAA	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Baseline	d5-EtFOSAA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	d5-EtFOSAA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	d5-EtFOSAA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	d5-EtFOSAA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	d5-EtFOSAA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	d5-EtFOSAA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	d5-EtFOSAA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	d5-EtFOSAA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	d5-EtFOSAA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	d5-EtFOSAA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	d5-EtFOSAA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	d5-EtFOSAA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	d5-EtFOSAA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	d5-EtFOSAA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	d5-EtFOSAA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	d5-EtFOSAA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	d5-EtFOSAA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	d5-EtFOSAA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	d5-EtFOSAA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	d5-EtFOSAA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	d5-EtFOSAA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	d5-EtFOSAA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NEtFOSAA_2 (584.2 / 526.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	d5-EtFOSAA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	d5-EtFOSAA	Baseline
MC61	L3	3/20/2024 7:35:21 PM	Baseline	d5-EtFOSAA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	d5-EtFOSAA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	d5-EtFOSAA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	d5-EtFOSAA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	d5-EtFOSAA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	d5-EtFOSAA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	d5-EtFOSAA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	d5-EtFOSAA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	d5-EtFOSAA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	d5-EtFOSAA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	d5-EtFOSAA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	d5-EtFOSAA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	d5-EtFOSAA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	d5-EtFOSAA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	d5-EtFOSAA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	d5-EtFOSAA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	d5-EtFOSAA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	d5-EtFOSAA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	d5-EtFOSAA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	d5-EtFOSAA	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	d5-EtFOSAA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	d5-EtFOSAA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	d5-EtFOSAA	Baseline

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Manual Integration Report

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Analyte: NMeFOSE **(**616.1 / 58.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D7-MeFOSE	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D7-MeFOSE	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	D7-MeFOSE	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D7-MeFOSE	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D7-MeFOSE	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D7-MeFOSE	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D7-MeFOSE	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D7-MeFOSE	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	D7-MeFOSE	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D7-MeFOSE	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D7-MeFOSE	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D7-MeFOSE	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D7-MeFOSE	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D7-MeFOSE	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D7-MeFOSE	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D7-MeFOSE	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D7-MeFOSE	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D7-MeFOSE	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D7-MeFOSE	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D7-MeFOSE	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D7-MeFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D7-MeFOSE	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D7-MeFOSE	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D7-MeFOSE	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D7-MeFOSE	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D7-MeFOSE	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D7-MeFOSE	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D7-MeFOSE	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	D7-MeFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D7-MeFOSE	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D7-MeFOSE	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D7-MeFOSE	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D7-MeFOSE	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D7-MeFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D7-MeFOSE	Valley

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Analyte: NEtFOSE **(**630.0 / 58.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	D9-EtFOSE	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	D9-EtFOSE	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	D9-EtFOSE	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	D9-EtFOSE	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	D9-EtFOSE	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	D9-EtFOSE	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	D9-EtFOSE	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	D9-EtFOSE	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	D9-EtFOSE	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	D9-EtFOSE	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	D9-EtFOSE	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	D9-EtFOSE	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	D9-EtFOSE	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	D9-EtFOSE	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	D9-EtFOSE	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	D9-EtFOSE	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	D9-EtFOSE	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	D9-EtFOSE	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	D9-EtFOSE	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	D9-EtFOSE	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	D9-EtFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	D9-EtFOSE	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	D9-EtFOSE	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	D9-EtFOSE	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	D9-EtFOSE	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	D9-EtFOSE	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	D9-EtFOSE	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	D9-EtFOSE	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	D9-EtFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	D9-EtFOSE	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	D9-EtFOSE	Baseline
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	D9-EtFOSE	Baseline
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	D9-EtFOSE	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	D9-EtFOSE	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	D9-EtFOSE	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: HFPO-DA_1 **(**284.9 / 168.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: HFPO-DA_2 **(**284.9 / 184.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: ADONA_1 **(**376.9 / 250.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: ADONA_2 **(**376.9 / 84.8**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: 9Cl-PF3ONS_1 **(**530.8 / 351.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: 9Cl-PF3ONS_2 **(**532.8 / 353.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 11Cl-PF3OUdS_1 **(**630.9 / 450.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 11Cl-PF3OUdS_2 **(**632.9 / 452.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C3-HFPO-DA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C3-HFPO-DA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C3-HFPO-DA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C3-HFPO-DA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C3-HFPO-DA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-HFPO-DA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-HFPO-DA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C3-HFPO-DA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C3-HFPO-DA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C3-HFPO-DA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C3-HFPO-DA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C3-HFPO-DA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C3-HFPO-DA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C3-HFPO-DA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C3-HFPO-DA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C3-HFPO-DA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C3-HFPO-DA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C3-HFPO-DA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C3-HFPO-DA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: 3:3 FTCA_1 **(**241.0 / 177.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFPeA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFPeA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFPeA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFPeA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFPeA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFPeA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFPeA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFPeA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFPeA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFPeA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFPeA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFPeA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFPeA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFPeA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFPeA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFPeA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFPeA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFPeA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFPeA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFPeA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFPeA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFPeA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFPeA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFPeA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFPeA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 3:3 FTCA_2 **(**241.0 / 117.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFPeA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C5-PFPeA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFPeA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFPeA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFPeA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFPeA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFPeA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFPeA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFPeA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFPeA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFPeA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFPeA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFPeA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFPeA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFPeA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFPeA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFPeA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFPeA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFPeA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFPeA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFPeA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFPeA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFPeA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFPeA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFPeA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFPeA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 5:3 FTCA_1 **(**341.0 / 237.1**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Analyte: 5:3 FTCA_2 **(**341.0 / 217.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: 7:3 FTCA_1 **(**441.0 / 316.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: 7:3 FTCA_2 **(**441.0 / 336.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: NFDHA_1 **(**295.0 / 201.1**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Analyte: NFDHA_2 **(**295.0 / 84.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Analyte: PFEESA_1 **(**314.8 / 134.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Analyte: PFEESA_2 **(**314.8 / 82.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C5-PFHxA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C5-PFHxA	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFHxA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C5-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFHxA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFHxA	Valley
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C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFHxA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFHxA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFHxA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFHxA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFHxA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFHxA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFHxA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Analyte: PFMPA (229.0 / 84.9)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFPeA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFPeA	Valley
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MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFPeA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFPeA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C5-PFPeA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFPeA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFPeA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	N/A	13C5-PFPeA	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	13C5-PFPeA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFPeA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFPeA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFPeA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFPeA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFPeA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFPeA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFPeA	Valley
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C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFPeA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	13C5-PFPeA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	13C5-PFPeA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	13C5-PFPeA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFPeA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFPeA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFPeA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFPeA	Baseline
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Manual Integration Report

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Analyte: PFMBA (279.0 / 85.1)

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
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MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	13C5-PFPeA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFPeA	Baseline
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DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	13C5-PFPeA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFPeA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C5-PFPeA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	13C5-PFPeA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	13C5-PFPeA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	13C5-PFPeA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	13C5-PFPeA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	13C5-PFPeA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	13C5-PFPeA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C5-PFPeA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C5-PFPeA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C5-PFPeA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C5-PFPeA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	13C5-PFPeA	Valley
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	13C5-PFPeA	Valley
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	N/A	13C5-PFPeA	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C5-PFPeA	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:09:57 PM

Analyte: TDCA **(**499.0 / 107.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	N/A	N/A	N/A
MC60	L2	3/20/2024 7:12:32 PM	N/A	N/A	N/A
MC61	L3	3/20/2024 7:35:21 PM	N/A	N/A	N/A
MC62	L4	3/20/2024 7:58:06 PM	N/A	N/A	N/A
MC63	L5	3/20/2024 8:20:53 PM	N/A	N/A	N/A
MC64	L6	3/20/2024 8:43:40 PM	N/A	N/A	N/A
MC65	L7	3/20/2024 9:06:26 PM	N/A	N/A	N/A
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	N/A	N/A	N/A
MC43 ICC	ICC	3/20/2024 9:52:04 PM	N/A	N/A	N/A
MC59 ISC	ISC	3/20/2024 10:14:53 PM	N/A	N/A	N/A
MC62 CV	CV	3/20/2024 10:37:39 PM	N/A	N/A	N/A
MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	Valley	N/A	N/A
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	N/A	N/A	N/A
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	N/A	N/A	N/A
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	N/A	N/A	N/A
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	N/A	N/A	N/A
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	N/A	N/A	N/A
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	N/A	N/A	N/A
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	N/A	N/A	N/A
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	N/A	N/A	N/A
MC62 CV	CV	3/21/2024 2:48:25 AM	N/A	N/A	N/A
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	N/A	N/A	N/A
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	N/A	N/A	N/A
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	N/A	N/A	N/A
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	N/A	N/A	N/A
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	N/A	N/A	N/A
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	N/A	N/A	N/A
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	N/A	N/A	N/A
MC63 CV	CV	3/21/2024 6:13:31 AM	N/A	N/A	N/A
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	N/A	N/A	N/A
C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	N/A	N/A	N/A
C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	N/A	N/A	N/A
MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	Baseline	N/A	N/A

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Manual Integration Report

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Printed: 21/03/2024 3:09:57 PM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59 CV	CV	3/21/2024 1:50:56 PM	N/A	N/A	N/A
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	N/A	N/A	N/A

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C4-PFBA **(**216.8 / 171.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-PFBA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C3-PFBA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-PFBA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C3-PFBA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C3-PFBA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C3-PFBA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C3-PFBA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C3-PFBA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C3-PFBA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Baseline	13C3-PFBA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C3-PFBA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFBA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFBA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C3-PFBA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C3-PFBA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C3-PFBA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C3-PFBA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	13C3-PFBA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFBA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C3-PFBA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C3-PFBA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFBA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFBA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C3-PFBA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C3-PFBA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C3-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C5-PFPeA (268.3 / 223.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C2-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	13C2-PFHxA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Baseline	13C2-PFHxA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C2-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C2-PFHxA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFHxA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C2-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C2-PFHxA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFHxA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C2-PFHxA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C5-PFHxA **(**318.0 / 273.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	13C2-PFHxA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Baseline	13C2-PFHxA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C2-PFHxA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	13C2-PFHxA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C2-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Baseline	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C2-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	13C2-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C2-PFHxA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFHxA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C2-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C2-PFHxA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFHxA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C2-PFHxA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C4-PFHpA (367.1 / 322.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	13C2-PFHxA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	13C2-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Baseline	13C2-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-PFHxA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFHxA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C2-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-PFHxA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFHxA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Baseline	13C2-PFHxA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

Analyte: 13C8-PFOA **(**421.1 / 376.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	13C4-PFOA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C4-PFOA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	13C4-PFOA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	13C4-PFOA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Baseline	13C4-PFOA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C9-PFNA **(**472.1 / 427.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C5-PFNA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C5-PFNA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C5-PFNA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C5-PFNA	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C5-PFNA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	13C5-PFNA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C5-PFNA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	13C5-PFNA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C5-PFNA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C5-PFNA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C5-PFNA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C5-PFNA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C5-PFNA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C5-PFNA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C5-PFNA	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C5-PFNA	Baseline
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C5-PFNA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C5-PFNA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C5-PFNA	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C5-PFNA	Baseline
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C5-PFNA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C5-PFNA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C5-PFNA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C5-PFNA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C5-PFNA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C5-PFNA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C5-PFNA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C5-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C5-PFNA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C5-PFNA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C5-PFNA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C6-PFDA **(**519.1 / 474.1**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	13C2-PFDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Baseline	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C2-PFDA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	13C2-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C2-PFDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C2-PFDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	13C2-PFDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	13C2-PFDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFDA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFDA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C2-PFDA	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFDA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C7-PFUnA (570.0 / 525.1)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C2-PFDA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Baseline	13C2-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C2-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-PFDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	13C2-PFDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFDA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C2-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C2-PFDA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	13C2-PFDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C2-PFDA	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFDA	Valley

Analyte: 13C2-PFDoA (615.1 / 570.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C2-PFDA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C2-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-PFDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFDA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C2-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFDA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Baseline	13C2-PFDA	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFDA	Valley

Analyte: 13C2-PFTeDA (715.2 / 670.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFDA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C2-PFDA	Baseline
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFDA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFDA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C2-PFDA	Baseline
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFDA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFDA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFDA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-PFDA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFDA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Baseline	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFDA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFDA	Valley
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFDA	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFDA	Baseline
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C2-PFDA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-PFDA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFDA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFDA	Baseline
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Baseline	13C2-PFDA	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFDA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFDA	Valley

Analyte: 13C3-PFBS **(**302.1 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	18O2-PFHxS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	18O2-PFHxS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	18O2-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	18O2-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Baseline	18O2-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	18O2-PFHxS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	18O2-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	18O2-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	18O2-PFHxS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	18O2-PFHxS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	18O2-PFHxS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	18O2-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	18O2-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	18O2-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	18O2-PFHxS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	18O2-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	18O2-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	18O2-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	18O2-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	18O2-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	18O2-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	18O2-PFHxS	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	18O2-PFHxS	Valley

Analyte: 13C3-PFHxS (402.1 / 79.9)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Baseline	18O2-PFHxS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	18O2-PFHxS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	18O2-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	18O2-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	18O2-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	18O2-PFHxS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	18O2-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	18O2-PFHxS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Baseline	18O2-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	18O2-PFHxS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Baseline	18O2-PFHxS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	18O2-PFHxS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	18O2-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	18O2-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	18O2-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	18O2-PFHxS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	18O2-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Baseline	18O2-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	18O2-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	18O2-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	18O2-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	18O2-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Baseline	18O2-PFHxS	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	18O2-PFHxS	Valley

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Manual Integration Report

Analyte: 13C8-PFOS **(**507.1 / 79.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C2-4:2FTS (329.1 / 80.9)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C3-PFBA	Baseline
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C3-PFBA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C3-PFBA	Baseline
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C3-PFBA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C3-PFBA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C3-PFBA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	13C3-PFBA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C3-PFBA	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C3-PFBA	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C3-PFBA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C3-PFBA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C3-PFBA	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C3-PFBA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C3-PFBA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C3-PFBA	Baseline
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Baseline	13C3-PFBA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Baseline	13C3-PFBA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	13C3-PFBA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C3-PFBA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	13C3-PFBA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C3-PFBA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C3-PFBA	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C3-PFBA	Baseline
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C3-PFBA	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C3-PFBA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Baseline	13C3-PFBA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C3-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C2-6:2FTS (429.1 / 80.9)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	18O2-PFHxS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	18O2-PFHxS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Baseline	18O2-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	18O2-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	18O2-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	18O2-PFHxS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Baseline	18O2-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Baseline	18O2-PFHxS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	18O2-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	18O2-PFHxS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	18O2-PFHxS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	18O2-PFHxS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Baseline	18O2-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	18O2-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	18O2-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	18O2-PFHxS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	18O2-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	18O2-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Baseline	18O2-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	18O2-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	18O2-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	18O2-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Baseline	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	18O2-PFHxS	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Baseline	18O2-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C2-8:2FTS (529.1 / 80.9)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	18O2-PFHxS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	18O2-PFHxS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	18O2-PFHxS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	18O2-PFHxS	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	18O2-PFHxS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Baseline	18O2-PFHxS	Baseline
MC65	L7	3/20/2024 9:06:26 PM	Valley	18O2-PFHxS	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	18O2-PFHxS	Baseline
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	18O2-PFHxS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	18O2-PFHxS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	18O2-PFHxS	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	18O2-PFHxS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	18O2-PFHxS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	18O2-PFHxS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	18O2-PFHxS	Baseline
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Baseline	18O2-PFHxS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	18O2-PFHxS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	18O2-PFHxS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Baseline	18O2-PFHxS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	18O2-PFHxS	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	18O2-PFHxS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	18O2-PFHxS	Baseline
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	18O2-PFHxS	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	18O2-PFHxS	Valley

Analyte: 13C8-PFOSA (506.1 / 77.8)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: D3-MeFOSA **(**515.0 / 219.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

Analyte: D5-EtFOSA **(**531.1 / 219.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: d3-MeFOSAA (573.2 / 419.0)

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Baseline	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Baseline	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

Analyte: d5-EtFOSAA **(**589.2 / 419.0**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Baseline	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Baseline	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Baseline	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Baseline	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Baseline	13C4-PFOS	Valley

Analyte: D7-MeFOSE **(**623.2 / 58.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: D9-EtFOSE **(**639.2 / 58.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C4-PFOS	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C4-PFOS	Baseline
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C4-PFOS	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C4-PFOS	Valley
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C4-PFOS	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Valley	13C4-PFOS	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C4-PFOS	Valley
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C4-PFOS	Baseline
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C4-PFOS	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C4-PFOS	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C4-PFOS	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C4-PFOS	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C4-PFOS	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C4-PFOS	Valley
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C4-PFOS	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Valley	13C4-PFOS	Baseline
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C4-PFOS	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C4-PFOS	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C4-PFOS	Baseline
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 21/03/2024 3:10:56 PM

Analyte: 13C3-HFPO-DA **(**286.9 / 168.9**)**

Data File	AG_03202024_1633.wiff	Result Table	24-0204_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/20/2024 6:49:46 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/20/2024 7:12:32 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/20/2024 7:35:21 PM	Valley	13C2-PFHxA	Valley
MC62	L4	3/20/2024 7:58:06 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/20/2024 8:20:53 PM	Valley	13C2-PFHxA	Valley
MC64	L6	3/20/2024 8:43:40 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/20/2024 9:06:26 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/20/2024 9:52:04 PM	Valley	13C2-PFHxA	Baseline
MC59 ISC	ISC	3/20/2024 10:14:53 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/20/2024 10:37:39 PM	Valley	13C2-PFHxA	Baseline
MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	Valley	13C2-PFHxA	Valley
DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	Baseline	13C2-PFHxA	Valley
DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	Valley	13C2-PFHxA	Baseline
DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	Valley	13C2-PFHxA	Valley
C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	Valley	13C2-PFHxA	Valley
C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	Valley	13C2-PFHxA	Valley
C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	Valley	13C2-PFHxA	Valley
C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	Valley	13C2-PFHxA	Valley
MC62 CV	CV	3/21/2024 2:48:25 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	Valley	13C2-PFHxA	Valley
C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	Valley	13C2-PFHxA	Baseline
C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	Valley	13C2-PFHxA	Baseline
C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	Valley	13C2-PFHxA	Valley
C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	Baseline	13C2-PFHxA	Valley
C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	Valley	13C2-PFHxA	Valley
C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	Valley	13C2-PFHxA	Baseline
MC63 CV	CV	3/21/2024 6:13:31 AM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	Valley	13C2-PFHxA	Valley
MC59 CV	CV	3/21/2024 1:50:56 PM	Valley	13C2-PFHxA	Valley
MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	Valley	13C2-PFHxA	Baseline

Example Calculation for PFAS

Calculation of final concentration from area:

$$Concentration = \left[\frac{AreaN * MEIS}{AreaEIS * (RR\ or\ RF)}\right] * DF/S$$

Where:

AreaN = Area of target
AreaEIS = area of Extracted Internal Standard
MEIS = concentration of Extracted Internal Standard (ng)
RR or RF = Response Factor or Response Ratio
DF = dilution factor
S = Sample Size

Sample ID:	DQ746LCS-FS(0)
Client Sample ID:	Laboratory Control Sample
Sample Size:	0.493
Units:	L
Dilution Factor:	1.000
Target Analyte:	PFBA
MRM Transition:	212.8 / 168.9
Data file:	AG_03202024_1633.wiff
Result table:	24-0204
Area:	871,987.59
IS Name:	13C4-PFBA
IS Area:	686,239.07
IS Amount (ng):	40
RR or RF	1.09588

$$\text{Concentration} = \frac{(871987.59 * 40)}{(686239.07 * 1.09588)} * 1 / 0.493$$

ng/L = 94.1

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Preparation Batch: 24-0204
Data Set: DP-24-0231

		DQ745PB-FS (Procedural Blank)	DQ746LCS-FS (Laboratory Control Sample)	DQ747LCS-FS (Laboratory Control Sample)	C2669-FS (WGNA-FB-20240318)	C2670-FS (WGNA-SW-NCREF4-20240318)	C2671-FS (WGNA-SW-56-20240318)	C2672-FS (WGNA-SW-47-20240318)	C2673-FS (WGNA-SW-48-20240318)	C2674-FS (WGNA-SW-46-20240318)	C2675-FS (WGNA-SW-45-20240318)	C2676-FS (WGNA-SW-49-20240318)	C2677-FS (WGNA-SW-54-20240318)	C2678-FS (WGNA-SW-DUP-01-20240318)
PFBA	375-22-4	-	L	L	-	L	L	L	L	L	L	L	L	L
PFPeA	2706-90-3	-	L	L	-	L	L	L	L	L	L	L	L	L
PFHxA	307-24-4	-	L	L	-	L	L	L	L	L	L	L	L	L
PFHpA	375-85-9	-	L	L	-	L	L	L	L	L	L	L	L	L
PFOA	335-67-1	-	L	L	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNA	375-95-1	-	L	L	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFDA	335-76-2	-	L	L	-	-	-	-	-	L	L	L	L	-
PFUnA	2058-94-8	-	L	L	-	-	-	-	-	-	-	-	-	-
PFDoA	307-55-1	-	L	L	-	-	-	-	-	-	-	-	-	-
PFTrDA	72629-94-8	-	L	L	-	-	-	-	-	-	-	-	-	-
PFTeDA	376-06-7	-	L	L	-	-	-	-	-	-	-	-	-	-
PFBS	375-73-5	-	L	L	-	L	L	L	L	L	L	L	L	L
PFPeS	2706-91-4	-	L	L	-	L	L	L	L	L	L	L	L	L
PFHxS	355-46-4	-	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFHpS	375-92-8	-	L	L	-	L	L	L	-	L	L	L	L	L
PFOS	1763-23-1	-	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNS	68259-12-1	-	L	L	-	-	-	-	-	-	-	-	-	-
PFDS	335-77-3	-	L	L	-	-	-	-	-	-	-	-	-	-
PFDoS	79780-39-5	-	L	L	-	-	-	-	-	-	-	-	-	-
4:2FTS	757124-72-4	-	L	L	-	-	-	-	-	-	-	-	-	-
6:2FTS	27619-97-2	-	L	L	-	-	-	-	-	L	L	L	L	-
8:2FTS	39108-34-4	-	L	L	-	-	-	-	-	-	-	-	-	-
PFOSA	754-91-6	-	L	L	-	-	-	-	-	-	-	-	-	-
NMeFOSA	31506-32-8	-	L	L	-	-	-	-	-	-	-	-	-	-
NEtFOSA	4151-50-2	-	L	L	-	-	-	-	-	-	-	-	-	-
NMeFOSAA	2355-31-9	-	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-
NEtFOSAA	2991-50-6	-	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-
NMeFOSE	24448-09-7	-	L	L	-	-	-	-	-	-	-	-	-	-
NEtFOSE	1691-99-2	-	L	L	-	-	-	-	-	-	-	-	-	-
HFPO-DA	13252-13-6	-	L	L	-	-	-	-	-	-	-	-	-	-
Adona	919005-14-4	-	L	L	-	-	-	-	-	-	-	-	-	-
PFMPA	377-73-1	-	L	L	-	-	-	-	-	-	-	-	-	-
PFMBA	863090-89-5	-	L	L	-	-	-	-	-	-	-	-	-	-
NFDHA	151772-58-6	-	L	L	-	-	-	-	-	-	-	-	-	-
9Cl-PF3ONS	756426-58-1	-	L	L	-	-	-	-	-	-	-	-	-	-
11Cl-PF3OUdS	763051-92-9	-	L	L	-	-	-	-	-	-	-	-	-	-
PFEESA	113507-82-7	-	L	L	-	-	-	-	-	-	-	-	-	-
3:3 FTCA	356-02-5	-	L	L	-	-	-	-	-	-	-	-	-	-
5:3 FTCA	914637-49-3	-	L	L	-	-	-	-	-	-	-	-	-	-
7:3 FTCA	812-70-4	-	L	L	-	-	-	-	-	-	-	-	-	-

"L" :Linear
"Br": branched
"L/Br": Linear/Branched
"-": Not detected

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Internal Standard Area Report - Instrument QC Samples NIS Recoveries (%)

Sample Name	Sample ID	Date & Time	13C3-PFBA	13C2-PFHxA	13C4-PFOA	13C5-PFNA	13C2-PFDA	18O2-PFHxS	13C4-PFOS
MC59	L1	3/20/24 18:49	104	101	104	91	98	97	96
MC60	L2	3/20/24 19:12	107	102	96	103	111	107	96
MC61	L3	3/20/24 19:35	96	97	95	94	89	97	93
MC62	L4	3/20/24 19:58	100	93	101	95	101	101	98
MC63	L5	3/20/24 20:20	113	109	106	118	96	108	113
MC64	L6	3/20/24 20:43	97	94	104	106	105	96	96
MC65	L7	3/20/24 21:06	83	103	93	94	100	94	107
MC43 ICC	ICC	3/20/24 21:52	91	85	84	84	97	91	86
MC59 ISC	ISC	3/20/24 22:14	93	95	92	86	87	88	80
MC62 CV	CV	3/20/24 22:37	93	100	86	92	86	96	85
MC62 CV	CV	3/21/24 2:48	95	90	97	89	97	98	93
MC63 CV	CV	3/21/24 6:13	94	87	92	93	94	94	92
MC59 CV	CV	3/21/24 13:50	95	93	92	94	97	96	84

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		L4			Procedural Blank
Standard ID		MC62			DQ745PB-FS
Analysis Date		03/20/2024			-
Analysis Time		19:58			-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)
PFBA	375-22-4	1.96	1.56	2.36	-
PFPeA	2706-90-3	4.42	4.02	4.82	-
PFHxA	307-24-4	5.49	5.09	5.89	-
PFHpA	375-85-9	6.21	5.81	6.61	-
PFOA	335-67-1	6.74	6.34	7.14	-
PFNA	375-95-1	7.19	6.79	7.59	-
PFDA	335-76-2	7.61	7.21	8.01	-
PFUnA	2058-94-8	7.99	7.59	8.39	-
PFDoA	307-55-1	8.36	7.96	8.76	-
PFTrDA	72629-94-8	8.73	8.33	9.13	-
PFTeDA	376-06-7	9.07	8.67	9.47	-
PFBS	375-73-5	5.38	4.98	5.78	-
PFPeS	2706-91-4	6.21	5.81	6.61	-
PFHxS	355-46-4	6.80	6.40	7.20	-
PFHpS	375-92-8	7.29	6.89	7.69	-
PFOS	1763-23-1	7.71	7.31	8.11	-
PFNS	68259-12-1	8.11	7.71	8.51	-
PFDS	335-77-3	8.50	8.10	8.90	-
PFDoS	79780-39-5	9.20	8.80	9.60	-
4:2FTS	757124-72-4	5.28	4.88	5.68	-
6:2FTS	27619-97-2	6.56	6.16	6.96	-
8:2FTS	39108-34-4	7.44	7.04	7.84	-
PFOSA	754-91-6	8.08	7.68	8.48	-
NMeFOSA	31506-32-8	10.13	9.73	10.53	-
NEtFOSA	4151-50-2	10.47	10.07	10.87	-
NMeFOSAA	2355-31-9	7.64	7.24	8.04	-
NEtFOSAA	2991-50-6	7.78	7.38	8.18	-
NMeFOSE	24448-09-7	10.09	9.69	10.49	-
NEtFOSE	1691-99-2	10.39	9.99	10.79	-
HFPO-DA	13252-13-6	5.75	5.35	6.15	-
Adona	919005-14-4	6.41	6.01	6.81	-
PFMPA	377-73-1	3.17	2.77	3.57	-
PFMBA	863090-89-5	4.81	4.41	5.21	-
NFDHA	151772-58-6	5.39	4.99	5.79	-
9Cl-PF3ONS	756426-58-1	7.99	7.59	8.39	-
11Cl-PF3OUdS	763051-92-9	8.75	8.35	9.15	-
PFEESA	113507-82-7	5.77	5.37	6.17	-
3:3 FTCA	356-02-5	3.73	3.33	4.13	-
5:3 FTCA	914637-49-3	5.80	5.40	6.20	-
7:3 FTCA	812-70-4	6.87	6.47	7.27	-

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	L4			Procedural Blank
Standard ID	MC62			DQ745PB-FS
Analysis Date	03/20/2024			-
Analysis Time	19:58			-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**
13C4-PFBA	1.95	1.55	2.35	1.95
13C5-PFPeA	4.41	4.01	4.81	4.41
13C5-PFHxA	5.48	5.08	5.88	5.49
13C4-PFHpA	6.20	5.80	6.60	6.21
13C8-PFOA	6.73	6.33	7.13	6.73
13C9-PFNA	7.18	6.78	7.58	7.18
13C6-PFDA	7.59	7.19	7.99	7.59
13C7-PFUnA	7.98	7.58	8.38	7.97
13C2-PFDoA	8.35	7.95	8.75	8.34
13C2-PFTeDA	9.06	8.66	9.46	9.04
13C3-PFBS	5.37	4.97	5.77	5.37
13C3-PFHxS	6.79	6.39	7.19	6.79
13C8-PFOS	7.70	7.30	8.10	7.70
13C2-4:2FTS	5.27	4.87	5.67	5.27
13C2-6:2FTS	6.56	6.16	6.96	6.57
13C2-8:2FTS	7.43	7.03	7.83	7.43
13C8-PFOSA	8.08	7.68	8.48	8.05
d3-MeFOSA	10.13	9.73	10.53	10.11
d5-EtFOSA	10.46	10.06	10.86	10.45
d3-MeFOSAA	7.63	7.23	8.03	7.62
d5-EtFOSAA	7.77	7.37	8.17	7.76
d7-MeFOSE	10.07	9.67	10.47	10.05
d9-EtFOSE	10.36	9.96	10.76	10.35
13C3-HFPO-DA	5.74	5.34	6.14	5.75
NIS	**RT**	Lower	Upper	**RT**
13C3-PFBA	1.95	1.55	2.35	1.95
13C2-PFHxA	5.48	5.08	5.88	5.49
13C4-PFOA	6.73	6.33	7.13	6.73
13C5-PFNA	7.18	6.78	7.58	7.18
13C2-PFDA	7.59	7.19	7.99	7.59
18O2-PFHxS	6.79	6.39	7.19	6.80
13C4-PFOS	7.71	7.31	8.11	7.70

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		L4			Laboratory Control Sample	Laboratory Control Sample	WGNA-FB-20240318
Standard ID		MC62			DQ746LCS-FS	DQ747LCS-FS	C2669-FS
Analysis Date		03/20/2024			-	-	-
Analysis Time		19:58			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.56	2.36	1.96	1.94	-
PFPeA	2706-90-3	4.42	4.02	4.82	4.41	4.43	-
PFHxA	307-24-4	5.49	5.09	5.89	5.49	5.51	-
PFHpA	375-85-9	6.21	5.81	6.61	6.20	6.23	-
PFOA	335-67-1	6.74	6.34	7.14	6.73	6.76	-
PFNA	375-95-1	7.19	6.79	7.59	7.18	7.21	-
PFDA	335-76-2	7.61	7.21	8.01	7.59	7.62	-
PFUnA	2058-94-8	7.99	7.59	8.39	7.98	8.00	-
PFDoA	307-55-1	8.36	7.96	8.76	8.35	8.38	-
PFTrDA	72629-94-8	8.73	8.33	9.13	8.71	8.73	-
PFTeDA	376-06-7	9.07	8.67	9.47	9.05	9.07	-
PFBS	375-73-5	5.38	4.98	5.78	5.37	5.39	-
PFPeS	2706-91-4	6.21	5.81	6.61	6.21	6.24	-
PFHxS	355-46-4	6.80	6.40	7.20	6.79	6.82	-
PFHpS	375-92-8	7.29	6.89	7.69	7.28	7.30	-
PFOS	1763-23-1	7.71	7.31	8.11	7.70	7.73	-
PFNS	68259-12-1	8.11	7.71	8.51	8.10	8.12	-
PFDS	335-77-3	8.50	8.10	8.90	8.48	8.50	-
PFDoS	79780-39-5	9.20	8.80	9.60	9.18	9.20	-
4:2FTS	757124-72-4	5.28	4.88	5.68	5.28	5.29	-
6:2FTS	27619-97-2	6.56	6.16	6.96	6.56	6.59	-
8:2FTS	39108-34-4	7.44	7.04	7.84	7.43	7.46	-
PFOSA	754-91-6	8.08	7.68	8.48	8.05	8.07	-
NMeFOSA	31506-32-8	10.13	9.73	10.53	10.12	10.13	-
NEtFOSA	4151-50-2	10.47	10.07	10.87	10.46	10.47	-
NMeFOSAA	2355-31-9	7.64	7.24	8.04	7.63	7.65	-
NEtFOSAA	2991-50-6	7.78	7.38	8.18	7.77	7.79	-
NMeFOSE	24448-09-7	10.09	9.69	10.49	10.08	10.09	-
NEtFOSE	1691-99-2	10.39	9.99	10.79	10.38	10.39	-
HFPO-DA	13252-13-6	5.75	5.35	6.15	5.74	5.77	-
Adona	919005-14-4	6.41	6.01	6.81	6.40	6.43	-
PFMPA	377-73-1	3.17	2.77	3.57	3.16	3.17	-
PFMBA	863090-89-5	4.81	4.41	5.21	4.80	4.82	-
NFDHA	151772-58-6	5.39	4.99	5.79	5.38	5.40	-
9Cl-PF3ONS	756426-58-1	7.99	7.59	8.39	7.97	8.00	-
11Cl-PF3OUdS	763051-92-9	8.75	8.35	9.15	8.73	8.75	-
PFEESA	113507-82-7	5.77	5.37	6.17	5.77	5.79	-
3:3 FTCA	356-02-5	3.73	3.33	4.13	3.72	3.74	-
5:3 FTCA	914637-49-3	5.80	5.40	6.20	5.80	5.82	-
7:3 FTCA	812-70-4	6.87	6.47	7.27	6.86	6.88	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	L4			Laboratory Control Sample	Laboratory Control Sample	WGNA-FB-20240318
Standard ID	MC62			DQ746LCS-FS	DQ747LCS-FS	C2669-FS
Analysis Date	03/20/2024			-	-	-
Analysis Time	19:58			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.95	1.55	2.35	1.95	1.93	1.93
13C5-PFPeA	4.41	4.01	4.81	4.40	4.41	4.40
13C5-PFHxA	5.48	5.08	5.88	5.48	5.50	5.48
13C4-PFHpA	6.20	5.80	6.60	6.19	6.22	6.21
13C8-PFOA	6.73	6.33	7.13	6.72	6.75	6.74
13C9-PFNA	7.18	6.78	7.58	7.17	7.20	7.19
13C6-PFDA	7.59	7.19	7.99	7.58	7.61	7.59
13C7-PFUnA	7.98	7.58	8.38	7.96	7.99	7.98
13C2-PFDoA	8.35	7.95	8.75	8.34	8.36	8.35
13C2-PFTeDA	9.06	8.66	9.46	9.05	9.06	9.05
13C3-PFBS	5.37	4.97	5.77	5.36	5.38	5.37
13C3-PFHxS	6.79	6.39	7.19	6.78	6.81	6.80
13C8-PFOS	7.70	7.30	8.10	7.69	7.72	7.71
13C2-4:2FTS	5.27	4.87	5.67	5.27	5.28	5.27
13C2-6:2FTS	6.56	6.16	6.96	6.55	6.58	6.57
13C2-8:2FTS	7.43	7.03	7.83	7.42	7.45	7.44
13C8-PFOSA	8.08	7.68	8.48	8.04	8.06	8.05
d3-MeFOSA	10.13	9.73	10.53	10.11	10.13	10.12
d5-EtFOSA	10.46	10.06	10.86	10.45	10.46	10.45
d3-MeFOSAA	7.63	7.23	8.03	7.62	7.64	7.63
d5-EtFOSAA	7.77	7.37	8.17	7.76	7.79	7.77
d7-MeFOSE	10.07	9.67	10.47	10.06	10.07	10.06
d9-EtFOSE	10.36	9.96	10.76	10.35	10.37	10.35
13C3-HFPO-DA	5.74	5.34	6.14	5.74	5.76	5.74
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.95	1.55	2.35	1.95	1.94	1.93
13C2-PFHxA	5.48	5.08	5.88	5.48	5.50	5.49
13C4-PFOA	6.73	6.33	7.13	6.72	6.75	6.74
13C5-PFNA	7.18	6.78	7.58	7.17	7.20	7.19
13C2-PFDA	7.59	7.19	7.99	7.58	7.61	7.60
18O2-PFHxS	6.79	6.39	7.19	6.79	6.81	6.80
13C4-PFOS	7.71	7.31	8.11	7.69	7.72	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-NCREF4-20240318	WGNA-SW-56-20240318	WGNA-SW-47-20240318
Standard ID		MC62			C2670-FS	C2671-FS	C2672-FS
Analysis Date		03/20/2024			-	-	-
Analysis Time		19:58			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.56	2.36	1.95	1.94	1.93
PFPeA	2706-90-3	4.42	4.02	4.82	4.42	4.41	4.41
PFHxA	307-24-4	5.49	5.09	5.89	5.51	5.49	5.49
PFHpA	375-85-9	6.21	5.81	6.61	6.23	6.21	6.21
PFOA	335-67-1	6.74	6.34	7.14	6.76	6.74	6.74
PFNA	375-95-1	7.19	6.79	7.59	7.21	7.19	7.19
PFDA	335-76-2	7.61	7.21	8.01	-	-	-
PFUnA	2058-94-8	7.99	7.59	8.39	-	-	-
PFDoA	307-55-1	8.36	7.96	8.76	-	-	-
PFTrDA	72629-94-8	8.73	8.33	9.13	-	-	-
PFTeDA	376-06-7	9.07	8.67	9.47	-	-	-
PFBS	375-73-5	5.38	4.98	5.78	5.39	5.37	5.37
PFPeS	2706-91-4	6.21	5.81	6.61	6.24	6.21	6.21
PFHxS	355-46-4	6.80	6.40	7.20	6.82	6.80	6.79
PFHpS	375-92-8	7.29	6.89	7.69	7.30	7.28	7.28
PFOS	1763-23-1	7.71	7.31	8.11	7.70	7.69	7.71
PFNS	68259-12-1	8.11	7.71	8.51	-	-	-
PFDS	335-77-3	8.50	8.10	8.90	-	-	-
PFDoS	79780-39-5	9.20	8.80	9.60	-	-	-
4:2FTS	757124-72-4	5.28	4.88	5.68	-	-	-
6:2FTS	27619-97-2	6.56	6.16	6.96	6.59	6.57	6.56
8:2FTS	39108-34-4	7.44	7.04	7.84	-	-	-
PFOSA	754-91-6	8.08	7.68	8.48	-	-	-
NMeFOSA	31506-32-8	10.13	9.73	10.53	-	-	-
NEtFOSA	4151-50-2	10.47	10.07	10.87	-	-	-
NMeFOSAA	2355-31-9	7.64	7.24	8.04	-	-	-
NEtFOSAA	2991-50-6	7.78	7.38	8.18	-	-	-
NMeFOSE	24448-09-7	10.09	9.69	10.49	-	-	-
NEtFOSE	1691-99-2	10.39	9.99	10.79	-	-	-
HFPO-DA	13252-13-6	5.75	5.35	6.15	-	-	-
Adona	919005-14-4	6.41	6.01	6.81	-	-	-
PFMPA	377-73-1	3.17	2.77	3.57	-	-	-
PFMBA	863090-89-5	4.81	4.41	5.21	-	-	-
NFDHA	151772-58-6	5.39	4.99	5.79	-	-	-
9Cl-PF3ONS	756426-58-1	7.99	7.59	8.39	-	-	-
11Cl-PF3OUdS	763051-92-9	8.75	8.35	9.15	-	-	-
PFEESA	113507-82-7	5.77	5.37	6.17	-	-	-
3:3 FTCA	356-02-5	3.73	3.33	4.13	-	-	-
5:3 FTCA	914637-49-3	5.80	5.40	6.20	-	-	-
7:3 FTCA	812-70-4	6.87	6.47	7.27	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-NCREF4-20240318	WGNA-SW-56-20240318	WGNA-SW-47-20240318
Standard ID	MC62			C2670-FS	C2671-FS	C2672-FS
Analysis Date	03/20/2024			-	-	-
Analysis Time	19:58			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.95	1.55	2.35	1.94	1.93	1.92
13C5-PFPeA	4.41	4.01	4.81	4.41	4.40	4.40
13C5-PFHxA	5.48	5.08	5.88	5.50	5.48	5.48
13C4-PFHpA	6.20	5.80	6.60	6.22	6.20	6.19
13C8-PFOA	6.73	6.33	7.13	6.75	6.73	6.73
13C9-PFNA	7.18	6.78	7.58	7.20	7.18	7.17
13C6-PFDA	7.59	7.19	7.99	7.60	7.59	7.59
13C7-PFUnA	7.98	7.58	8.38	7.99	7.97	7.97
13C2-PFDoA	8.35	7.95	8.75	8.37	8.34	8.35
13C2-PFTeDA	9.06	8.66	9.46	9.07	9.05	9.06
13C3-PFBS	5.37	4.97	5.77	5.38	5.36	5.36
13C3-PFHxS	6.79	6.39	7.19	6.81	6.79	6.79
13C8-PFOS	7.70	7.30	8.10	7.71	7.70	7.70
13C2-4:2FTS	5.27	4.87	5.67	5.29	5.27	5.27
13C2-6:2FTS	6.56	6.16	6.96	6.58	6.56	6.55
13C2-8:2FTS	7.43	7.03	7.83	7.44	7.42	7.43
13C8-PFOSA	8.08	7.68	8.48	8.06	8.04	8.04
d3-MeFOSA	10.13	9.73	10.53	10.14	10.11	10.13
d5-EtFOSA	10.46	10.06	10.86	10.47	10.45	10.47
d3-MeFOSAA	7.63	7.23	8.03	7.64	7.62	7.62
d5-EtFOSAA	7.77	7.37	8.17	7.78	7.77	7.77
d7-MeFOSE	10.07	9.67	10.47	10.08	10.06	10.07
d9-EtFOSE	10.36	9.96	10.76	10.38	10.35	10.37
13C3-HFPO-DA	5.74	5.34	6.14	5.76	5.74	5.74
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.95	1.55	2.35	1.94	1.93	1.93
13C2-PFHxA	5.48	5.08	5.88	5.50	5.48	5.48
13C4-PFOA	6.73	6.33	7.13	6.75	6.73	6.73
13C5-PFNA	7.18	6.78	7.58	7.20	7.18	7.18
13C2-PFDA	7.59	7.19	7.99	7.61	7.59	7.59
18O2-PFHxS	6.79	6.39	7.19	6.81	6.79	6.79
13C4-PFOS	7.71	7.31	8.11	7.72	7.70	7.70

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-48-20240318	WGNA-SW-46-20240318	WGNA-SW-45-20240318
Standard ID		MC62			C2673-FS	C2674-FS	C2675-FS
Analysis Date		03/20/2024			-	-	-
Analysis Time		19:58			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.56	2.36	1.94	1.95	1.95
PFPeA	2706-90-3	4.42	4.02	4.82	4.41	4.40	4.42
PFHxA	307-24-4	5.49	5.09	5.89	5.48	5.47	5.50
PFHpA	375-85-9	6.21	5.81	6.61	6.20	6.19	6.21
PFOA	335-67-1	6.74	6.34	7.14	6.73	6.72	6.74
PFNA	375-95-1	7.19	6.79	7.59	7.18	7.17	7.19
PFDA	335-76-2	7.61	7.21	8.01	-	7.59	7.60
PFUnA	2058-94-8	7.99	7.59	8.39	-	-	-
PFDoA	307-55-1	8.36	7.96	8.76	-	-	-
PFTrDA	72629-94-8	8.73	8.33	9.13	-	-	-
PFTeDA	376-06-7	9.07	8.67	9.47	-	-	-
PFBS	375-73-5	5.38	4.98	5.78	5.37	5.35	5.38
PFPeS	2706-91-4	6.21	5.81	6.61	6.20	6.19	6.22
PFHxS	355-46-4	6.80	6.40	7.20	6.79	6.78	6.80
PFHpS	375-92-8	7.29	6.89	7.69	-	7.26	7.28
PFOS	1763-23-1	7.71	7.31	8.11	7.61	7.69	7.71
PFNS	68259-12-1	8.11	7.71	8.51	-	-	-
PFDS	335-77-3	8.50	8.10	8.90	-	-	-
PFDoS	79780-39-5	9.20	8.80	9.60	-	-	-
4:2FTS	757124-72-4	5.28	4.88	5.68	-	-	-
6:2FTS	27619-97-2	6.56	6.16	6.96	-	6.54	6.57
8:2FTS	39108-34-4	7.44	7.04	7.84	-	-	-
PFOSA	754-91-6	8.08	7.68	8.48	-	-	-
NMeFOSA	31506-32-8	10.13	9.73	10.53	-	-	-
NEtFOSA	4151-50-2	10.47	10.07	10.87	-	-	-
NMeFOSAA	2355-31-9	7.64	7.24	8.04	-	-	-
NEtFOSAA	2991-50-6	7.78	7.38	8.18	-	-	-
NMeFOSE	24448-09-7	10.09	9.69	10.49	-	-	-
NEtFOSE	1691-99-2	10.39	9.99	10.79	-	-	-
HFPO-DA	13252-13-6	5.75	5.35	6.15	-	-	-
Adona	919005-14-4	6.41	6.01	6.81	-	-	-
PFMPA	377-73-1	3.17	2.77	3.57	-	-	-
PFMBA	863090-89-5	4.81	4.41	5.21	-	-	4.81
NFDHA	151772-58-6	5.39	4.99	5.79	-	-	-
9Cl-PF3ONS	756426-58-1	7.99	7.59	8.39	-	-	-
11Cl-PF3OUdS	763051-92-9	8.75	8.35	9.15	-	-	-
PFEESA	113507-82-7	5.77	5.37	6.17	-	-	-
3:3 FTCA	356-02-5	3.73	3.33	4.13	-	-	-
5:3 FTCA	914637-49-3	5.80	5.40	6.20	-	-	-
7:3 FTCA	812-70-4	6.87	6.47	7.27	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-48-20240318	WGNA-SW-46-20240318	WGNA-SW-45-20240318
Standard ID	MC62			C2673-FS	C2674-FS	C2675-FS
Analysis Date	03/20/2024			-	-	-
Analysis Time	19:58			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.95	1.55	2.35	1.93	1.94	1.94
13C5-PFPeA	4.41	4.01	4.81	4.40	4.39	4.41
13C5-PFHxA	5.48	5.08	5.88	5.47	5.46	5.48
13C4-PFHpA	6.20	5.80	6.60	6.19	6.18	6.20
13C8-PFOA	6.73	6.33	7.13	6.72	6.71	6.73
13C9-PFNA	7.18	6.78	7.58	7.17	7.16	7.18
13C6-PFDA	7.59	7.19	7.99	7.58	7.57	7.59
13C7-PFUnA	7.98	7.58	8.38	7.96	7.96	7.98
13C2-PFDoA	8.35	7.95	8.75	8.34	8.33	8.35
13C2-PFTeDA	9.06	8.66	9.46	9.04	9.04	9.07
13C3-PFBS	5.37	4.97	5.77	5.36	5.34	5.37
13C3-PFHxS	6.79	6.39	7.19	6.78	6.77	6.79
13C8-PFOS	7.70	7.30	8.10	7.69	7.68	7.70
13C2-4:2FTS	5.27	4.87	5.67	5.26	5.25	5.27
13C2-6:2FTS	6.56	6.16	6.96	6.55	6.54	6.56
13C2-8:2FTS	7.43	7.03	7.83	7.42	7.41	7.43
13C8-PFOSA	8.08	7.68	8.48	8.02	8.02	8.04
d3-MeFOSA	10.13	9.73	10.53	10.11	10.11	10.12
d5-EtFOSA	10.46	10.06	10.86	10.45	10.45	10.46
d3-MeFOSAA	7.63	7.23	8.03	7.61	7.61	7.63
d5-EtFOSAA	7.77	7.37	8.17	7.76	7.75	7.77
d7-MeFOSE	10.07	9.67	10.47	10.06	10.06	10.07
d9-EtFOSE	10.36	9.96	10.76	10.36	10.35	10.36
13C3-HFPO-DA	5.74	5.34	6.14	5.73	5.72	5.74
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.95	1.55	2.35	1.93	1.94	1.95
13C2-PFHxA	5.48	5.08	5.88	5.47	5.46	5.49
13C4-PFOA	6.73	6.33	7.13	6.72	6.71	6.73
13C5-PFNA	7.18	6.78	7.58	7.17	7.16	7.18
13C2-PFDA	7.59	7.19	7.99	7.58	7.57	7.59
18O2-PFHxS	6.79	6.39	7.19	6.78	6.77	6.79
13C4-PFOS	7.71	7.31	8.11	7.69	7.68	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-49-20240318	WGNA-SW-54-20240318	WGNA-SW-DUP-01-20240318
Standard ID		MC62			C2676-FS	C2677-FS	C2678-FS
Analysis Date		03/20/2024			-	-	-
Analysis Time		19:58			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.56	2.36	1.96	1.96	1.97
PFPeA	2706-90-3	4.42	4.02	4.82	4.41	4.44	4.43
PFHxA	307-24-4	5.49	5.09	5.89	5.48	5.51	5.51
PFHpA	375-85-9	6.21	5.81	6.61	6.20	6.24	6.23
PFOA	335-67-1	6.74	6.34	7.14	6.73	6.76	6.75
PFNA	375-95-1	7.19	6.79	7.59	7.18	7.21	7.21
PFDA	335-76-2	7.61	7.21	8.01	7.59	7.62	-
PFUnA	2058-94-8	7.99	7.59	8.39	-	-	-
PFDoA	307-55-1	8.36	7.96	8.76	-	-	-
PFTrDA	72629-94-8	8.73	8.33	9.13	-	-	-
PFTeDA	376-06-7	9.07	8.67	9.47	-	-	-
PFBS	375-73-5	5.38	4.98	5.78	5.37	5.39	5.39
PFPeS	2706-91-4	6.21	5.81	6.61	6.21	6.24	6.23
PFHxS	355-46-4	6.80	6.40	7.20	6.78	6.79	6.82
PFHpS	375-92-8	7.29	6.89	7.69	7.28	7.30	7.30
PFOS	1763-23-1	7.71	7.31	8.11	7.69	7.70	7.72
PFNS	68259-12-1	8.11	7.71	8.51	-	-	-
PFDS	335-77-3	8.50	8.10	8.90	-	-	-
PFDoS	79780-39-5	9.20	8.80	9.60	-	-	-
4:2FTS	757124-72-4	5.28	4.88	5.68	-	-	-
6:2FTS	27619-97-2	6.56	6.16	6.96	6.56	6.59	-
8:2FTS	39108-34-4	7.44	7.04	7.84	-	-	-
PFOSA	754-91-6	8.08	7.68	8.48	-	-	-
NMeFOSA	31506-32-8	10.13	9.73	10.53	-	-	-
NEtFOSA	4151-50-2	10.47	10.07	10.87	-	-	-
NMeFOSAA	2355-31-9	7.64	7.24	8.04	-	-	-
NEtFOSAA	2991-50-6	7.78	7.38	8.18	-	-	-
NMeFOSE	24448-09-7	10.09	9.69	10.49	-	-	-
NEtFOSE	1691-99-2	10.39	9.99	10.79	-	-	-
HFPO-DA	13252-13-6	5.75	5.35	6.15	-	-	-
Adona	919005-14-4	6.41	6.01	6.81	-	-	-
PFMPA	377-73-1	3.17	2.77	3.57	-	-	-
PFMBA	863090-89-5	4.81	4.41	5.21	4.80	4.83	-
NFDHA	151772-58-6	5.39	4.99	5.79	-	-	-
9Cl-PF3ONS	756426-58-1	7.99	7.59	8.39	-	-	-
11Cl-PF3OUdS	763051-92-9	8.75	8.35	9.15	-	-	-
PFEESA	113507-82-7	5.77	5.37	6.17	-	-	-
3:3 FTCA	356-02-5	3.73	3.33	4.13	-	-	-
5:3 FTCA	914637-49-3	5.80	5.40	6.20	-	-	-
7:3 FTCA	812-70-4	6.87	6.47	7.27	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-49-20240318	WGNA-SW-54-20240318	WGNA-SW-DUP-01-20240318
Standard ID	MC62			C2676-FS	C2677-FS	C2678-FS
Analysis Date	03/20/2024			-	-	-
Analysis Time	19:58			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.95	1.55	2.35	1.95	1.95	1.96
13C5-PFPeA	4.41	4.01	4.81	4.40	4.42	4.42
13C5-PFHxA	5.48	5.08	5.88	5.47	5.50	5.50
13C4-PFHpA	6.20	5.80	6.60	6.19	6.22	6.22
13C8-PFOA	6.73	6.33	7.13	6.72	6.75	6.74
13C9-PFNA	7.18	6.78	7.58	7.17	7.20	7.19
13C6-PFDA	7.59	7.19	7.99	7.58	7.61	7.61
13C7-PFUnA	7.98	7.58	8.38	7.96	7.99	7.99
13C2-PFDoA	8.35	7.95	8.75	8.34	8.36	8.36
13C2-PFTeDA	9.06	8.66	9.46	9.04	9.06	9.06
13C3-PFBS	5.37	4.97	5.77	5.36	5.39	5.38
13C3-PFHxS	6.79	6.39	7.19	6.78	6.81	6.81
13C8-PFOS	7.70	7.30	8.10	7.69	7.72	7.72
13C2-4:2FTS	5.27	4.87	5.67	5.27	5.29	5.29
13C2-6:2FTS	6.56	6.16	6.96	6.55	6.58	6.57
13C2-8:2FTS	7.43	7.03	7.83	7.42	7.45	7.45
13C8-PFOSA	8.08	7.68	8.48	8.02	8.05	8.05
d3-MeFOSA	10.13	9.73	10.53	10.10	10.13	10.13
d5-EtFOSA	10.46	10.06	10.86	10.44	10.46	10.46
d3-MeFOSAA	7.63	7.23	8.03	7.62	7.65	7.64
d5-EtFOSAA	7.77	7.37	8.17	7.76	7.79	7.79
d7-MeFOSE	10.07	9.67	10.47	10.05	10.07	10.07
d9-EtFOSE	10.36	9.96	10.76	10.34	10.37	10.37
13C3-HFPO-DA	5.74	5.34	6.14	5.73	5.76	5.76
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.95	1.55	2.35	1.96	1.95	1.96
13C2-PFHxA	5.48	5.08	5.88	5.47	5.50	5.50
13C4-PFOA	6.73	6.33	7.13	6.72	6.75	6.75
13C5-PFNA	7.18	6.78	7.58	7.17	7.20	7.20
13C2-PFDA	7.59	7.19	7.99	7.58	7.61	7.61
18O2-PFHxS	6.79	6.39	7.19	6.78	6.82	6.81
13C4-PFOS	7.71	7.31	8.11	7.69	7.72	7.72

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		Procedural Blank	Laboratory Control Sample
Standard ID		DQ745PB-FS	DQ746LCS-FS
Analysis Date		-	-
Analysis Time		-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)
PFBA	375-22-4	-	1.96
PFPeA	2706-90-3	-	4.41
PFHxA	307-24-4	-	5.49
PFHpA	375-85-9	-	6.20
PFOA	335-67-1	-	6.73
PFNA	375-95-1	-	7.18
PFDA	335-76-2	-	7.59
PFUnA	2058-94-8	-	7.98
PFDoA	307-55-1	-	8.35
PFTeDA	376-06-7	-	9.05
PFBS	375-73-5	-	5.37
PFHxS	355-46-4	-	6.79
PFOS	1763-23-1	-	7.70
4:2FTS	757124-72-4	-	5.28
6:2FTS	27619-97-2	-	6.56
8:2FTS	39108-34-4	-	7.43
PFOSA	754-91-6	-	8.05
NMeFOSA	31506-32-8	-	10.12
NEtFOSA	4151-50-2	-	10.46
NMeFOSAA	2355-31-9	-	7.63
NEtFOSAA	2991-50-6	-	7.77
NMeFOSE	24448-09-7	-	10.08
NEtFOSE	1691-99-2	-	10.38
HFPO-DA	13252-13-6	-	5.74
EIS		**RT**	**RT**
13C4-PFBA		1.95	1.95
13C5-PFPeA		4.41	4.40
13C5-PFHxA		5.49	5.48
13C4-PFHpA		6.21	6.19
13C8-PFOA		6.73	6.72
13C9-PFNA		7.18	7.17
13C6-PFDA		7.59	7.58
13C7-PFUnA		7.97	7.96
13C2-PFDoA		8.34	8.34
13C2-PFTeDA		9.04	9.05
13C3-PFBS		5.37	5.36
13C3-PFHxS		6.79	6.78
13C8-PFOS		7.70	7.69
13C2-4:2FTS		5.27	5.27
13C2-6:2FTS		6.57	6.55
13C2-8:2FTS		7.43	7.42
13C8-PFOSA		8.05	8.04
d3-MeFOSA		10.11	10.11
d5-EtFOSA		10.45	10.45
d3-MeFOSAA		7.62	7.62
d5-EtFOSAA		7.76	7.76
d7-MeFOSE		10.05	10.06
d9-EtFOSE		10.35	10.35
13C3-HFPO-DA		5.75	5.74

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		Laboratory Control Sample	WGNA-FB-20240318
Standard ID		DQ747LCS-FS	C2669-FS
Analysis Date		-	-
Analysis Time		-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.94	-
PFPeA	2706-90-3	4.43	-
PFHxA	307-24-4	5.51	-
PFHpA	375-85-9	6.23	-
PFOA	335-67-1	6.76	-
PFNA	375-95-1	7.21	-
PFDA	335-76-2	7.62	-
PFUnA	2058-94-8	8.00	-
PFDoA	307-55-1	8.38	-
PFTeDA	376-06-7	9.07	-
PFBS	375-73-5	5.39	-
PFHxS	355-46-4	6.82	-
PFOS	1763-23-1	7.73	-
4:2FTS	757124-72-4	5.29	-
6:2FTS	27619-97-2	6.59	-
8:2FTS	39108-34-4	7.46	-
PFOSA	754-91-6	8.07	-
NMeFOSA	31506-32-8	10.13	-
NEtFOSA	4151-50-2	10.47	-
NMeFOSAA	2355-31-9	7.65	-
NEtFOSAA	2991-50-6	7.79	-
NMeFOSE	24448-09-7	10.09	-
NEtFOSE	1691-99-2	10.39	-
HFPO-DA	13252-13-6	5.77	-
EIS		**RT**	**RT**
13C4-PFBA		1.93	1.93
13C5-PFPeA		4.41	4.40
13C5-PFHxA		5.50	5.48
13C4-PFHpA		6.22	6.21
13C8-PFOA		6.75	6.74
13C9-PFNA		7.20	7.19
13C6-PFDA		7.61	7.59
13C7-PFUnA		7.99	7.98
13C2-PFDoA		8.36	8.35
13C2-PFTeDA		9.06	9.05
13C3-PFBS		5.38	5.37
13C3-PFHxS		6.81	6.80
13C8-PFOS		7.72	7.71
13C2-4:2FTS		5.28	5.27
13C2-6:2FTS		6.58	6.57
13C2-8:2FTS		7.45	7.44
13C8-PFOSA		8.06	8.05
d3-MeFOSA		10.13	10.12
d5-EtFOSA		10.46	10.45
d3-MeFOSAA		7.64	7.63
d5-EtFOSAA		7.79	7.77
d7-MeFOSE		10.07	10.06
d9-EtFOSE		10.37	10.35
13C3-HFPO-DA		5.76	5.74

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		WGNA-SW-NCREF4-20240318	WGNA-SW-56-20240318	WGNA-SW-47-20240318	WGNA-SW-48-20240318
Standard ID		C2670-FS	C2671-FS	C2672-FS	C2673-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.95	1.94	1.93	1.94
PFPeA	2706-90-3	4.42	4.41	4.41	4.41
PFHxA	307-24-4	5.51	5.49	5.49	5.48
PFHpA	375-85-9	6.23	6.21	6.21	6.20
PFOA	335-67-1	6.76	6.74	6.74	6.73
PFNA	375-95-1	7.21	7.19	7.19	7.18
PFDA	335-76-2	-	-	-	-
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.39	5.37	5.37	5.37
PFHxS	355-46-4	6.82	6.80	6.79	6.79
PFOS	1763-23-1	7.70	7.69	7.71	7.61
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	6.59	6.57	6.56	-
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.94	1.93	1.92	1.93
13C5-PFPeA		4.41	4.40	4.40	4.40
13C5-PFHxA		5.50	5.48	5.48	5.47
13C4-PFHpA		6.22	6.20	6.19	6.19
13C8-PFOA		6.75	6.73	6.73	6.72
13C9-PFNA		7.20	7.18	7.17	7.17
13C6-PFDA		7.60	7.59	7.59	7.58
13C7-PFUnA		7.99	7.97	7.97	7.96
13C2-PFDoA		8.37	8.34	8.35	8.34
13C2-PFTeDA		9.07	9.05	9.06	9.04
13C3-PFBS		5.38	5.36	5.36	5.36
13C3-PFHxS		6.81	6.79	6.79	6.78
13C8-PFOS		7.71	7.70	7.70	7.69
13C2-4:2FTS		5.29	5.27	5.27	5.26
13C2-6:2FTS		6.58	6.56	6.55	6.55
13C2-8:2FTS		7.44	7.42	7.43	7.42
13C8-PFOSA		8.06	8.04	8.04	8.02
d3-MeFOSA		10.14	10.11	10.13	10.11
d5-EtFOSA		10.47	10.45	10.47	10.45
d3-MeFOSAA		7.64	7.62	7.62	7.61
d5-EtFOSAA		7.78	7.77	7.77	7.76
d7-MeFOSE		10.08	10.06	10.07	10.06
d9-EtFOSE		10.38	10.35	10.37	10.36
13C3-HFPO-DA		5.76	5.74	5.74	5.73

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description		WGNA-SW-46-20240318	WGNA-SW-45-20240318	WGNA-SW-49-20240318	WGNA-SW-54-20240318
Standard ID		C2674-FS	C2675-FS	C2676-FS	C2677-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.95	1.95	1.96	1.96
PFPeA	2706-90-3	4.40	4.42	4.41	4.44
PFHxA	307-24-4	5.47	5.50	5.48	5.51
PFHpA	375-85-9	6.19	6.21	6.20	6.24
PFOA	335-67-1	6.72	6.74	6.73	6.76
PFNA	375-95-1	7.17	7.19	7.18	7.21
PFDA	335-76-2	7.59	7.60	7.59	7.62
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.35	5.38	5.37	5.39
PFHxS	355-46-4	6.78	6.80	6.78	6.79
PFOS	1763-23-1	7.69	7.71	7.69	7.70
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	6.54	6.57	6.56	6.59
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.94	1.94	1.95	1.95
13C5-PFPeA		4.39	4.41	4.40	4.42
13C5-PFHxA		5.46	5.48	5.47	5.50
13C4-PFHpA		6.18	6.20	6.19	6.22
13C8-PFOA		6.71	6.73	6.72	6.75
13C9-PFNA		7.16	7.18	7.17	7.20
13C6-PFDA		7.57	7.59	7.58	7.61
13C7-PFUnA		7.96	7.98	7.96	7.99
13C2-PFDoA		8.33	8.35	8.34	8.36
13C2-PFTeDA		9.04	9.07	9.04	9.06
13C3-PFBS		5.34	5.37	5.36	5.39
13C3-PFHxS		6.77	6.79	6.78	6.81
13C8-PFOS		7.68	7.70	7.69	7.72
13C2-4:2FTS		5.25	5.27	5.27	5.29
13C2-6:2FTS		6.54	6.56	6.55	6.58
13C2-8:2FTS		7.41	7.43	7.42	7.45
13C8-PFOSA		8.02	8.04	8.02	8.05
d3-MeFOSA		10.11	10.12	10.10	10.13
d5-EtFOSA		10.45	10.46	10.44	10.46
d3-MeFOSAA		7.61	7.63	7.62	7.65
d5-EtFOSAA		7.75	7.77	7.76	7.79
d7-MeFOSE		10.06	10.07	10.05	10.07
d9-EtFOSE		10.35	10.36	10.34	10.37
13C3-HFPO-DA		5.72	5.74	5.73	5.76

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0204
Data Set: DP-24-0231
Test Code: EPA_1633

Client ID / Description	WGNA-SW-DUP-01-20240318
Standard ID	C2678-FS
Analysis Date	-
Analysis Time	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

Analyte	CAS No.	RT (minutes)
PFBA	375-22-4	1.97
PFPeA	2706-90-3	4.43
PFHxA	307-24-4	5.51
PFHpA	375-85-9	6.23
PFOA	335-67-1	6.75
PFNA	375-95-1	7.21
PFDA	335-76-2	-
PFUnA	2058-94-8	-
PFDoA	307-55-1	-
PFTeDA	376-06-7	-
PFBS	375-73-5	5.39
PFHxS	355-46-4	6.82
PFOS	1763-23-1	7.72
4:2FTS	757124-72-4	-
6:2FTS	27619-97-2	-
8:2FTS	39108-34-4	-
PFOSA	754-91-6	-
NMeFOSA	31506-32-8	-
NEtFOSA	4151-50-2	-
NMeFOSAA	2355-31-9	-
NEtFOSAA	2991-50-6	-
NMeFOSE	24448-09-7	-
NEtFOSE	1691-99-2	-
HFPO-DA	13252-13-6	-

EIS	**RT**
13C4-PFBA	1.96
13C5-PFPeA	4.42
13C5-PFHxA	5.50
13C4-PFHpA	6.22
13C8-PFOA	6.74
13C9-PFNA	7.19
13C6-PFDA	7.61
13C7-PFUnA	7.99
13C2-PFDoA	8.36
13C2-PFTeDA	9.06
13C3-PFBS	5.38
13C3-PFHxS	6.81
13C8-PFOS	7.72
13C2-4:2FTS	5.29
13C2-6:2FTS	6.57
13C2-8:2FTS	7.45
13C8-PFOSA	8.05
d3-MeFOSA	10.13
d5-EtFOSA	10.46
d3-MeFOSAA	7.64
d5-EtFOSAA	7.79
d7-MeFOSE	10.07
d9-EtFOSE	10.37
13C3-HFPO-DA	5.76

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MDL Values calculated based on 40 CFR 136 (2017)
Draft EPA 1633
Matrix: Water (based on 0.5 L sample)
Calculated to 3 significant figures

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.597	1.25	6.40
PFPeA	2706-90-3	0.563	1.25	3.20
PFHxA	307-24-4	0.412	1.00	1.60
PFHpA	375-85-9	0.173	0.50	1.60
PFOA	335-67-1	0.290	0.75	1.60
PFNA	375-95-1	0.250	0.50	1.60
PFDA	335-76-2	0.223	0.50	1.60
PFUnA	2058-94-8	0.203	0.50	1.60
PFDoA	307-55-1	0.301	0.75	1.60
PFTrDA	72629-94-8	0.363	0.75	1.60
PFTeDA	376-06-7	0.429	1.00	1.60
PFBS	375-73-5	0.177	0.50	1.60
PFPeS	2706-91-4	0.129	0.50	1.60
PFHxS	355-46-4	0.291	0.75	1.60
PFHpS	375-92-8	0.204	0.50	1.60
PFOS	1763-23-1	0.248	0.50	1.60
PFNS	68259-12-1	0.249	0.50	1.60
PFDS	335-77-3	0.162	0.50	1.60
PFDoS	79780-39-5	0.180	0.50	1.60
4:2FTS	757124-72-4	1.32	2.75	6.40
6:2FTS	27619-97-2	1.48	3.00	6.40
8:2FTS	39108-34-4	0.916	2.00	6.40
PFOSA	754-91-6	0.188	0.50	1.60
NMeFOSA	31506-32-8	0.199	0.50	1.60
NEtFOSA	4151-50-2	0.0998	0.25	1.60
NMeFOSAA	2355-31-9	0.655	1.50	1.60
NEtFOSAA	2991-50-6	0.571	1.25	1.60
NMeFOSE	24448-09-7	1.65	3.50	16.0
NEtFOSE	1691-99-2	1.45	3.00	16.0
HFPO-DA	13252-13-6	0.748	1.50	6.40
Adona	919005-14-4	0.694	1.50	6.40
PFMPA	377-73-1	0.628	1.50	3.20
PFMBA	863090-89-5	0.600	1.25	3.20
NFDHA	151772-58-6	0.760	1.75	3.20
9Cl-PF3ONS	756426-58-1	0.699	1.50	6.40
11Cl-PF3OUdS	763051-92-9	1.09	2.25	6.40

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Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFEESA	113507-82-7	0.212	0.50	3.20
3:3 FTCA	356-02-5	1.67	3.50	8.00
5:3 FTCA	914637-49-3	4.46	9.00	40.0
7:3 FTCA	812-70-4	5.22	10.50	40.0

All analytes are included on our DoD ELAP and NELAP scope of accreditation.

Analytical Transitions for PFAS in non-potable water, solid, and tissue

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	212.8 / 168.9	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 118.9
PFHpA	375-85-9	Target	363.1 / 319.0	363.1 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	512.9 / 469.0	512.9 / 219.0
PFUnA	2058-94-8	Target	563.1 / 519.0	563.1 / 269.1
PFDoA	307-55-1	Target	613.1 / 569.0	613.1 / 319.0
PFTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 168.9
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 168.9
PFBS	375-73-5	Target	298.7 / 79.9	298.9 / 98.8
PFPeS	2706-91-4	Target	349.1 / 79.9	349.1 / 98.9
PFHxS	355-46-4	Target	398.7 / 79.9	398.7 / 98.9
PFHpS	375-92-8	Target	449.0 / 79.9	449.0 / 98.9
PFOS	1763-23-1	Target	498.9 / 79.9	498.9 / 98.9
PFNS	68259-12-1	Target	548.8 / 79.9	548.8 / 98.9
PFDS	335-77-3	Target	599.0 / 79.9	599.0 / 98.9
PFDoS	79780-39-5	Target	699.1 / 79.9	699.1 / 98.9
4:2FTS	757124-72-4	Target	327.1 / 307.0	327.1 / 80.9
6:2FTS	27619-97-2	Target	427.1 / 407.0	427.1 / 80.9
8:2FTS	39108-34-4	Target	527.1 / 507.0	527.1 / 80.8
PFOSA	754-91-6	Target	498.1 / 77.9	498.1 / 478.0
NMeFOSA	31506-32-8	Target	511.9 / 219.0	511.9 / 169.0
NEtFOSA	4151-50-2	Target	526.0 / 219.0	526.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.1 / 419.0	570.1 / 483.0
NEtFOSAA	2991-50-6	Target	584.2 / 419.1	584.2 / 526.0
NMeFOSE	24448-09-7	Target	616.1 / 58.9	NA
NEtFOSE	1691-99-2	Target	630.0 / 58.9	NA
HFPO-DA	13252-13-6	Target	284.9 / 168.9	284.9 / 184.9
ADONA	919005-14-4	Target	376.9 / 250.9	376.9 / 84.8

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
9Cl-PF3ONS	756426-58-1	Target	530.8 / 351.0	532.8 / 353.0
11Cl-PF3OUdS	763051-92-9	Target	630.9 / 450.9	632.9 / 452.9
3:3 FTCA	356-02-5	Target	241.0 / 177.0	241.0 / 117.0
5:3 FTCA	914637-49-3	Target	341.0 / 237.1	341.0 / 217.0
7:3 FTCA	812-70-4	Target	441.0 / 316.9	441.0 / 336.9
NFDHA	151772-58-6	Target	295.0 / 201.1	295.0 / 84.9
PFEESA	113507-82-7	Target	314.8 / 134.9	314.8 / 82.9
PFMPA	377-73-1	Target	229.0 / 84.9	NA
PFMBA	863090-89-5	Target	279.0 / 85.1	NA
13C4-PFBA	NA	SIS[1]	216.8 / 171.9	NA
13C5-PFPeA	NA	SIS[1]	268.3 / 223.0	NA
13C5-PFHxA	NA	SIS[1]	318.0 / 273.0	NA
13C4-PFHpA	NA	SIS[1]	367.1 / 322.0	NA
13C8-PFOA	NA	SIS[1]	421.1 / 376.0	NA
13C9-PFNA	NA	SIS[1]	472.1 / 427.0	NA
13C6-PFDA	NA	SIS[1]	519.1 / 474.1	NA
13C7-PFUnA	NA	SIS[1]	570.0 / 525.1	NA
13C2-PFDoA	NA	SIS[1]	615.1 / 570.0	NA
13C2-PFTeDA	NA	SIS[1]	715.2 / 670.0	NA
13C3-PFBS	NA	SIS[1]	302.1 / 79.9	NA
13C3-PFHxS	NA	SIS[1]	402.1 / 79.9	NA
13C8-PFOS	NA	SIS[1]	507.1 / 79.9	NA
13C2-4:2FTS	NA	SIS[1]	329.1 / 80.9	NA
13C2-6:2FTS	NA	SIS[1]	429.1 / 80.9	NA
13C2-8:2FTS	NA	SIS[1]	529.1 / 80.9	NA
13C8-PFOSA	NA	SIS[1]	506.1 / 77.8	NA
d3-MeFOSA	NA	SIS[1]	515.0 / 219.0	NA
d5-EtFOSA	NA	SIS[1]	531.1 / 219.0	NA
d3-MeFOSAA	NA	SIS[1]	573.2 / 419.0	NA
d5-EtFOSAA	NA	SIS[1]	589.2 / 419.0	NA
d7-MeFOSE	NA	SIS[1]	623.2 / 58.9	NA

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
d9-EtFOSE	NA	SIS[1]	639.2 / 58.9	NA
13C3-HFPO-DA	NA	SIS[1]	286.9 / 168.9	NA
13C3-PFBA	NA	IS[2]	216.0 / 172.0	NA
13C2-PFHxA	NA	IS[2]	315.1 / 270.0	NA
13C4-PFOA	NA	IS[2]	417.1 / 172.0	NA
13C5-PFNA	NA	IS[2]	468.0 / 423.0	NA
13C2-PFDA	NA	IS[2]	515.1 / 470.1	NA
18O2-PFHxS	NA	IS[2]	403.0 / 103.0	NA
13C4-PFOS	NA	IS[2]	502.8 / 79.9	NA
$^{13}C_4$-PFOS	NA	IS[2]	503.0 / 99.0	NA

[1] – extracted internal standard (surrogate)
[2] – non-extracted internal standard

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BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

SOP Numbers (see workplan for modifications)

Extract/AnalyzeSOP No. 5-381

This Batch Contains The Following Samples:		
DQ745PB-FS	C2672-FS	C2678-FS
DQ746LCS-FS	C2673-FS	
DQ747LCS-FS	C2674-FS	
C2669-FS	C2675-FS	
C2670-FS	C2676-FS	
C2671-FS	C2677-FS	

Laboratory Preparation Records

COMPLETE AND VALIDATED

Prep Task Leader: Hayley Beal

Approved By:	Date	Initials
Kelsey Harnden	03/20/2024	KH

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BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	Description
DQ745PB-FS	Procedural Blank
DQ746LCS-FS	Laboratory Control Sample
DQ747LCS-FS	Laboratory Control Sample
C2669-FS	WGNA-FB-20240318
C2670-FS	WGNA-SW-NCREF4-20240318
C2671-FS	WGNA-SW-56-20240318
C2672-FS	WGNA-SW-47-20240318
C2673-FS	WGNA-SW-48-20240318
C2674-FS	WGNA-SW-46-20240318
C2675-FS	WGNA-SW-45-20240318
C2676-FS	WGNA-SW-49-20240318
C2677-FS	WGNA-SW-54-20240318
C2678-FS	WGNA-SW-DUP-01-20240318

Samples Assigned By: Matt Schumitz

Date : March 19, 2024
Due Date : April 9, 2024

Comments:

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BATTELLE - NORWELL OPERATIONS
SAMPLE CUSTODY LOG

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

Requested On/By:	03/20/2024 HB	**Purpose:**	Sample Preparation
Relinquished On/By:	03/20/2024 CB	**Last Activity:**	Transfer

Accepted On/By:	03/20/2024 HB	**Returned On/To:**	
Stored In Facility:	Sample Preparation	**Returned To Facility:**	
Stored Until			
Stored Comment:	NA	**Returned Comment:**	NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	C2669	1	C	Consumed	NA
2	C2670	1	C	Consumed	NA
3	C2671	1	C	Consumed	NA
4	C2672	1	C	Consumed	NA
5	C2673	1	C	Consumed	NA
6	C2674	1	C	Consumed	NA
7	C2675	1	C	Consumed	NA
8	C2676	1	C	Consumed	NA
9	C2677	1	C	Consumed	NA
10	C2678	1	C	Consumed	NA

Total Samples 10 * "C" = Consumed Container

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BATTELLE - NORWELL OPERATIONS
SAMPLE VOLUME FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0204

CTO-WE04 Willow Grove WR-125

Sample ID	Bottles	*	Calc. By Wt.	pH Check	Initial Wt. (g)	Empty Wt. (g)	Volume (mL)	Vol. Recorded
DQ745PB-FS	NA	--	Yes	Valid	557.04	42.51	515.0	NA
DQ746LCS-FS	NA	--	Yes	Valid	535.09	42.33	493.0	NA
DQ747LCS-FS	NA	--	Yes	Valid	541.42	42.66	499.0	NA
C2669-FS	1	C	Yes	Valid	535.55	43.18	492.0	NA
C2670-FS	1	C	Yes	Valid	534.28	44.6	490.0	NA
C2671-FS	1	C	Yes	Valid	535.12	44.59	491.0	NA
C2672-FS	1	C	Yes	Valid	561.46	44.47	517.0	NA
C2673-FS	1	C	Yes	Valid	549.95	44.75	505.0	NA
C2674-FS	1	C	Yes	Valid	509.37	44.19	465.0	NA
C2675-FS	1	C	Yes	Valid	556.85	43.74	513.0	NA
C2676-FS	1	C	Yes	Valid	560.65	44.46	516.0	NA
C2677-FS	1	C	Yes	Valid	581.45	44.26	537.0	NA
C2678-FS	1	C	Yes	Valid	511.67	43.95	468.0	NA

Balance Information:

Initial Wt. Balance:	Initial Wt Date/Initials:	Empty Wt. Balance:	Empty Wt Date/Initials:
BAL-009	03/20/24 HB	BAL-009	03/21/24 HB

Calc. by Wt. - if yes, volume is calculated as the total weight of the bottle - empty weight, assuming a Density of 1, value rounded to nearest whole number. If yes, Vol. Recorded Date/Initials will be "NA"

* - "C" = Sample is Consumed

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DQ745PB-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
DQ746LCS-FS	MC88	LCS/MS	1	100	03/20/24 HB	OF	NA
DQ746LCS-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
DQ747LCS-FS	MC47	LCS/MS	1	80	03/20/24 HB	OF	NA
DQ747LCS-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2669-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2670-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2671-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2672-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2673-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2674-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2675-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2676-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2677-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA
C2678-FS	MD09	SIS	1	50	03/20/24 HB	OF	NA

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MC47	Pipette	B814659662
MC88	Pipette	B814659662
MD09	Pipette	B814659662

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment
DQ745PB-FS	03/20/24 HB	NA	NA	NA
DQ746LCS-FS	03/20/24 HB	NA	NA	NA
DQ747LCS-FS	03/20/24 HB	NA	NA	NA
C2669-FS	03/20/24 HB	NA	NA	NA
C2670-FS	03/20/24 HB	NA	NA	NA
C2671-FS	03/20/24 HB	NA	NA	NA
C2672-FS	03/20/24 HB	NA	NA	NA
C2673-FS	03/20/24 HB	NA	NA	NA
C2674-FS	03/20/24 HB	NA	NA	NA
C2675-FS	03/20/24 HB	NA	NA	NA
C2676-FS	03/20/24 HB	NA	NA	NA
C2677-FS	03/20/24 HB	NA	NA	NA
C2678-FS	03/20/24 HB	NA	NA	NA

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
1% NH3OH in Methanol	RP-240320-2	04/20/24	A0452523	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
1% NH3OH in Methanol	RP-240320-2	04/20/24	232699	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
0.3M Formic Acid	RP-240320-3	04/20/24	A0445104	377ul formic acid brought to 100mL PFAS Free Water	
1:1 0.1M Formic Acid	RP-240320-4	04/20/24	A0445104	1132ul formic acid brought to 100mL PFAS Free Water, brought to 200mL MeOH	
1:1 0.1M Formic Acid	RP-240320-4	04/20/24	232699	1132ul formic acid brought to 100mL PFAS Free Water, brought to 200mL MeOH	
Pre-packed SPE Carbon Column	RP-240320-5	03/20/24	M05773/1260		
Pre-packed SPE Carbon Column	RP-240320-5	03/20/24	171936		

Solvents/Reagents:

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DQ745PB-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
DQ746LCS-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
DQ747LCS-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2669-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2670-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2671-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2672-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2673-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2674-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2675-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2676-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2676-FS-D(3)	4960	40	MD10	50	1	5000	5.000	03/21/24 KB	JS
C2676-FS-D(5)	4960	40	MD10	50	1	5000	25.000	03/21/24 KB	JS
C2677-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD
C2677-FS-D(3)	4960	40	MD10	50	1	5000	5.000	03/21/24 KB	JS
C2677-FS-D(5)	4960	40	MD10	50	1	5000	25.000	03/21/24 KB	JS
C2678-FS(0)	4950	50	MD10	50	1	5000	1.000	03/20/24 HB	ZMD

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MD10	Pipette	B814659662

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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It can be done

BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DQ745PB-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
DQ746LCS-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
DQ747LCS-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2669-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2670-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2671-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2672-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2673-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2674-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2675-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2676-FS	0	C	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2676-FS	2	--	3/21/2024 10:26:00 AM	C2676-FS	0	5000	4000	1.250	1.250	03/21/24 KB
C2676-FS-D	3	C	3/21/2024 10:26:00 AM	C2676-FS	0	5000	1000	5.000	5.000	03/21/24 KB
C2676-FS-D	4	--	3/21/2024 10:27:00 AM	C2676-FS-D	3	5000	4000	1.250	6.250	03/21/24 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

BATTELLE
It can be done

BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
C2676-FS-D	5	--	3/21/2024 10:27:00 AM	C2676-FS-D	3	5000	1000	5.000	25.000	03/21/24 KB
C2677-FS	0	C	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB
C2677-FS	2	--	3/21/2024 10:26:00 AM	C2677-FS	0	5000	4000	1.250	1.250	03/21/24 KB
C2677-FS-D	3	C	3/21/2024 10:26:00 AM	C2677-FS	0	5000	1000	5.000	5.000	03/21/24 KB
C2677-FS-D	4	--	3/21/2024 10:27:00 AM	C2677-FS-D	3	5000	4000	1.250	6.250	03/21/24 KB
C2677-FS-D	5	--	3/21/2024 10:27:00 AM	C2677-FS-D	3	5000	1000	5.000	25.000	03/21/24 KB
C2678-FS	0	--	3/20/2024 11:20:00 AM	NA		NA	NA	1.000	1.000	03/20/24 HB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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It can be done

BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Purpose:	LC-MS/MS TRANSFER	**Last Activity:**	Prep->Inst
Relinquished On/By:	Mar 20 2024 2:05PM HB	**Received On/By:**	Mar 20 2024 2:57PM KH
Relinquished From:	Sample Preparation: NA	**Received Location:**	LC Laboratory #1: NA
Relinquish Comment:	NA	**Received Comment:**	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	DQ745PB-FS(0)	5000	1	Intact	NA
2	DQ746LCS-FS(0)	5000	1	Intact	NA
3	DQ747LCS-FS(0)	5000	1	Intact	NA
4	C2669-FS(0)	5000	1	Intact	NA
5	C2670-FS(0)	5000	1	Intact	NA
6	C2671-FS(0)	5000	1	Intact	NA
7	C2672-FS(0)	5000	1	Intact	NA
8	C2673-FS(0)	5000	1	Intact	NA
9	C2674-FS(0)	5000	1	Intact	NA
10	C2675-FS(0)	5000	1	Intact	NA
11	C2676-FS(0)	5000	1	Intact	NA
12	C2677-FS(0)	5000	1	Intact	NA
13	C2678-FS(0)	5000	1	Intact	NA

Total Extracts: 13

BATTELLE
It can be done

BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.X
X.0125.00000
1

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Purpose:	LC-MS/MS TRANSFER	**Last Activity:**	Prep->Inst
Relinquished On/By:	Mar 21 2024 1:08PM OF	**Received On/By:**	Mar 21 2024 1:08PM KB
Relinquished From:	Sample Preparation: NA	**Received Location:**	LC Laboratory #1: NA
Relinquish Comment:	NA	**Received Comment:**	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	C2676-FS-D(3)	5000	5	Intact	NA
2	C2676-FS-D(5)	5000	25	Intact	NA
3	C2677-FS-D(3)	5000	5	Intact	NA
4	C2677-FS-D(5)	5000	25	Intact	NA

Total Extracts: 4

BATTELLE
It can be done

BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0204
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID:	Comment:	Date/Initials:
DQ745PB-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 2:08 PM.	03/20/24 HB
DQ746LCS-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 2:13 PM.	03/20/24 HB
DQ747LCS-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 2:05 PM.	03/20/24 HB
C2669-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 1:35 PM.	03/20/24 HB
C2670-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 1:45 PM.	03/20/24 HB
C2670-FS	Sample contained particulates.	03/20/24 HB
C2671-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 1:35 PM.	03/20/24 HB
C2671-FS	Sample contained particulates.	03/20/24 HB
C2672-FS	Extraction started at 11:20 AM, on manifold 15, and ended at 1:28 PM.	03/20/24 HB
C2672-FS	Sample contained particulates.	03/20/24 HB
C2673-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:50 PM.	03/20/24 HB
C2673-FS	Sample contained particulates.	03/20/24 HB
C2674-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:29 PM.	03/20/24 HB
C2674-FS	Sample contained particulates.	03/20/24 HB
C2675-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:48 PM.	03/20/24 HB
C2675-FS	Sample contained particulates.	03/20/24 HB
C2676-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:41 PM.	03/20/24 HB
C2676-FS	Sample contained particulates.	03/20/24 HB
C2677-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:53 PM.	03/20/24 HB
C2677-FS	Sample contained particulates.	03/20/24 HB
C2678-FS	Extraction started at 11:20 AM, on manifold 9, and ended at 1:37 PM.	03/20/24 HB
C2678-FS	Sample contained particulates.	03/20/24 HB

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It can be done

BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.000001

24-0204

CTO-WE04 Willow Grove WR-125

QC, SW

Entered By:	**On:**

Task Leader Approval:	**On:**
SupervisorApproval:	**On:**
PM Approval:	**On:**

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 21/03/2024 3:08:21 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
2	MC59	L1	3/20/2024 6:49:46 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
3	MC60	L2	3/20/2024 7:12:32 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
4	MC61	L3	3/20/2024 7:35:21 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
5	MC62	L4	3/20/2024 7:58:06 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
6	MC63	L5	3/20/2024 8:20:53 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
7	MC64	L6	3/20/2024 8:43:40 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
8	MC65	L7	3/20/2024 9:06:26 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
9	MC66 IB	Instrument Blank	3/20/2024 9:29:15 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
10	MC43 ICC	ICC	3/20/2024 9:52:04 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
11	MC59 ISC	ISC	3/20/2024 10:14:53 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
12	MC62 CV	CV	3/20/2024 10:37:39 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
13	MC72 TDCA	TDCA	3/20/2024 11:00:27 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
14	MC66 IB	Instrument Blank	3/20/2024 11:23:14 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
15	DQ745PB-FS(0)	Procedural Blank	3/20/2024 11:45:59 PM	D:\SCIEX OS Data\PFAS\Acquisition	AG_03202024_1633.wiff

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Sequence Report

Created with Analyst Reporter
Printed: 21/03/2024 3:08:21 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
				Methods\1633_MS.msm	
16	DQ746LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:08:47 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
17	DQ747LCS-FS(0)	Laboratory Control Sample	3/21/2024 12:31:36 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
18	C2669-FS(0)	WGNA-FB-20240318	3/21/2024 12:54:25 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
19	C2670-FS(0)	WGNA-SW-NCREF4-20240318	3/21/2024 1:17:16 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
20	C2671-FS(0)	WGNA-SW-56-20240318	3/21/2024 1:40:02 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
21	C2672-FS(0)	WGNA-SW-47-20240318	3/21/2024 2:02:51 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
22	4%		3/21/2024 2:25:40 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
23	MC62 CV	CV	3/21/2024 2:48:25 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
24	MC66 IB	Instrument Blank	3/21/2024 3:11:13 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
25	C2673-FS(0)	WGNA-SW-48-20240318	3/21/2024 3:33:59 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
26	C2674-FS(0)	WGNA-SW-46-20240318	3/21/2024 3:56:48 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
27	C2675-FS(0)	WGNA-SW-45-20240318	3/21/2024 4:19:36 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
28	C2676-FS(0)	WGNA-SW-49-20240318	3/21/2024 4:42:22 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 21/03/2024 3:08:21 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
29	C2677-FS(0)	WGNA-SW-54-20240318	3/21/2024 5:05:10 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
30	C2678-FS(0)	WGNA-SW-DUP-01-20240318	3/21/2024 5:27:58 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
31	4%		3/21/2024 5:50:45 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
32	MC63 CV	CV	3/21/2024 6:13:31 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
33	MC66 IB	Instrument Blank	3/21/2024 6:36:19 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
~~34~~	~~DQ725PB-FS(0)~~		~~3/21/2024 10:18:53 AM~~	~~D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm~~	~~AG_03202024_1633.wiff~~
~~35~~	~~DQ726LCS-FS(0)~~		~~3/21/2024 10:41:40 AM~~	~~D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm~~	~~AG_03202024_1633.wiff~~
~~36~~	~~DQ727LCS-FS(0)~~		~~3/21/2024 11:04:26 AM~~	~~D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm~~	~~AG_03202024_1633.wiff~~
~~37~~	~~DQ728LCS-FS(0)~~		~~3/21/2024 11:27:13 AM~~	~~D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm~~	~~AG_03202024_1633.wiff~~
~~38~~	~~DQ729LCS-FS(0)~~		~~3/21/2024 11:50:02 AM~~	~~D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm~~	~~AG_03202024_1633.wiff~~
43	C2676-FS-D(3)	WGNA-SW-49-20240318	3/21/2024 12:12:48 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
44	C2677-FS-D(3)	WGNA-SW-54-20240318	3/21/2024 12:35:36 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
39	4%		3/21/2024 1:05:23 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
40	MC72 TDCA	TDCA	3/21/2024 1:28:09 PM	D:\SCIEX OS Data\PFAS\Acquisition	AG_03202024_1633.wiff

1

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 21/03/2024 3:08:21 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
				Methods\1633_MS.msm	
41	MC59 CV	CV	3/21/2024 1:50:56 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff
42	MC66 IB	Instrument Blank	3/21/2024 2:13:43 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03202024_1633.wiff

1. Samples not part of this batch. KB 3/21/2024

Analyte Name	PFBA	**Data File**	AG_03202024_1633.wiff
MRM Transition	212.8 / 168.9	**Result Table**	24-0204
Internal Standard	13C4-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.09588 x (std. dev. = 0.04232) (weighting: None) RSD: 3.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.1491	0.801	0.840	104.9
3	MC60	L2	True	1.0967	1.999	2.001	100.1
4	MC61	L3	True	1.1054	5.004	5.047	100.9
5	MC62	L4	True	1.0830	9.993	9.876	98.8
6	MC63	L5	True	1.0384	19.990	18.942	94.8
7	MC64	L6	True	1.0527	49.997	48.026	96.1
8	MC65	L7	True	1.1458	250.000	261.397	104.6

Analyte Name	PFPeA	**Data File**	AG_03202024_1633.wiff
MRM Transition	263.0 / 219.0	**Result Table**	24-0204
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.45759 x (std. dev. = 0.05245) (weighting: None) RSD: 3.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.4674	0.400	0.403	100.7
3	MC60	L2	True	1.4826	0.999	1.016	101.7
4	MC61	L3	True	1.5347	2.502	2.634	105.3
5	MC62	L4	True	1.4188	4.996	4.863	97.3
6	MC63	L5	True	1.3946	9.995	9.563	95.7
7	MC64	L6	True	1.4060	24.998	24.113	96.5
8	MC65	L7	True	1.4990	125.000	128.553	102.8

Analyte Name	PFHxA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	313.0 / 269.0	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.05057 x (std. dev. = 0.05292) (weighting: None) RSD: 5.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.1205	0.200	0.213	106.7
3	MC60	L2	True	1.0747	0.500	0.511	102.3
4	MC61	L3	True	1.0585	1.251	1.260	100.8
5	MC62	L4	True	1.0541	2.498	2.506	100.3
6	MC63	L5	True	0.9824	4.998	4.674	93.5
7	MC64	L6	True	0.9775	12.499	11.630	93.0
8	MC65	L7	True	1.0863	62.500	64.625	103.4

Analyte Name	PFHxA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	313.0 / 118.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06189 x (std. dev. = 0.00481) (weighting: None) RSD: 7.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0688	0.200	0.222	111.2
3	MC60	L2	True	0.0660	0.500	0.533	106.6
4	MC61	L3	True	0.0549	1.251	1.109	88.7
5	MC62	L4	True	0.0634	2.498	2.559	102.4
6	MC63	L5	True	0.0574	4.998	4.636	92.8
7	MC64	L6	True	0.0603	12.499	12.188	97.5
8	MC65	L7	True	0.0624	62.500	63.027	100.8

Analyte Name	PFHpA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	363.1 / 319.0	**Result Table**	24-0204
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.00279 x (std. dev. = 0.04883) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.0741	0.200	0.214	107.1
3	MC60	L2	True	1.0360	0.500	0.517	103.3
4	MC61	L3	True	1.0006	1.251	1.248	99.8
5	MC62	L4	True	0.9881	2.498	2.461	98.5
6	MC63	L5	True	0.9529	4.998	4.749	95.0
7	MC64	L6	True	0.9355	12.499	11.660	93.3
8	MC65	L7	True	1.0324	62.500	64.345	103.0

Analyte Name	PFHpA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	363.1 / 169.0	**Result Table**	24-0204
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.02122 x (std. dev. = 0.00239) (weighting: None) RSD: 11.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0248	0.200	0.234	116.8
3	MC60	L2	True	0.0178	0.500	0.419	83.7
4	MC61	L3	True	0.0219	1.251	1.291	103.2
5	MC62	L4	True	0.0221	2.498	2.606	104.3
6	MC63	L5	True	0.0199	4.998	4.693	93.9
7	MC64	L6	True	0.0192	12.499	11.318	90.6
8	MC65	L7	True	0.0228	62.500	67.252	107.6

Analyte Name	PFOA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	413.0 / 369.0	**Result Table**	24-0204
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.89799 x (std. dev. = 0.03056) (weighting: None) RSD: 3.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9315	0.200	0.207	103.7
3	MC60	L2	True	0.9229	0.500	0.514	102.8
4	MC61	L3	True	0.9142	1.253	1.276	101.8
5	MC62	L4	True	0.8925	2.501	2.486	99.4
6	MC63	L5	True	0.8673	5.003	4.832	96.6
7	MC64	L6	True	0.8481	12.514	11.819	94.4
8	MC65	L7	True	0.9095	62.575	63.377	101.3

Analyte Name	PFOA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	413.0 / 169.0	**Result Table**	24-0204
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09941 x (std. dev. = 0.00488) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1073	0.200	0.216	108.0
3	MC60	L2	True	0.0977	0.500	0.491	98.3
4	MC61	L3	True	0.1002	1.253	1.263	100.8
5	MC62	L4	True	0.0943	2.501	2.373	94.9
6	MC63	L5	True	0.0963	5.003	4.845	96.8
7	MC64	L6	True	0.0955	12.514	12.027	96.1
8	MC65	L7	True	0.1045	62.575	65.767	105.1

Analyte Name	PFNA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	463.0 / 419.0	**Result Table**	24-0204
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.53387 x (std. dev. = 0.02592) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5324	0.200	0.199	99.7
3	MC60	L2	True	0.5253	0.499	0.491	98.4
4	MC61	L3	True	0.5540	1.250	1.297	103.8
5	MC62	L4	True	0.5220	2.496	2.440	97.8
6	MC63	L5	True	0.5074	4.994	4.746	95.0
7	MC64	L6	True	0.5141	12.489	12.027	96.3
8	MC65	L7	True	0.5820	62.450	68.082	109.0

Analyte Name	PFNA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	463.0 / 219.0	**Result Table**	24-0204
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28454 x (std. dev. = 0.01934) (weighting: None) RSD: 6.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2968	0.200	0.209	104.3
3	MC60	L2	True	0.2735	0.499	0.480	96.1
4	MC61	L3	True	0.3113	1.250	1.367	109.4
5	MC62	L4	True	0.2733	2.496	2.397	96.1
6	MC63	L5	True	0.2732	4.994	4.795	96.0
7	MC64	L6	True	0.2596	12.489	11.395	91.2
8	MC65	L7	True	0.3041	62.450	66.736	106.9

Analyte Name	PFDA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	512.9 / 469.0	**Result Table**	24-0204
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.68914 x (std. dev. = 0.03421) (weighting: None) RSD: 5.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.6800	0.200	0.197	98.7
3	MC60	L2	True	0.7015	0.500	0.509	101.8
4	MC61	L3	True	0.7513	1.251	1.364	109.0
5	MC62	L4	True	0.6514	2.498	2.361	94.5
6	MC63	L5	True	0.6574	4.998	4.768	95.4
7	MC64	L6	True	0.6756	12.499	12.253	98.0
8	MC65	L7	True	0.7066	62.500	64.086	102.5

Analyte Name	PFDA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	512.9 / 219.0	**Result Table**	24-0204
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.03728 x (std. dev. = 0.00305) (weighting: None) RSD: 8.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0363	0.200	0.195	97.5
3	MC60	L2	True	0.0427	0.500	0.572	114.5
4	MC61	L3	True	0.0367	1.251	1.230	98.4
5	MC62	L4	True	0.0366	2.498	2.454	98.2
6	MC63	L5	True	0.0334	4.998	4.474	89.5
7	MC64	L6	True	0.0355	12.499	11.889	95.1
8	MC65	L7	True	0.0398	62.500	66.754	106.8

Analyte Name	PFUnA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	563.1 / 519.0	**Result Table**	24-0204
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.21216 x (std. dev. = 0.07549) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.1927	0.200	0.197	98.4
3	MC60	L2	True	1.2879	0.500	0.531	106.3
4	MC61	L3	True	1.3237	1.251	1.366	109.2
5	MC62	L4	True	1.2383	2.498	2.552	102.2
6	MC63	L5	True	1.1313	4.998	4.664	93.3
7	MC64	L6	True	1.1872	12.499	12.242	97.9
8	MC65	L7	True	1.1240	62.500	57.952	92.7

Analyte Name	PFUnA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	563.1 / 269.1	**Result Table**	24-0204
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06058 x (std. dev. = 0.00978) (weighting: None) RSD: 16.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0784	0.200	0.259	129.4
3	MC60	L2	True	0.0582	0.500	0.480	96.1
4	MC61	L3	True	0.0696	1.251	1.436	114.8
5	MC62	L4	True	0.0560	2.498	2.310	92.5
6	MC63	L5	True	0.0563	4.998	4.641	92.9
7	MC64	L6	True	0.0507	12.499	10.454	83.6
8	MC65	L7	True	0.0550	62.500	56.712	90.7

Analyte Name	PFDoA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	613.1 / 569.0	**Result Table**	24-0204
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.41499 x (std. dev. = 0.03931) (weighting: None) RSD: 9.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.4073	0.200	0.196	98.1
3	MC60	L2	True	0.4746	0.500	0.572	114.4
4	MC61	L3	True	0.4079	1.251	1.229	98.3
5	MC62	L4	True	0.4153	2.498	2.500	100.1
6	MC63	L5	True	0.3660	4.998	4.409	88.2
7	MC64	L6	True	0.3769	12.499	11.351	90.8
8	MC65	L7	True	0.4570	62.500	68.825	110.1

Analyte Name	PFDoA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	613.1 / 319.0	**Result Table**	24-0204
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.13255 x (std. dev. = 0.01427) (weighting: None) RSD: 10.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1445	0.200	0.218	109.0
3	MC60	L2	True	0.1532	0.500	0.578	115.6
4	MC61	L3	True	0.1245	1.251	1.175	93.9
5	MC62	L4	True	0.1309	2.498	2.468	98.8
6	MC63	L5	True	0.1164	4.998	4.389	87.8
7	MC64	L6	True	0.1169	12.499	11.021	88.2
8	MC65	L7	True	0.1415	62.500	66.705	106.7

Analyte Name	PFTrDA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	663.0 / 619.0	**Result Table**	24-0204
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.17546 x (std. dev. = 0.20051) (weighting: None) RSD: 9.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	2.2271	0.200	0.205	102.4
3	MC60	L2	True	2.4006	0.500	0.552	110.4
4	MC61	L3	True	2.2981	1.251	1.322	105.6
5	MC62	L4	True	2.2836	2.498	2.622	105.0
6	MC63	L5	True	2.1708	4.998	4.987	99.8
7	MC64	L6	True	2.0557	12.499	11.811	94.5
8	MC65	L7	True	1.7924	62.500	51.494	82.4

Analyte Name	PFTrDA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	663.0 / 168.9	**Result Table**	24-0204
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.12449 x (std. dev. = 0.00669) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1264	0.200	0.203	101.5
3	MC60	L2	True	0.1305	0.500	0.524	104.8
4	MC61	L3	True	0.1313	1.251	1.320	105.5
5	MC62	L4	True	0.1245	2.498	2.498	100.0
6	MC63	L5	True	0.1238	4.998	4.970	99.4
7	MC64	L6	True	0.1239	12.499	12.441	99.5
8	MC65	L7	True	0.1110	62.500	55.741	89.2

Analyte Name	PFTeDA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	713.0 / 669.0	**Result Table**	24-0204
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.52973 x (std. dev. = 0.06067) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.6327	0.200	0.213	106.7
3	MC60	L2	True	1.5326	0.500	0.501	100.2
4	MC61	L3	True	1.5036	1.251	1.230	98.3
5	MC62	L4	True	1.4370	2.498	2.347	93.9
6	MC63	L5	True	1.5428	4.998	5.041	100.9
7	MC64	L6	True	1.4980	12.499	12.239	97.9
8	MC65	L7	True	1.5614	62.500	63.794	102.1

Analyte Name	PFTeDA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	713.0 / 168.9	**Result Table**	24-0204
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08454 x (std. dev. = 0.00476) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0909	0.200	0.215	107.5
3	MC60	L2	True	0.0886	0.500	0.524	104.8
4	MC61	L3	True	0.0825	1.251	1.221	97.6
5	MC62	L4	True	0.0802	2.498	2.370	94.9
6	MC63	L5	True	0.0846	4.998	4.999	100.0
7	MC64	L6	True	0.0776	12.499	11.476	91.8
8	MC65	L7	True	0.0874	62.500	64.592	103.4

Analyte Name	PFBS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	298.7 / 79.9	**Result Table**	24-0204
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.47592 x (std. dev. = 0.03768) (weighting: None) RSD: 7.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5287	0.178	0.198	111.1
3	MC60	L2	True	0.4821	0.444	0.450	101.3
4	MC61	L3	True	0.4683	1.111	1.093	98.4
5	MC62	L4	True	0.5174	2.218	2.411	108.7
6	MC63	L5	True	0.4202	4.438	3.918	88.3
7	MC64	L6	True	0.4496	11.099	10.486	94.5
8	MC65	L7	True	0.4651	55.500	54.239	97.7

Analyte Name	PFBS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	298.9 / 98.8	**Result Table**	24-0204
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19714 x (std. dev. = 0.01282) (weighting: None) RSD: 6.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1795	0.178	0.162	91.0
3	MC60	L2	True	0.2063	0.444	0.465	104.7
4	MC61	L3	True	0.1918	1.111	1.081	97.3
5	MC62	L4	True	0.2157	2.218	2.426	109.4
6	MC63	L5	True	0.1849	4.438	4.162	93.8
7	MC64	L6	True	0.1965	11.099	11.061	99.7
8	MC65	L7	True	0.2054	55.500	57.816	104.2

Analyte Name	PFPeS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	349.1 / 79.9	**Result Table**	24-0204
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.51864 x (std. dev. = 0.04262) (weighting: None) RSD: 8.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5504	0.188	0.200	106.1
3	MC60	L2	True	0.5594	0.470	0.507	107.9
4	MC61	L3	True	0.5385	1.176	1.221	103.8
5	MC62	L4	True	0.5589	2.348	2.530	107.8
6	MC63	L5	True	0.4867	4.698	4.409	93.9
7	MC64	L6	True	0.4756	11.749	10.774	91.7
8	MC65	L7	True	0.4609	58.750	52.206	88.9

Analyte Name	PFPeS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	349.1 / 98.9	**Result Table**	24-0204
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21726 x (std. dev. = 0.02544) (weighting: None) RSD: 11.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2567	0.188	0.222	118.2
3	MC60	L2	True	0.2375	0.470	0.514	109.3
4	MC61	L3	True	0.2097	1.176	1.135	96.5
5	MC62	L4	True	0.2332	2.348	2.520	107.3
6	MC63	L5	True	0.1949	4.698	4.214	89.7
7	MC64	L6	True	0.2005	11.749	10.844	92.3
8	MC65	L7	True	0.1884	58.750	50.952	86.7

Analyte Name	PFHxS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	398.7 / 79.9	**Result Table**	24-0204
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.86140 x (std. dev. = 0.07425) (weighting: None) RSD: 8.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9874	0.183	0.210	114.6
3	MC60	L2	True	0.8842	0.456	0.468	102.6
4	MC61	L3	True	0.8722	1.141	1.155	101.3
5	MC62	L4	True	0.8593	2.279	2.273	99.8
6	MC63	L5	True	0.7633	4.560	4.041	88.6
7	MC64	L6	True	0.7808	11.404	10.337	90.6
8	MC65	L7	True	0.8827	57.025	58.434	102.5

Analyte Name	PFHxS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	398.7 / 98.9	**Result Table**	24-0204
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29779 x (std. dev. = 0.03938) (weighting: None) RSD: 13.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.3750	0.183	0.230	125.9
3	MC60	L2	True	0.2994	0.456	0.458	100.5
4	MC61	L3	True	0.2853	1.141	1.093	95.8
5	MC62	L4	True	0.2997	2.279	2.294	100.7
6	MC63	L5	True	0.2540	4.560	3.889	85.3
7	MC64	L6	True	0.2636	11.404	10.095	88.5
8	MC65	L7	True	0.3075	57.025	58.892	103.3

Analyte Name	PFHpS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	449.0 / 79.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.34416 x (std. dev. = 0.09538) (weighting: None) RSD: 7.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.4210	0.191	0.202	105.7
3	MC60	L2	True	1.4300	0.476	0.506	106.4
4	MC61	L3	True	1.3905	1.191	1.232	103.5
5	MC62	L4	True	1.4015	2.378	2.479	104.3
6	MC63	L5	True	1.2881	4.758	4.560	95.8
7	MC64	L6	True	1.1661	11.899	10.323	86.8
8	MC65	L7	True	1.3119	59.500	58.072	97.6

Analyte Name	PFHpS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	449.0 / 98.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.39716 x (std. dev. = 0.02751) (weighting: None) RSD: 6.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.4337	0.191	0.209	109.2
3	MC60	L2	True	0.4275	0.476	0.512	107.6
4	MC61	L3	True	0.3907	1.191	1.172	98.4
5	MC62	L4	True	0.4062	2.378	2.432	102.3
6	MC63	L5	True	0.3906	4.758	4.680	98.4
7	MC64	L6	True	0.3572	11.899	10.701	89.9
8	MC65	L7	True	0.3743	59.500	56.080	94.3

Analyte Name	PFOS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	498.9 / 79.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.29512 x (std. dev. = 0.10544) (weighting: None) RSD: 8.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.3094	0.186	0.188	101.1
3	MC60	L2	True	1.4334	0.464	0.514	110.7
4	MC61	L3	True	1.3002	1.161	1.166	100.4
5	MC62	L4	True	1.3649	2.318	2.443	105.4
6	MC63	L5	True	1.2078	4.638	4.325	93.3
7	MC64	L6	True	1.1131	11.599	9.969	86.0
8	MC65	L7	True	1.3369	58.000	59.873	103.2

Analyte Name	PFOS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	498.9 / 98.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26319 x (std. dev. = 0.02298) (weighting: None) RSD: 8.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2646	0.186	0.187	100.6
3	MC60	L2	True	0.3030	0.464	0.534	115.1
4	MC61	L3	True	0.2616	1.161	1.154	99.4
5	MC62	L4	True	0.2712	2.318	2.389	103.1
6	MC63	L5	True	0.2407	4.638	4.242	91.5
7	MC64	L6	True	0.2320	11.599	10.223	88.1
8	MC65	L7	True	0.2692	58.000	59.323	102.3

Analyte Name	PFNS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	548.8 / 79.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.61609 x (std. dev. = 0.04031) (weighting: None) RSD: 6.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5873	0.192	0.183	95.3
3	MC60	L2	True	0.6365	0.480	0.496	103.3
4	MC61	L3	True	0.6562	1.201	1.279	106.5
5	MC62	L4	True	0.6354	2.398	2.473	103.1
6	MC63	L5	True	0.5842	4.798	4.550	94.8
7	MC64	L6	True	0.5549	11.999	10.807	90.1
8	MC65	L7	True	0.6581	60.000	64.088	106.8

Analyte Name	PFNS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	548.8 / 98.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.13766 x (std. dev. = 0.01405) (weighting: None) RSD: 10.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1634	0.192	0.228	118.7
3	MC60	L2	True	0.1364	0.480	0.476	99.1
4	MC61	L3	True	0.1429	1.201	1.246	103.8
5	MC62	L4	True	0.1330	2.398	2.317	96.6
6	MC63	L5	True	0.1246	4.798	4.342	90.5
7	MC64	L6	True	0.1210	11.999	10.546	87.9
8	MC65	L7	True	0.1424	60.000	62.054	103.4

Analyte Name	PFDS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	599.0 / 79.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.91500 x (std. dev. = 0.08572) (weighting: None) RSD: 9.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.8823	0.193	0.186	96.4
3	MC60	L2	True	1.0272	0.482	0.541	112.3
4	MC61	L3	True	0.9889	1.206	1.303	108.1
5	MC62	L4	True	0.9919	2.408	2.610	108.4
6	MC63	L5	True	0.8113	4.818	4.272	88.7
7	MC64	L6	True	0.8394	12.049	11.054	91.7
8	MC65	L7	True	0.8639	60.250	56.889	94.4

Analyte Name	PFDS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	599.0 / 98.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.24618 x (std. dev. = 0.01953) (weighting: None) RSD: 7.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2355	0.193	0.185	95.7
3	MC60	L2	True	0.2642	0.482	0.517	107.3
4	MC61	L3	True	0.2653	1.206	1.300	107.8
5	MC62	L4	True	0.2708	2.408	2.649	110.0
6	MC63	L5	True	0.2298	4.818	4.497	93.3
7	MC64	L6	True	0.2299	12.049	11.251	93.4
8	MC65	L7	True	0.2277	60.250	55.724	92.5

Analyte Name	PFDoS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	699.1 / 79.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.88449 x (std. dev. = 0.10192) (weighting: None) RSD: 11.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9521	0.194	0.209	107.7
3	MC60	L2	True	0.9623	0.484	0.527	108.8
4	MC61	L3	True	0.9622	1.211	1.317	108.8
5	MC62	L4	True	0.9838	2.418	2.690	111.2
6	MC63	L5	True	0.8045	4.838	4.400	91.0
7	MC64	L6	True	0.7648	12.099	10.461	86.5
8	MC65	L7	True	0.7618	60.500	52.105	86.1

Analyte Name	PFDoS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	699.1 / 98.9	**Result Table**	24-0204
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26461 x (std. dev. = 0.02713) (weighting: None) RSD: 10.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2735	0.194	0.201	103.4
3	MC60	L2	True	0.2787	0.484	0.510	105.3
4	MC61	L3	True	0.2762	1.211	1.264	104.4
5	MC62	L4	True	0.3080	2.418	2.814	116.4
6	MC63	L5	True	0.2465	4.838	4.506	93.1
7	MC64	L6	True	0.2353	12.099	10.761	88.9
8	MC65	L7	True	0.2340	60.500	53.511	88.5

Analyte Name	4:2FTS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	327.1 / 307.0	**Result Table**	24-0204
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.36658 x (std. dev. = 0.02007) (weighting: None) RSD: 5.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.3501	0.750	0.716	95.5
3	MC60	L2	True	0.3957	1.873	2.022	108.0
4	MC61	L3	True	0.3820	4.689	4.886	104.2
5	MC62	L4	True	0.3464	9.363	8.847	94.5
6	MC63	L5	True	0.3719	18.731	19.005	101.5
7	MC64	L6	True	0.3764	46.847	48.096	102.7
8	MC65	L7	True	0.3436	234.250	219.549	93.7

Analyte Name	4:2FTS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	327.1 / 80.9	**Result Table**	24-0204
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.07811 x (std. dev. = 0.06382) (weighting: None) RSD: 5.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.0492	0.750	0.730	97.3
3	MC60	L2	True	1.1276	1.873	1.959	104.6
4	MC61	L3	True	1.1266	4.689	4.900	104.5
5	MC62	L4	True	1.0397	9.363	9.030	96.4
6	MC63	L5	True	1.1281	18.731	19.599	104.6
7	MC64	L6	True	1.1139	46.847	48.404	103.3
8	MC65	L7	True	0.9617	234.250	208.962	89.2

Analyte Name	6:2FTS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	427.1 / 407.0	**Result Table**	24-0204
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.93417 x (std. dev. = 0.23601) (weighting: None) RSD: 8.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	3.1762	0.762	0.825	108.3
3	MC60	L2	True	3.0607	1.901	1.983	104.3
4	MC61	L3	True	3.1833	4.759	5.163	108.5
5	MC62	L4	True	2.9896	9.503	9.683	101.9
6	MC63	L5	True	2.8715	19.010	18.604	97.9
7	MC64	L6	True	2.6749	47.547	43.346	91.2
8	MC65	L7	True	2.5829	237.750	209.291	88.0

Analyte Name	6:2FTS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	427.1 / 80.9	**Result Table**	24-0204
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.10285 x (std. dev. = 0.06732) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.1354	0.762	0.784	103.0
3	MC60	L2	True	1.1755	1.901	2.026	106.6
4	MC61	L3	True	1.0911	4.759	4.708	98.9
5	MC62	L4	True	1.1864	9.503	10.223	107.6
6	MC63	L5	True	1.0850	19.010	18.703	98.4
7	MC64	L6	True	1.0038	47.547	43.277	91.0
8	MC65	L7	True	1.0427	237.750	224.792	94.6

Analyte Name	8:2FTS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	527.1 / 507.0	**Result Table**	24-0204
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 11.88203 x (std. dev. = 1.49973) (weighting: None) RSD: 12.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	13.7344	0.769	0.889	115.6
3	MC60	L2	True	10.3810	1.919	1.677	87.4
4	MC61	L3	True	12.8368	4.804	5.190	108.0
5	MC62	L4	True	12.6078	9.593	10.179	106.1
6	MC63	L5	True	12.8203	19.190	20.705	107.9
7	MC64	L6	True	11.1324	47.997	44.969	93.7
8	MC65	L7	True	9.6616	240.000	195.150	81.3

Analyte Name	8:2FTS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	527.1 / 80.8	**Result Table**	24-0204
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.28446 x (std. dev. = 0.41223) (weighting: None) RSD: 32.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	2.1037	0.769	1.259	163.8
3	MC60	L2	True	0.9572	1.919	1.430	74.5
4	MC61	L3	True	1.3686	4.804	5.119	106.6
5	MC62	L4	True	1.2676	9.593	9.467	98.7
6	MC63	L5	True	1.3848	19.190	20.688	107.8
7	MC64	L6	True	1.0121	47.997	37.821	78.8
8	MC65	L7	True	0.8974	240.000	167.672	69.9

Analyte Name	PFOSA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	498.1 / 77.9	**Result Table**	24-0204
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.22375 x (std. dev. = 0.05614) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.3159	0.201	0.216	107.5
3	MC60	L2	True	1.2672	0.502	0.520	103.6
4	MC61	L3	True	1.2189	1.256	1.251	99.6
5	MC62	L4	True	1.1836	2.508	2.426	96.7
6	MC63	L5	True	1.1506	5.017	4.717	94.0
7	MC64	L6	True	1.1887	12.549	12.189	97.1
8	MC65	L7	True	1.2415	62.750	63.660	101.5

Analyte Name	PFOSA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	498.1 / 478.0	**Result Table**	24-0204
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00666 x (std. dev. = 0.00119) (weighting: None) RSD: 17.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0064	0.201	0.192	95.5
3	MC60	L2	True	0.0060	0.502	0.451	89.9
4	MC61	L3	True	0.0059	1.256	1.108	88.2
5	MC62	L4	True	0.0052	2.508	1.964	78.3
6	MC63	L5	True	0.0088	5.017	6.654	132.6
7	MC64	L6	True	0.0071	12.549	13.375	106.6
8	MC65	L7	True	0.0073	62.750	68.317	108.9

Analyte Name	NMeFOSA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	511.9 / 219.0	**Result Table**	24-0204
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25591 x (std. dev. = 0.01373) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2705	0.200	0.211	105.7
3	MC60	L2	True	0.2500	0.500	0.488	97.7
4	MC61	L3	True	0.2691	1.252	1.317	105.2
5	MC62	L4	True	0.2691	2.499	2.628	105.2
6	MC63	L5	True	0.2372	5.000	4.635	92.7
7	MC64	L6	True	0.2426	12.504	11.852	94.8
8	MC65	L7	True	0.2529	62.525	61.791	98.8

Analyte Name	NMeFOSA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	511.9 / 169.0	**Result Table**	24-0204
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23950 x (std. dev. = 0.01865) (weighting: None) RSD: 7.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2708	0.200	0.226	113.1
3	MC60	L2	True	0.2337	0.500	0.488	97.6
4	MC61	L3	True	0.2455	1.252	1.283	102.5
5	MC62	L4	True	0.2492	2.499	2.600	104.0
6	MC63	L5	True	0.2122	5.000	4.429	88.6
7	MC64	L6	True	0.2254	12.504	11.770	94.1
8	MC65	L7	True	0.2397	62.525	62.582	100.1

Analyte Name	NEtFOSA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	526.0 / 219.0	**Result Table**	24-0204
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.24565 x (std. dev. = 0.01649) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2772	0.201	0.227	112.9
3	MC60	L2	True	0.2454	0.501	0.500	99.9
4	MC61	L3	True	0.2559	1.254	1.306	104.2
5	MC62	L4	True	0.2368	2.503	2.413	96.4
6	MC63	L5	True	0.2286	5.007	4.658	93.0
7	MC64	L6	True	0.2336	12.524	11.907	95.1
8	MC65	L7	True	0.2422	62.625	61.737	98.6

Analyte Name	NEtFOSA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	526.0 / 169.0	**Result Table**	24-0204
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22613 x (std. dev. = 0.01935) (weighting: None) RSD: 8.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2659	0.201	0.236	117.6
3	MC60	L2	True	0.2323	0.501	0.515	102.7
4	MC61	L3	True	0.2152	1.254	1.194	95.2
5	MC62	L4	True	0.2144	2.503	2.374	94.8
6	MC63	L5	True	0.2096	5.007	4.642	92.7
7	MC64	L6	True	0.2166	12.524	11.996	95.8
8	MC65	L7	True	0.2288	62.625	63.369	101.2

Analyte Name	NMeFOSAA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	570.1 / 419.0	**Result Table**	24-0204
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.86879 x (std. dev. = 0.03975) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9049	0.200	0.208	104.2
3	MC60	L2	True	0.8434	0.500	0.485	97.1
4	MC61	L3	True	0.8362	1.251	1.204	96.3
5	MC62	L4	True	0.9107	2.498	2.619	104.8
6	MC63	L5	True	0.8132	4.998	4.678	93.6
7	MC64	L6	True	0.8643	12.499	12.435	99.5
8	MC65	L7	True	0.9088	62.500	65.378	104.6

Analyte Name	NMeFOSAA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	570.1 / 483.0	**Result Table**	24-0204
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.07802 x (std. dev. = 0.01469) (weighting: None) RSD: 18.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0495	0.200	0.127	63.5
3	MC60	L2	True	0.0881	0.500	0.564	112.9
4	MC61	L3	True	0.0691	1.251	1.108	88.6
5	MC62	L4	True	0.0856	2.498	2.742	109.8
6	MC63	L5	True	0.0763	4.998	4.889	97.8
7	MC64	L6	True	0.0911	12.499	14.591	116.7
8	MC65	L7	True	0.0864	62.500	69.236	110.8

Analyte Name	NEtFOSAA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	584.2 / 419.1	**Result Table**	24-0204
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.95049 x (std. dev. = 0.06425) (weighting: None) RSD: 6.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9249	0.200	0.195	97.3
3	MC60	L2	True	1.0319	0.500	0.543	108.6
4	MC61	L3	True	0.8466	1.253	1.116	89.1
5	MC62	L4	True	0.9782	2.501	2.574	102.9
6	MC63	L5	True	0.9365	5.003	4.929	98.5
7	MC64	L6	True	0.9171	12.514	12.074	96.5
8	MC65	L7	True	1.0184	62.575	67.047	107.2

Analyte Name	NEtFOSAA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	584.2 / 526.0	**Result Table**	24-0204
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.43907 x (std. dev. = 0.07355) (weighting: None) RSD: 5.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.5295	0.200	0.213	106.3
3	MC60	L2	True	1.4092	0.500	0.490	97.9
4	MC61	L3	True	1.4039	1.253	1.222	97.6
5	MC62	L4	True	1.5124	2.501	2.628	105.1
6	MC63	L5	True	1.3328	5.003	4.633	92.6
7	MC64	L6	True	1.3907	12.514	12.093	96.6
8	MC65	L7	True	1.4950	62.575	65.009	103.9

Analyte Name	NMeFOSE	**Data File**	AG_03202024_1633.wiff
MRM Transition	616.1 / 58.9	**Result Table**	24-0204
Internal Standard	D7-MeFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84520 x (std. dev. = 0.02335) (weighting: None) RSD: 2.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.8460	2.004	2.006	100.1
3	MC60	L2	True	0.8302	5.002	4.913	98.2
4	MC61	L3	True	0.8596	12.525	12.738	101.7
5	MC62	L4	True	0.8341	25.012	24.683	98.7
6	MC63	L5	True	0.8407	50.035	49.766	99.5
7	MC64	L6	True	0.8171	125.141	120.979	96.7
8	MC65	L7	True	0.8889	625.750	658.070	105.2

Analyte Name	NEtFOSE	**Data File**	AG_03202024_1633.wiff
MRM Transition	630.0 / 58.9	**Result Table**	24-0204
Internal Standard	D9-EtFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.74281 x (std. dev. = 0.02362) (weighting: None) RSD: 3.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.7737	2.008	2.092	104.2
3	MC60	L2	True	0.7309	5.012	4.931	98.4
4	MC61	L3	True	0.7588	12.550	12.821	102.2
5	MC62	L4	True	0.7483	25.062	25.247	100.7
6	MC63	L5	True	0.7149	50.135	48.253	96.3
7	MC64	L6	True	0.7130	125.391	120.363	96.0
8	MC65	L7	True	0.7600	627.000	641.517	102.3

Analyte Name	HFPO-DA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	284.9 / 168.9	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.18636 x (std. dev. = 0.04348) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.2117	0.801	0.818	102.1
3	MC60	L2	True	1.2280	1.999	2.069	103.5
4	MC61	L3	True	1.2064	5.004	5.088	101.7
5	MC62	L4	True	1.1109	9.993	9.357	93.6
6	MC63	L5	True	1.1398	19.990	19.205	96.1
7	MC64	L6	True	1.1977	49.997	50.476	101.0
8	MC65	L7	True	1.2101	250.000	255.011	102.0

Analyte Name	HFPO-DA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	284.9 / 184.9	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19365 x (std. dev. = 0.01259) (weighting: None) RSD: 6.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2191	0.801	0.906	113.1
3	MC60	L2	True	0.1878	1.999	1.939	97.0
4	MC61	L3	True	0.1920	5.004	4.962	99.2
5	MC62	L4	True	0.1986	9.993	10.249	102.6
6	MC63	L5	True	0.1918	19.990	19.803	99.1
7	MC64	L6	True	0.1803	49.997	46.543	93.1
8	MC65	L7	True	0.1859	250.000	239.965	96.0

Analyte Name	ADONA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	376.9 / 250.9	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 8.23345 x (std. dev. = 0.75112) (weighting: None) RSD: 9.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	8.6152	0.757	0.792	104.6
3	MC60	L2	True	8.9752	1.889	2.059	109.0
4	MC61	L3	True	9.1197	4.729	5.238	110.8
5	MC62	L4	True	8.2500	9.443	9.462	100.2
6	MC63	L5	True	7.5959	18.891	17.428	92.3
7	MC64	L6	True	8.0552	47.247	46.224	97.8
8	MC65	L7	True	7.0230	236.250	201.516	85.3

Analyte Name	ADONA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	376.9 / 84.8	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10215 x (std. dev. = 0.01595) (weighting: None) RSD: 15.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0788	0.757	0.584	77.1
3	MC60	L2	True	0.1252	1.889	2.315	122.5
4	MC61	L3	True	0.1202	4.729	5.563	117.6
5	MC62	L4	True	0.0942	9.443	8.705	92.2
6	MC63	L5	True	0.1006	18.891	18.605	98.5
7	MC64	L6	True	0.1017	47.247	47.059	99.6
8	MC65	L7	True	0.0944	236.250	218.401	92.5

Analyte Name	9Cl-PF3ONS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	530.8 / 351.0	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.43058 x (std. dev. = 0.62658) (weighting: None) RSD: 11.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	5.0714	0.747	0.698	93.4
3	MC60	L2	True	5.5680	1.865	1.912	102.5
4	MC61	L3	True	5.0630	4.669	4.353	93.2
5	MC62	L4	True	5.1990	9.323	8.925	95.7
6	MC63	L5	True	4.6944	18.651	16.123	86.4
7	MC64	L6	True	5.8454	46.647	50.210	107.6
8	MC65	L7	True	6.5729	233.250	282.314	121.0

Analyte Name	9Cl-PF3ONS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	532.8 / 353.0	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.78661 x (std. dev. = 0.24028) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.6015	0.747	0.670	89.6
3	MC60	L2	True	1.7682	1.865	1.846	99.0
4	MC61	L3	True	1.6431	4.669	4.294	92.0
5	MC62	L4	True	1.7260	9.323	9.007	96.6
6	MC63	L5	True	1.5571	18.651	16.255	87.2
7	MC64	L6	True	1.9791	46.647	51.673	110.8
8	MC65	L7	True	2.2313	233.250	291.313	124.9

Analyte Name	11Cl-PF3OUdS_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	630.9 / 450.9	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.06572 x (std. dev. = 0.40435) (weighting: None) RSD: 8.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	5.3626	0.755	0.799	105.9
3	MC60	L2	True	5.6052	1.885	2.086	110.7
4	MC61	L3	True	5.4087	4.719	5.038	106.8
5	MC62	L4	True	4.9129	9.423	9.139	97.0
6	MC63	L5	True	4.4544	18.851	16.576	87.9
7	MC64	L6	True	4.8804	47.147	45.422	96.3
8	MC65	L7	True	4.8359	235.750	225.057	95.5

Analyte Name	11Cl-PF3OUdS_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	632.9 / 452.9	**Result Table**	24-0204
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.70996 x (std. dev. = 0.11622) (weighting: None) RSD: 6.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.7179	0.755	0.759	100.5
3	MC60	L2	True	1.8686	1.885	2.060	109.3
4	MC61	L3	True	1.8714	4.719	5.164	109.4
5	MC62	L4	True	1.6117	9.423	8.881	94.3
6	MC63	L5	True	1.5928	18.851	17.559	93.2
7	MC64	L6	True	1.6500	47.147	45.495	96.5
8	MC65	L7	True	1.6573	235.750	228.492	96.9

Analyte Name	3:3 FTCA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	241.0 / 177.0	**Result Table**	24-0204
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10336 x (std. dev. = 0.00651) (weighting: None) RSD: 6.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1021	1.001	0.989	98.8
3	MC60	L2	True	0.0992	2.498	2.397	96.0
4	MC61	L3	True	0.1069	6.255	6.469	103.4
5	MC62	L4	True	0.0981	12.491	11.860	95.0
6	MC63	L5	True	0.0984	24.988	23.784	95.2
7	MC64	L6	True	0.1024	62.496	61.935	99.1
8	MC65	L7	True	0.1164	312.500	351.893	112.6

Analyte Name	3:3 FTCA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	241.0 / 117.0	**Result Table**	24-0204
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00489 x (std. dev. = 4.88687e-4) (weighting: None) RSD: 10.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0042	1.001	0.853	85.2
3	MC60	L2	True	0.0047	2.498	2.387	95.6
4	MC61	L3	True	0.0051	6.255	6.509	104.1
5	MC62	L4	True	0.0050	12.491	12.859	103.0
6	MC63	L5	True	0.0046	24.988	23.593	94.4
7	MC64	L6	True	0.0049	62.496	62.718	100.4
8	MC65	L7	True	0.0057	312.500	367.010	117.4

Analyte Name	5:3 FTCA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	341.0 / 237.1	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21299 x (std. dev. = 0.00833) (weighting: None) RSD: 3.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2240	5.005	5.263	105.2
3	MC60	L2	True	0.2074	12.491	12.162	97.4
4	MC61	L3	True	0.2095	31.275	30.763	98.4
5	MC62	L4	True	0.1989	62.455	58.331	93.4
6	MC63	L5	True	0.2184	124.938	128.091	102.5
7	MC64	L6	True	0.2154	312.478	316.074	101.2
8	MC65	L7	True	0.2173	1562.500	1594.397	102.0

Analyte Name	5:3 FTCA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	341.0 / 217.0	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09317 x (std. dev. = 0.00362) (weighting: None) RSD: 3.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1000	5.005	5.370	107.3
3	MC60	L2	True	0.0931	12.491	12.483	99.9
4	MC61	L3	True	0.0945	31.275	31.735	101.5
5	MC62	L4	True	0.0882	62.455	59.095	94.6
6	MC63	L5	True	0.0923	124.938	123.723	99.0
7	MC64	L6	True	0.0931	312.478	312.318	100.0
8	MC65	L7	True	0.0910	1562.500	1526.446	97.7

Analyte Name	7:3 FTCA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	441.0 / 316.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.11658 x (std. dev. = 0.00804) (weighting: None) RSD: 6.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1255	5.005	5.388	107.7
3	MC60	L2	True	0.1178	12.491	12.625	101.1
4	MC61	L3	True	0.1160	31.275	31.130	99.5
5	MC62	L4	True	0.1071	62.455	57.371	91.9
6	MC63	L5	True	0.1090	124.938	116.818	93.5
7	MC64	L6	True	0.1122	312.478	300.702	96.2
8	MC65	L7	True	0.1284	1562.500	1721.063	110.2

Analyte Name	7:3 FTCA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	441.0 / 336.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22489 x (std. dev. = 0.01635) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2326	5.005	5.177	103.4
3	MC60	L2	True	0.2178	12.491	12.098	96.9
4	MC61	L3	True	0.2159	31.275	30.025	96.0
5	MC62	L4	True	0.2054	62.455	57.042	91.3
6	MC63	L5	True	0.2214	124.938	123.020	98.5
7	MC64	L6	True	0.2242	312.478	311.526	99.7
8	MC65	L7	True	0.2569	1562.500	1784.605	114.2

Analyte Name	NFDHA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	295.0 / 201.1	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09791 x (std. dev. = 0.00596) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1021	0.400	0.417	104.3
3	MC60	L2	True	0.1055	0.999	1.076	107.7
4	MC61	L3	True	0.1033	2.502	2.639	105.5
5	MC62	L4	True	0.0895	4.996	4.568	91.4
6	MC63	L5	True	0.0953	9.995	9.731	97.4
7	MC64	L6	True	0.0974	24.998	24.868	99.5
8	MC65	L7	True	0.0923	125.000	117.809	94.3

Analyte Name	NFDHA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	295.0 / 84.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.07103 x (std. dev. = 0.00633) (weighting: None) RSD: 8.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.0846	0.400	0.477	119.2
3	MC60	L2	True	0.0714	0.999	1.005	100.6
4	MC61	L3	True	0.0680	2.502	2.396	95.8
5	MC62	L4	True	0.0683	4.996	4.804	96.2
6	MC63	L5	True	0.0701	9.995	9.868	98.7
7	MC64	L6	True	0.0696	24.998	24.499	98.0
8	MC65	L7	True	0.0651	125.000	114.504	91.6

Analyte Name	PFEESA_1	**Data File**	AG_03202024_1633.wiff
MRM Transition	314.8 / 134.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.57417 x (std. dev. = 0.41830) (weighting: None) RSD: 11.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	4.2666	0.357	0.426	119.4
3	MC60	L2	True	3.6270	0.891	0.904	101.5
4	MC61	L3	True	3.7632	2.232	2.350	105.3
5	MC62	L4	True	3.5516	4.457	4.429	99.4
6	MC63	L5	True	3.3962	8.916	8.472	95.0
7	MC64	L6	True	3.5469	22.298	22.128	99.2
8	MC65	L7	True	2.8678	111.500	89.464	80.2

Analyte Name	PFEESA_2	**Data File**	AG_03202024_1633.wiff
MRM Transition	314.8 / 82.9	**Result Table**	24-0204
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16775 x (std. dev. = 0.02082) (weighting: None) RSD: 12.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1996	0.357	0.425	119.0
3	MC60	L2	True	0.1747	0.891	0.928	104.1
4	MC61	L3	True	0.1779	2.232	2.367	106.0
5	MC62	L4	True	0.1728	4.457	4.592	103.0
6	MC63	L5	True	0.1574	8.916	8.365	93.8
7	MC64	L6	True	0.1591	22.298	21.152	94.9
8	MC65	L7	True	0.1327	111.500	88.219	79.1

Analyte Name	PFMPA	**Data File**	AG_03202024_1633.wiff
MRM Transition	229.0 / 84.9	**Result Table**	24-0204
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.18103 x (std. dev. = 0.04284) (weighting: None) RSD: 3.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.2026	0.400	0.407	101.8
3	MC60	L2	True	1.2496	0.999	1.057	105.8
4	MC61	L3	True	1.1538	2.502	2.444	97.7
5	MC62	L4	True	1.1409	4.996	4.826	96.6
6	MC63	L5	True	1.1500	9.995	9.733	97.4
7	MC64	L6	True	1.1498	24.998	24.337	97.4
8	MC65	L7	True	1.2205	125.000	129.174	103.3

Analyte Name	PFMBA	**Data File**	AG_03202024_1633.wiff
MRM Transition	279.0 / 85.1	**Result Table**	24-0204
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.28013 x (std. dev. = 0.04694) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.2410	0.400	0.388	97.0
3	MC60	L2	True	1.3617	0.999	1.063	106.4
4	MC61	L3	True	1.2918	2.502	2.525	100.9
5	MC62	L4	True	1.3039	4.996	5.089	101.9
6	MC63	L5	True	1.2573	9.995	9.817	98.2
7	MC64	L6	True	1.2187	24.998	23.799	95.2
8	MC65	L7	True	1.2865	125.000	125.619	100.5

Analyte Name	TDCA	**Data File**	AG_03202024_1633.wiff
MRM Transition	499.0 / 107.0	**Result Table**	24-0204
Internal Standard	N/A	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: Not enough data points. RSD: Div0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	N/A	0.000	N/A	N/A
3	MC60	L2	True	N/A	0.000	N/A	N/A
4	MC61	L3	True	N/A	0.000	N/A	N/A
5	MC62	L4	True	N/A	0.000	N/A	N/A
6	MC63	L5	True	N/A	0.000	N/A	N/A
7	MC64	L6	True	N/A	0.000	N/A	N/A
8	MC65	L7	True	N/A	0.000	N/A	N/A

Analyte Name	13C4-PFBA	**Data File**	AG_03202024_1633.wiff
MRM Transition	216.8 / 171.9	**Result Table**	24-0204_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.87287 x (std. dev. = 0.01462) (weighting: None) RSD: 1.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.8570	10.010	9.828	98.2
3	MC60	L2	True	0.8922	9.993	10.214	102.2
4	MC61	L3	True	0.8643	10.008	9.910	99.0
5	MC62	L4	True	0.8731	9.993	9.995	100.0
6	MC63	L5	True	0.8771	9.995	10.043	100.5
7	MC64	L6	True	0.8901	9.999	10.196	102.0
8	MC65	L7	True	0.8564	10.000	9.812	98.1

Analyte Name	13C5-PFPeA	**Data File**	AG_03202024_1633.wiff
MRM Transition	268.3 / 223.0	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.66583 x (std. dev. = 0.05708) (weighting: None) RSD: 8.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.6881	5.005	5.173	103.4
3	MC60	L2	True	0.6681	4.997	5.014	100.3
4	MC61	L3	True	0.6343	5.004	4.767	95.3
5	MC62	L4	True	0.7433	4.996	5.577	111.6
6	MC63	L5	True	0.6730	4.998	5.052	101.1
7	MC64	L6	True	0.6940	5.000	5.211	104.2
8	MC65	L7	True	0.5599	5.000	4.205	84.1

Analyte Name	13C5-PFHxA	**Data File**	AG_03202024_1633.wiff
MRM Transition	318.0 / 273.0	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.36125 x (std. dev. = 0.12611) (weighting: None) RSD: 9.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.3268	2.503	2.440	97.5
3	MC60	L2	True	1.4097	2.498	2.587	103.6
4	MC61	L3	True	1.3624	2.502	2.504	100.1
5	MC62	L4	True	1.5843	2.498	2.907	116.4
6	MC63	L5	True	1.3174	2.499	2.418	96.8
7	MC64	L6	True	1.3674	2.500	2.511	100.5
8	MC65	L7	True	1.1608	2.500	2.132	85.3

Analyte Name	13C4-PFHpA	**Data File**	AG_03202024_1633.wiff
MRM Transition	367.1 / 322.0	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.54067 x (std. dev. = 0.30974) (weighting: None) RSD: 12.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	2.6258	2.503	2.587	103.4
3	MC60	L2	True	2.6239	2.498	2.580	103.3
4	MC61	L3	True	2.4785	2.502	2.441	97.6
5	MC62	L4	True	2.7987	2.498	2.752	110.2
6	MC63	L5	True	2.5966	2.499	2.554	102.2
7	MC64	L6	True	2.7776	2.500	2.733	109.3
8	MC65	L7	True	1.8836	2.500	1.853	74.1

Analyte Name	13C8-PFOA	**Data File**	AG_03202024_1633.wiff
MRM Transition	421.1 / 376.0	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.28809 x (std. dev. = 0.05347) (weighting: None) RSD: 4.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.2560	2.503	2.441	97.5
3	MC60	L2	True	1.3954	2.498	2.706	108.3
4	MC61	L3	True	1.2787	2.502	2.484	99.3
5	MC62	L4	True	1.2926	2.498	2.507	100.4
6	MC63	L5	True	1.2934	2.499	2.509	100.4
7	MC64	L6	True	1.2787	2.500	2.482	99.3
8	MC65	L7	True	1.2219	2.500	2.371	94.9

Analyte Name	13C9-PFNA	**Data File**	AG_03202024_1633.wiff
MRM Transition	472.1 / 427.0	**Result Table**	24-0204_SIS
Internal Standard	13C5-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.94951 x (std. dev. = 0.04036) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.0157	1.251	1.338	107.0
3	MC60	L2	True	0.9609	1.249	1.264	101.2
4	MC61	L3	True	0.9122	1.251	1.202	96.1
5	MC62	L4	True	0.9744	1.249	1.282	102.6
6	MC63	L5	True	0.8932	1.249	1.175	94.1
7	MC64	L6	True	0.9500	1.250	1.251	100.1
8	MC65	L7	True	0.9403	1.250	1.238	99.0

Analyte Name	13C6-PFDA	**Data File**	AG_03202024_1633.wiff
MRM Transition	519.1 / 474.1	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.26731 x (std. dev. = 0.07924) (weighting: None) RSD: 6.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.3195	1.251	1.303	104.1
3	MC60	L2	True	1.1462	1.249	1.130	90.4
4	MC61	L3	True	1.3031	1.251	1.286	102.8
5	MC62	L4	True	1.2245	1.249	1.207	96.6
6	MC63	L5	True	1.3935	1.249	1.373	110.0
7	MC64	L6	True	1.2428	1.250	1.226	98.1
8	MC65	L7	True	1.2417	1.250	1.225	98.0

Analyte Name	13C7-PFUnA	**Data File**	AG_03202024_1633.wiff
MRM Transition	570.0 / 525.1	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.47859 x (std. dev. = 0.02843) (weighting: None) RSD: 5.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.4699	1.251	1.228	98.2
3	MC60	L2	True	0.4303	1.249	1.123	89.9
4	MC61	L3	True	0.4727	1.251	1.236	98.8
5	MC62	L4	True	0.4719	1.249	1.231	98.6
6	MC63	L5	True	0.5220	1.249	1.362	109.1
7	MC64	L6	True	0.5000	1.250	1.306	104.5
8	MC65	L7	True	0.4833	1.250	1.262	101.0

Analyte Name	13C2-PFDoA	**Data File**	AG_03202024_1633.wiff
MRM Transition	615.1 / 570.0	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.98589 x (std. dev. = 0.11270) (weighting: None) RSD: 11.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9669	1.251	1.227	98.1
3	MC60	L2	True	0.9123	1.249	1.156	92.5
4	MC61	L3	True	1.0462	1.251	1.327	106.1
5	MC62	L4	True	0.9904	1.249	1.255	100.5
6	MC63	L5	True	1.1758	1.249	1.490	119.3
7	MC64	L6	True	0.9986	1.250	1.266	101.3
8	MC65	L7	True	0.8111	1.250	1.028	82.3

Analyte Name	13C2-PFTeDA	**Data File**	AG_03202024_1633.wiff
MRM Transition	715.2 / 670.0	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.51544 x (std. dev. = 0.02944) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5222	1.251	1.267	101.3
3	MC60	L2	True	0.4741	1.249	1.149	92.0
4	MC61	L3	True	0.5349	1.251	1.298	103.8
5	MC62	L4	True	0.5229	1.249	1.267	101.5
6	MC63	L5	True	0.5623	1.249	1.362	109.1
7	MC64	L6	True	0.5007	1.250	1.214	97.1
8	MC65	L7	True	0.4909	1.250	1.190	95.2

Analyte Name	13C3-PFBS	**Data File**	AG_03202024_1633.wiff
MRM Transition	302.1 / 79.9	**Result Table**	24-0204_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.89390 x (std. dev. = 0.21639) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	4.1261	2.332	2.471	106.0
3	MC60	L2	True	3.6646	2.328	2.191	94.1
4	MC61	L3	True	3.9571	2.332	2.370	101.6
5	MC62	L4	True	3.8526	2.328	2.303	98.9
6	MC63	L5	True	4.0711	2.329	2.435	104.6
7	MC64	L6	True	4.0347	2.330	2.414	103.6
8	MC65	L7	True	3.5512	2.330	2.125	91.2

Analyte Name	13C3-PFHxS	**Data File**	AG_03202024_1633.wiff
MRM Transition	402.1 / 79.9	**Result Table**	24-0204_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 4.74766 x (std. dev. = 0.25978) (weighting: None) RSD: 5.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	4.7322	2.372	2.364	99.7
3	MC60	L2	True	4.5857	2.368	2.287	96.6
4	MC61	L3	True	4.5915	2.372	2.294	96.7
5	MC62	L4	True	4.6149	2.368	2.302	97.2
6	MC63	L5	True	4.9321	2.369	2.461	103.9
7	MC64	L6	True	5.2510	2.370	2.621	110.6
8	MC65	L7	True	4.5262	2.370	2.259	95.3

Analyte Name	13C8-PFOS	**Data File**	AG_03202024_1633.wiff
MRM Transition	507.1 / 79.9	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.11380 x (std. dev. = 0.07328) (weighting: None) RSD: 6.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	1.1685	2.397	2.515	104.9
3	MC60	L2	True	1.1274	2.393	2.422	101.2
4	MC61	L3	True	1.0798	2.397	2.324	97.0
5	MC62	L4	True	1.0808	2.393	2.322	97.0
6	MC63	L5	True	1.0605	2.394	2.280	95.2
7	MC64	L6	True	1.2461	2.395	2.679	111.9
8	MC65	L7	True	1.0334	2.395	2.222	92.8

Analyte Name	13C2-4:2FTS	**Data File**	AG_03202024_1633.wiff
MRM Transition	329.1 / 80.9	**Result Table**	24-0204_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.81099 x (std. dev. = 0.13783) (weighting: None) RSD: 17.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.9339	4.695	5.407	115.2
3	MC60	L2	True	0.8730	4.687	5.046	107.7
4	MC61	L3	True	0.9089	4.694	5.261	112.1
5	MC62	L4	True	0.9362	4.687	5.411	115.4
6	MC63	L5	True	0.7266	4.688	4.200	89.6
7	MC64	L6	True	0.7207	4.690	4.168	88.9
8	MC65	L7	True	0.5776	4.690	3.340	71.2

Analyte Name	13C2-6:2FTS	**Data File**	AG_03202024_1633.wiff
MRM Transition	429.1 / 80.9	**Result Table**	24-0204_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.62469 x (std. dev. = 0.06525) (weighting: None) RSD: 10.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.6788	4.760	5.172	108.7
3	MC60	L2	True	0.6280	4.752	4.777	100.5
4	MC61	L3	True	0.6581	4.759	5.013	105.3
5	MC62	L4	True	0.6109	4.752	4.647	97.8
6	MC63	L5	True	0.6449	4.753	4.906	103.2
7	MC64	L6	True	0.6660	4.755	5.070	106.6
8	MC65	L7	True	0.4862	4.755	3.701	77.8

Analyte Name	13C2-8:2FTS	**Data File**	AG_03202024_1633.wiff
MRM Transition	529.1 / 80.9	**Result Table**	24-0204_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.15221 x (std. dev. = 0.00906) (weighting: None) RSD: 5.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1530	4.805	4.831	100.5
3	MC60	L2	True	0.1542	4.797	4.861	101.3
4	MC61	L3	True	0.1535	4.804	4.844	100.8
5	MC62	L4	True	0.1558	4.797	4.911	102.4
6	MC63	L5	True	0.1336	4.798	4.211	87.8
7	MC64	L6	True	0.1634	4.800	5.154	107.4
8	MC65	L7	True	0.1519	4.800	4.790	99.8

Analyte Name	13C8-PFOSA	**Data File**	AG_03202024_1633.wiff
MRM Transition	506.1 / 77.8	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.76479 x (std. dev. = 0.04875) (weighting: None) RSD: 6.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.7996	2.503	2.617	104.6
3	MC60	L2	True	0.7868	2.498	2.570	102.9
4	MC61	L3	True	0.7666	2.502	2.508	100.2
5	MC62	L4	True	0.7913	2.498	2.585	103.5
6	MC63	L5	True	0.7204	2.499	2.354	94.2
7	MC64	L6	True	0.8118	2.500	2.654	106.2
8	MC65	L7	True	0.6772	2.500	2.214	88.5

Analyte Name	D3-MeFOSA	**Data File**	AG_03202024_1633.wiff
MRM Transition	515.0 / 219.0	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25584 x (std. dev. = 0.01503) (weighting: None) RSD: 5.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2615	2.503	2.558	102.2
3	MC60	L2	True	0.2687	2.498	2.623	105.0
4	MC61	L3	True	0.2540	2.502	2.483	99.3
5	MC62	L4	True	0.2540	2.498	2.480	99.3
6	MC63	L5	True	0.2527	2.499	2.469	98.8
7	MC64	L6	True	0.2733	2.500	2.670	106.8
8	MC65	L7	True	0.2269	2.500	2.217	88.7

Analyte Name	D5-EtFOSA	**Data File**	AG_03202024_1633.wiff
MRM Transition	531.1 / 219.0	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29849 x (std. dev. = 0.01684) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.3055	2.503	2.562	102.4
3	MC60	L2	True	0.3148	2.498	2.635	105.5
4	MC61	L3	True	0.2960	2.502	2.481	99.2
5	MC62	L4	True	0.3071	2.498	2.570	102.9
6	MC63	L5	True	0.2877	2.499	2.408	96.4
7	MC64	L6	True	0.3117	2.500	2.610	104.4
8	MC65	L7	True	0.2666	2.500	2.233	89.3

Analyte Name	d3-MeFOSAA	**Data File**	AG_03202024_1633.wiff
MRM Transition	573.2 / 419.0	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21502 x (std. dev. = 0.02136) (weighting: None) RSD: 9.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2368	5.005	5.512	110.1
3	MC60	L2	True	0.2277	4.997	5.292	105.9
4	MC61	L3	True	0.2254	5.004	5.246	104.8
5	MC62	L4	True	0.2242	4.996	5.210	104.3
6	MC63	L5	True	0.2023	4.998	4.703	94.1
7	MC64	L6	True	0.2155	5.000	5.011	100.2
8	MC65	L7	True	0.1732	5.000	4.027	80.6

Analyte Name	d5-EtFOSAA	**Data File**	AG_03202024_1633.wiff
MRM Transition	589.2 / 419.0	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16161 x (std. dev. = 0.01657) (weighting: None) RSD: 10.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.1693	5.005	5.242	104.7
3	MC60	L2	True	0.1822	4.997	5.633	112.7
4	MC61	L3	True	0.1680	5.004	5.203	104.0
5	MC62	L4	True	0.1668	4.996	5.156	103.2
6	MC63	L5	True	0.1575	4.998	4.869	97.4
7	MC64	L6	True	0.1587	5.000	4.910	98.2
8	MC65	L7	True	0.1289	5.000	3.987	79.8

Analyte Name	D7-MeFOSE	**Data File**	AG_03202024_1633.wiff
MRM Transition	623.2 / 58.9	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22525 x (std. dev. = 0.01848) (weighting: None) RSD: 8.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2335	25.025	25.945	103.7
3	MC60	L2	True	0.2448	24.983	27.155	108.7
4	MC61	L3	True	0.2237	25.020	24.849	99.3
5	MC62	L4	True	0.2361	24.982	26.184	104.8
6	MC63	L5	True	0.2117	24.988	23.484	94.0
7	MC64	L6	True	0.2360	24.998	26.187	104.8
8	MC65	L7	True	0.1909	25.000	21.191	84.8

Analyte Name	D9-EtFOSE	**Data File**	AG_03202024_1633.wiff
MRM Transition	639.2 / 58.9	**Result Table**	24-0204_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25177 x (std. dev. = 0.01917) (weighting: None) RSD: 7.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.2624	25.025	26.079	104.2
3	MC60	L2	True	0.2712	24.983	26.912	107.7
4	MC61	L3	True	0.2473	25.020	24.574	98.2
5	MC62	L4	True	0.2602	24.982	25.818	103.4
6	MC63	L5	True	0.2369	24.988	23.517	94.1
7	MC64	L6	True	0.2669	24.998	26.500	106.0
8	MC65	L7	True	0.2175	25.000	21.596	86.4

Analyte Name	13C3-HFPO-DA	**Data File**	AG_03202024_1633.wiff
MRM Transition	286.9 / 168.9	**Result Table**	24-0204_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 6:49:46 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.56840 x (std. dev. = 0.04853) (weighting: None) RSD: 8.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
2	MC59	L1	True	0.5884	10.010	10.362	103.5
3	MC60	L2	True	0.5535	9.993	9.731	97.4
4	MC61	L3	True	0.5489	10.008	9.665	96.6
5	MC62	L4	True	0.6334	9.993	11.136	111.4
6	MC63	L5	True	0.5761	9.995	10.131	101.4
7	MC64	L6	True	0.5990	9.999	10.537	105.4
8	MC65	L7	True	0.4795	10.000	8.435	84.4

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		Isotope Dilution Calibration Curve Concentrations (ng/mL)							IB (ng/mL)	ICC (ng/mL)
Analyte	CAS No.	MC59	MC60	MC61	MC62	MC63	MC64	MC65	MC66	MC43
PFBA	375-22-4	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
PFPeA	2706-90-3	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.050
PFHxA	307-24-4	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFHpA	375-85-9	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFOA (branched)	335-67-1	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
PFNA (branched)	375-95-1	0.200	0.499	1.250	2.496	4.994	12.489	62.450	-	5.000
PFDA	335-76-2	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFUnA	2058-94-8	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFDoA	307-55-1	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTrDA	72629-94-8	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTeDA	376-06-7	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFBS	375-73-5	0.178	0.444	1.111	2.218	4.438	11.099	55.500	-	5.000
PFPeS	2706-91-4	0.188	0.470	1.176	2.348	4.698	11.749	58.750	-	5.000
PFHxS (branched)	355-46-4	0.183	0.456	1.141	2.279	4.560	11.404	57.025	-	5.000
PFHpS	375-92-8	0.191	0.476	1.191	2.378	4.758	11.899	59.500	-	5.000
PFOS (branched)	1763-23-1	0.186	0.464	1.161	2.318	4.638	11.599	58.000	-	5.000
PFNS	68259-12-1	0.192	0.480	1.201	2.398	4.798	11.999	60.000	-	5.050
PFDS	335-77-3	0.193	0.482	1.206	2.408	4.818	12.049	60.250	-	5.050
PFDoS	79780-39-5	0.194	0.484	1.211	2.418	4.838	12.099	60.500	-	4.850
4:2FTS	757124-72-4	0.750	1.873	4.689	9.363	18.731	46.847	234.250	-	5.000
6:2FTS	27619-97-2	0.762	1.901	4.759	9.503	19.010	47.547	237.750	-	5.000
8:2FTS	39108-34-4	0.769	1.919	4.804	9.593	19.190	47.997	240.000	-	5.050
PFOSA (branched)	754-91-6	0.201	0.502	1.256	2.508	5.017	12.549	62.750	-	5.000
NMeFOSA (branched)	31506-32-8	0.200	0.500	1.252	2.499	5.000	12.504	62.525	-	5.000
NEtFOSA (branched)	4151-50-2	0.201	0.501	1.254	2.503	5.007	12.524	62.625	-	5.000
NMeFOSAA (branched)	2355-31-9	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
NEtFOSAA (branched)	2991-50-6	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
NMeFOSE (branched)	24448-09-7	2.004	5.002	12.525	25.012	50.035	125.141	625.750	-	5.000
NEtFOSE (branched)	1691-99-2	2.008	5.012	12.550	25.062	50.135	125.391	627.000	-	5.000
HFPO-DA	13252-13-6	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
Adona	919005-14-4	0.757	1.889	4.729	9.443	18.891	47.247	236.250	-	5.000
9Cl-PF3ONS	756426-58-1	0.747	1.865	4.669	9.323	18.651	46.647	233.250	-	5.000
11Cl-PF3OUdS	763051-92-9	0.755	1.885	4.719	9.423	18.851	47.147	235.750	-	5.000
3:3 FTCA	356-02-5	1.001	2.498	6.255	12.491	24.988	62.496	312.500	-	6.250
5:3 FTCA	914637-49-3	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
7:3 FTCA	812-70-4	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
PFMPA	377-73-1	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFEESA	113507-82-7	0.357	0.891	2.232	4.457	8.916	22.298	111.500	-	4.460
NFDHA	151772-58-6	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFMBA	863090-89-5	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000

		Surrogates / Extracted Internal Standards								
13C4-PFBA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
13C5-PFPeA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C5-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFHpA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C8-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C9-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C6-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C7-PFUnA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDoA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFTeDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C3-PFBS	-	2.332	2.328	2.332	2.328	2.329	2.330	2.330	2.330	2.330
13C3-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C8-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395
13C2-4:2FTS	-	4.695	4.687	4.694	4.687	4.688	4.690	4.690	4.690	4.690
13C2-6:2FTS	-	4.760	4.752	4.759	4.752	4.753	4.755	4.755	4.755	4.755
13C2-8:2FTS	-	4.805	4.797	4.804	4.797	4.798	4.800	4.800	4.800	4.800
13C8-FOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D3-MeFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D5-EtFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
d3-MeFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
d5-EtFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
D7-MeFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	24.999	25.000
D9-EtFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	24.999	25.000
13C3-HFPO-DA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
		Internal Standards								
13C3-PFBA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C2-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C5-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
18O2-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C4-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395

Sample Name	MC43 ICC	**Injection Vial**	10
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 9:52:04 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	4.695	5.000	93.91
PFPeA	263.0 / 219.0	4.40	4.859	5.050	96.22
PFHxA_1	313.0 / 269.0	5.48	5.016	5.000	100.33
PFHxA_2	313.0 / 118.9	5.48	5.159	5.000	103.17
PFHpA_1	363.1 / 319.0	6.20	4.766	5.000	95.31
PFHpA_2	363.1 / 169.0	6.19	5.120	5.000	102.40
PFOA_1	413.0 / 369.0	6.73	5.883	5.000	117.66
PFOA_2	413.0 / 169.0	6.73	3.416	5.000	68.33
PFNA_1	463.0 / 419.0	7.18	6.058	5.000	121.16
PFNA_2	463.0 / 219.0	7.18	4.627	5.000	92.54
PFDA_1	512.9 / 469.0	7.59	5.145	5.000	102.91
PFDA_2	512.9 / 219.0	7.59	4.878	5.000	97.56
PFUnA_1	563.1 / 519.0	7.98	4.548	5.000	90.97
PFUnA_2	563.1 / 269.1	7.98	4.245	5.000	84.90
PFDoA_1	613.1 / 569.0	8.36	4.470	5.000	89.40
PFDoA_2	613.1 / 319.0	8.36	4.350	5.000	87.01
PFTrDA_1	663.0 / 619.0	8.72	4.543	5.000	90.86
PFTrDA_2	663.0 / 168.9	8.72	4.556	5.000	91.12
PFTeDA_1	713.0 / 669.0	9.06	5.183	5.000	103.66
PFTeDA_2	713.0 / 168.9	9.06	5.606	5.000	112.11
PFBS_1	298.7 / 79.9	5.36	4.750	5.000	95.00
PFBS_2	298.9 / 98.8	5.36	5.142	5.000	102.84
PFPeS_1	349.1 / 79.9	6.20	5.500	5.000	110.01
PFPeS_2	349.1 / 98.9	6.20	5.255	5.000	105.09
PFHxS_1	398.7 / 79.9	6.78	5.243	5.000	104.85
PFHxS_2	398.7 / 98.9	6.78	5.110	5.000	102.19
PFHpS_1	449.0 / 79.9	7.27	4.782	5.000	95.64
PFHpS_2	449.0 / 98.9	7.27	5.132	5.000	102.64
PFOS_1	498.9 / 79.9	7.70	4.253	5.000	85.06
PFOS_2	498.9 / 98.9	7.70	4.231	5.000	84.62
PFNS_1	548.8 / 79.9	8.10	4.687	5.050	92.81
PFNS_2	548.8 / 98.9	8.10	4.520	5.050	89.51
PFDS_1	599.0 / 79.9	8.49	5.081	5.050	100.62
PFDS_2	599.0 / 98.9	8.49	5.104	5.050	101.08
PFDoS_1	699.1 / 79.9	9.19	5.571	4.850	114.87
PFDoS_2	699.1 / 98.9	9.19	5.688	4.850	117.27
4:2FTS_1	327.1 / 307.0	5.26	4.894	5.000	97.88
4:2FTS_2	327.1 / 80.9	5.26	4.998	5.000	99.96
6:2FTS_1	427.1 / 407.0	6.55	5.449	5.000	108.98
6:2FTS_2	427.1 / 80.9	6.55	5.522	5.000	110.43
8:2FTS_1	527.1 / 507.0	7.43	6.285	5.050	124.46
8:2FTS_2	527.1 / 80.8	7.43	5.797	5.050	114.80
PFOSA_1	498.1 / 77.9	8.06	5.128	5.000	102.56
PFOSA_2	498.1 / 478.0	8.06	5.244	5.000	104.88
NMeFOSA_1	511.9 / 219.0	10.13	5.453	5.000	109.06
NMeFOSA_2	511.9 / 169.0	10.13	4.492	5.000	89.84
NEtFOSA_1	526.0 / 219.0	10.46	5.536	5.000	110.73
NEtFOSA_2	526.0 / 169.0	10.46	4.391	5.000	87.81
NMeFOSAA_1	570.1 / 419.0	7.62	5.425	5.000	108.51
NMeFOSAA_2	570.1 / 483.0	7.63	4.968	5.000	99.36
NEtFOSAA_1	584.2 / 419.1	7.77	5.239	5.000	104.78
NEtFOSAA_2	584.2 / 526.0	7.77	5.053	5.000	101.06
NMeFOSE	616.1 / 58.9	10.09	5.786	5.000	115.71
NEtFOSE	630.0 / 58.9	10.38	5.785	5.000	115.70
HFPO-DA_1	284.9 / 168.9	5.73	5.075	5.000	101.50
HFPO-DA_2	284.9 / 184.9	5.73	4.767	5.000	95.34
ADONA_1	376.9 / 250.9	6.40	5.439	5.000	108.78
ADONA_2	376.9 / 84.8	6.40	5.184	5.000	103.68
9Cl-PF3ONS_1	530.8 / 351.0	7.97	4.369	5.000	87.39
9Cl-PF3ONS_2	532.8 / 353.0	7.97	4.394	5.000	87.87
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	5.098	5.000	101.97
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	5.339	5.000	106.78

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
3:3 FTCA_1	241.0 / 177.0	3.71	7.231	6.250	115.70
3:3 FTCA_2	241.0 / 117.0	3.71	7.556	6.250	120.89
5:3 FTCA_1	341.0 / 237.1	5.79	6.915	6.250	110.64
5:3 FTCA_2	341.0 / 217.0	5.79	7.252	6.250	116.03
7:3 FTCA_1	441.0 / 316.9	6.85	7.373	6.250	117.97
7:3 FTCA_2	441.0 / 336.9	6.85	6.241	6.250	99.86
NFDHA_1	295.0 / 201.1	5.37	4.887	5.000	97.73
NFDHA_2	295.0 / 84.9	5.37	5.031	5.000	100.61
PFEESA_1	314.8 / 134.9	5.76	5.180	4.460	116.14
PFEESA_2	314.8 / 82.9	5.76	4.807	4.460	107.78
PFMPA	229.0 / 84.9	3.16	5.250	5.000	105.00
PFMBA	279.0 / 85.1	4.79	5.571	5.000	111.41
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC59 ISC	**Injection Vial**	11
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 10:14:53 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.94	0.821	0.801	102.47
PFPeA	263.0 / 219.0	4.40	0.398	0.400	99.43
PFHxA_1	313.0 / 269.0	5.48	0.197	0.200	98.65
PFHxA_2	313.0 / 118.9	5.48	0.266	0.200	133.16
PFHpA_1	363.1 / 319.0	6.19	0.215	0.200	107.50
PFHpA_2	363.1 / 169.0	6.19	0.195	0.200	97.64
PFOA_1	413.0 / 369.0	6.72	0.199	0.200	99.41
PFOA_2	413.0 / 169.0	6.71	0.263	0.200	131.56
PFNA_1	463.0 / 419.0	7.18	0.208	0.200	104.15
PFNA_2	463.0 / 219.0	7.13	0.184	0.200	92.22
PFDA_1	512.9 / 469.0	7.59	0.218	0.200	108.99
PFDA_2	512.9 / 219.0	7.58	0.206	0.200	102.81
PFUnA_1	563.1 / 519.0	7.98	0.198	0.200	98.89
PFUnA_2	563.1 / 269.1	7.98	0.294	0.200	147.00
PFDoA_1	613.1 / 569.0	8.36	0.203	0.200	101.34
PFDoA_2	613.1 / 319.0	8.36	0.241	0.200	120.64
PFTrDA_1	663.0 / 619.0	8.72	0.241	0.200	120.39
PFTrDA_2	663.0 / 168.9	8.72	0.277	0.200	138.57
PFTeDA_1	713.0 / 669.0	9.06	0.229	0.200	114.26
PFTeDA_2	713.0 / 168.9	9.06	0.231	0.200	115.32
PFBS_1	298.7 / 79.9	5.36	0.174	0.178	97.80
PFBS_2	298.9 / 98.8	5.37	0.166	0.178	93.19
PFPeS_1	349.1 / 79.9	6.20	0.195	0.188	103.91
PFPeS_2	349.1 / 98.9	6.20	0.215	0.188	114.41
PFHxS_1	398.7 / 79.9	6.78	0.204	0.183	111.58
PFHxS_2	398.7 / 98.9	6.78	0.232	0.183	126.97
PFHpS_1	449.0 / 79.9	7.27	0.186	0.191	97.22
PFHpS_2	449.0 / 98.9	7.27	0.209	0.191	109.24
PFOS_1	498.9 / 79.9	7.70	0.209	0.186	112.25
PFOS_2	498.9 / 98.9	7.70	0.192	0.186	103.42
PFNS_1	548.8 / 79.9	8.11	0.204	0.192	106.15
PFNS_2	548.8 / 98.9	8.11	0.158	0.192	82.37
PFDS_1	599.0 / 79.9	8.49	0.217	0.193	112.59
PFDS_2	599.0 / 98.9	8.49	0.240	0.193	124.43
PFDoS_1	699.1 / 79.9	9.19	0.184	0.194	94.82
PFDoS_2	699.1 / 98.9	9.19	0.205	0.194	105.45
4:2FTS_1	327.1 / 307.0	5.27	0.653	0.750	87.09
4:2FTS_2	327.1 / 80.9	5.27	0.733	0.750	97.70
6:2FTS_1	427.1 / 407.0	6.55	0.796	0.762	104.45
6:2FTS_2	427.1 / 80.9	6.55	0.753	0.762	98.76
8:2FTS_1	527.1 / 507.0	7.43	0.709	0.769	92.26
8:2FTS_2	527.1 / 80.8	7.43	0.816	0.769	106.08
PFOSA_1	498.1 / 77.9	8.06	0.193	0.201	96.05
PFOSA_2	498.1 / 478.0	8.07	0.606	0.201	301.58
NMeFOSA_1	511.9 / 219.0	10.12	0.185	0.200	92.29
NMeFOSA_2	511.9 / 169.0	10.10	0.226	0.200	112.99
NEtFOSA_1	526.0 / 219.0	10.47	0.189	0.201	94.19
NEtFOSA_2	526.0 / 169.0	10.41	0.229	0.201	113.90
NMeFOSAA_1	570.1 / 419.0	7.63	0.208	0.200	103.85
NMeFOSAA_2	570.1 / 483.0	7.65	0.261	0.200	130.63
NEtFOSAA_1	584.2 / 419.1	7.77	0.210	0.200	104.91
NEtFOSAA_2	584.2 / 526.0	7.78	0.223	0.200	111.51
NMeFOSE	616.1 / 58.9	10.09	2.077	2.004	103.64
NEtFOSE	630.0 / 58.9	10.39	1.924	2.008	95.81
HFPO-DA_1	284.9 / 168.9	5.73	0.839	0.801	104.73
HFPO-DA_2	284.9 / 184.9	5.73	0.970	0.801	121.10
ADONA_1	376.9 / 250.9	6.39	0.855	0.757	113.01
ADONA_2	376.9 / 84.8	6.39	0.977	0.757	129.08
9Cl-PF3ONS_1	530.8 / 351.0	7.98	0.669	0.747	89.62
9Cl-PF3ONS_2	532.8 / 353.0	7.97	0.697	0.747	93.26
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	0.827	0.755	109.47

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	0.820	0.755	108.55
3:3 FTCA_1	241.0 / 177.0	3.72	1.016	1.001	101.45
3:3 FTCA_2	241.0 / 117.0	3.71	1.118	1.001	111.64
5:3 FTCA_1	341.0 / 237.1	5.79	4.878	5.005	97.46
5:3 FTCA_2	341.0 / 217.0	5.79	5.022	5.005	100.35
7:3 FTCA_1	441.0 / 316.9	6.85	4.601	5.005	91.92
7:3 FTCA_2	441.0 / 336.9	6.85	4.418	5.005	88.27
NFDHA_1	295.0 / 201.1	5.37	0.376	0.400	94.11
NFDHA_2	295.0 / 84.9	5.37	0.511	0.400	127.73
PFEESA_1	314.8 / 134.9	5.76	0.358	0.357	100.19
PFEESA_2	314.8 / 82.9	5.76	0.381	0.357	106.65
PFMPA	229.0 / 84.9	3.16	0.412	0.400	102.97
PFMBA	279.0 / 85.1	4.79	0.384	0.400	95.92
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	12
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 10:37:39 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	9.969	9.993	99.76
PFPeA	263.0 / 219.0	4.42	5.137	4.996	102.82
PFHxA_1	313.0 / 269.0	5.49	2.447	2.498	97.97
PFHxA_2	313.0 / 118.9	5.48	2.430	2.498	97.28
PFHpA_1	363.1 / 319.0	6.20	2.616	2.498	104.70
PFHpA_2	363.1 / 169.0	6.20	2.966	2.498	118.73
PFOA_1	413.0 / 369.0	6.73	2.619	2.501	104.73
PFOA_2	413.0 / 169.0	6.65	2.531	2.501	101.20
PFNA_1	463.0 / 419.0	7.18	2.426	2.496	97.20
PFNA_2	463.0 / 219.0	7.18	2.368	2.496	94.87
PFDA_1	512.9 / 469.0	7.59	2.484	2.498	99.44
PFDA_2	512.9 / 219.0	7.59	2.402	2.498	96.17
PFUnA_1	563.1 / 519.0	7.98	2.839	2.498	113.64
PFUnA_2	563.1 / 269.1	7.98	2.667	2.498	106.78
PFDoA_1	613.1 / 569.0	8.36	2.323	2.498	92.98
PFDoA_2	613.1 / 319.0	8.35	2.080	2.498	83.26
PFTrDA_1	663.0 / 619.0	8.72	2.449	2.498	98.02
PFTrDA_2	663.0 / 168.9	8.72	2.478	2.498	99.20
PFTeDA_1	713.0 / 669.0	9.06	2.575	2.498	103.07
PFTeDA_2	713.0 / 168.9	9.06	2.435	2.498	97.46
PFBS_1	298.7 / 79.9	5.37	2.066	2.218	93.17
PFBS_2	298.9 / 98.8	5.37	2.272	2.218	102.43
PFPeS_1	349.1 / 79.9	6.21	2.394	2.348	101.98
PFPeS_2	349.1 / 98.9	6.21	2.499	2.348	106.44
PFHxS_1	398.7 / 79.9	6.79	2.239	2.279	98.24
PFHxS_2	398.7 / 98.9	6.79	2.282	2.279	100.13
PFHpS_1	449.0 / 79.9	7.28	2.510	2.378	105.53
PFHpS_2	449.0 / 98.9	7.28	2.537	2.378	106.71
PFOS_1	498.9 / 79.9	7.70	2.304	2.318	99.38
PFOS_2	498.9 / 98.9	7.70	2.289	2.318	98.73
PFNS_1	548.8 / 79.9	8.10	2.390	2.398	99.68
PFNS_2	548.8 / 98.9	8.10	2.516	2.398	104.90
PFDS_1	599.0 / 79.9	8.49	2.514	2.408	104.41
PFDS_2	599.0 / 98.9	8.49	2.478	2.408	102.91
PFDoS_1	699.1 / 79.9	9.19	2.621	2.418	108.40
PFDoS_2	699.1 / 98.9	9.19	2.600	2.418	107.51
4:2FTS_1	327.1 / 307.0	5.27	9.854	9.363	105.25
4:2FTS_2	327.1 / 80.9	5.27	10.069	9.363	107.54
6:2FTS_1	427.1 / 407.0	6.56	9.481	9.503	99.77
6:2FTS_2	427.1 / 80.9	6.56	9.704	9.503	102.11
8:2FTS_1	527.1 / 507.0	7.43	11.278	9.593	117.56
8:2FTS_2	527.1 / 80.8	7.43	10.730	9.593	111.86
PFOSA_1	498.1 / 77.9	8.05	2.448	2.508	97.59
PFOSA_2	498.1 / 478.0	8.05	1.768	2.508	70.50
NMeFOSA_1	511.9 / 219.0	10.12	2.563	2.499	102.55
NMeFOSA_2	511.9 / 169.0	10.10	2.350	2.499	94.06
NEtFOSA_1	526.0 / 219.0	10.46	2.477	2.503	98.97
NEtFOSA_2	526.0 / 169.0	10.41	2.463	2.503	98.40
NMeFOSAA_1	570.1 / 419.0	7.63	2.385	2.498	95.49
NMeFOSAA_2	570.1 / 483.0	7.63	2.231	2.498	89.30
NEtFOSAA_1	584.2 / 419.1	7.77	2.277	2.501	91.03
NEtFOSAA_2	584.2 / 526.0	7.77	2.352	2.501	94.06
NMeFOSE	616.1 / 58.9	10.08	25.241	25.012	100.92
NEtFOSE	630.0 / 58.9	10.38	25.383	25.062	101.28
HFPO-DA_1	284.9 / 168.9	5.74	10.711	9.993	107.18
HFPO-DA_2	284.9 / 184.9	5.74	10.732	9.993	107.40
ADONA_1	376.9 / 250.9	6.40	10.532	9.443	111.53
ADONA_2	376.9 / 84.8	6.40	9.637	9.443	102.05
9Cl-PF3ONS_1	530.8 / 351.0	7.97	9.408	9.323	100.92
9Cl-PF3ONS_2	532.8 / 353.0	7.97	9.085	9.323	97.45
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	10.128	9.423	107.48

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	10.837	9.423	115.00
3:3 FTCA_1	241.0 / 177.0	3.72	12.471	12.491	99.84
3:3 FTCA_2	241.0 / 117.0	3.72	11.889	12.491	95.18
5:3 FTCA_1	341.0 / 237.1	5.79	58.725	62.455	94.03
5:3 FTCA_2	341.0 / 217.0	5.79	60.339	62.455	96.61
7:3 FTCA_1	441.0 / 316.9	6.86	57.288	62.455	91.73
7:3 FTCA_2	441.0 / 336.9	6.86	55.764	62.455	89.29
NFDHA_1	295.0 / 201.1	5.38	4.747	4.996	95.02
NFDHA_2	295.0 / 84.9	5.38	4.189	4.996	83.84
PFEESA_1	314.8 / 134.9	5.77	4.343	4.457	97.45
PFEESA_2	314.8 / 82.9	5.76	4.261	4.457	95.61
PFMPA	229.0 / 84.9	3.16	5.116	4.996	102.41
PFMBA	279.0 / 85.1	4.80	4.991	4.996	99.90
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	23
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 2:48:25 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.94	10.075	9.993	100.82
PFPeA	263.0 / 219.0	4.41	5.186	4.996	103.80
PFHxA_1	313.0 / 269.0	5.49	2.483	2.498	99.38
PFHxA_2	313.0 / 118.9	5.49	2.560	2.498	102.49
PFHpA_1	363.1 / 319.0	6.22	2.505	2.498	100.29
PFHpA_2	363.1 / 169.0	6.22	2.651	2.498	106.12
PFOA_1	413.0 / 369.0	6.75	2.525	2.501	100.95
PFOA_2	413.0 / 169.0	6.68	2.528	2.501	101.09
PFNA_1	463.0 / 419.0	7.20	2.797	2.496	112.05
PFNA_2	463.0 / 219.0	7.18	2.791	2.496	111.82
PFDA_1	512.9 / 469.0	7.61	2.460	2.498	98.47
PFDA_2	512.9 / 219.0	7.61	2.736	2.498	109.52
PFUnA_1	563.1 / 519.0	7.99	2.685	2.498	107.50
PFUnA_2	563.1 / 269.1	7.99	2.330	2.498	93.26
PFDoA_1	613.1 / 569.0	8.36	2.571	2.498	102.92
PFDoA_2	613.1 / 319.0	8.36	2.484	2.498	99.46
PFTrDA_1	663.0 / 619.0	8.72	2.634	2.498	105.46
PFTrDA_2	663.0 / 168.9	8.72	2.789	2.498	111.65
PFTeDA_1	713.0 / 669.0	9.06	2.614	2.498	104.64
PFTeDA_2	713.0 / 168.9	9.06	2.400	2.498	96.08
PFBS_1	298.7 / 79.9	5.38	2.174	2.218	98.00
PFBS_2	298.9 / 98.8	5.37	2.383	2.218	107.45
PFPeS_1	349.1 / 79.9	6.23	2.389	2.348	101.74
PFPeS_2	349.1 / 98.9	6.23	2.512	2.348	106.99
PFHxS_1	398.7 / 79.9	6.81	2.308	2.279	101.25
PFHxS_2	398.7 / 98.9	6.81	2.277	2.279	99.90
PFHpS_1	449.0 / 79.9	7.29	2.541	2.378	106.84
PFHpS_2	449.0 / 98.9	7.29	2.537	2.378	106.67
PFOS_1	498.9 / 79.9	7.71	2.395	2.318	103.30
PFOS_2	498.9 / 98.9	7.71	2.245	2.318	96.84
PFNS_1	548.8 / 79.9	8.11	2.404	2.398	100.24
PFNS_2	548.8 / 98.9	8.11	2.236	2.398	93.24
PFDS_1	599.0 / 79.9	8.50	2.387	2.408	99.14
PFDS_2	599.0 / 98.9	8.50	2.594	2.408	107.72
PFDoS_1	699.1 / 79.9	9.19	2.460	2.418	101.72
PFDoS_2	699.1 / 98.9	9.19	2.513	2.418	103.91
4:2FTS_1	327.1 / 307.0	5.28	9.558	9.363	102.08
4:2FTS_2	327.1 / 80.9	5.28	9.565	9.363	102.16
6:2FTS_1	427.1 / 407.0	6.58	10.685	9.503	112.44
6:2FTS_2	427.1 / 80.9	6.58	10.515	9.503	110.65
8:2FTS_1	527.1 / 507.0	7.44	10.172	9.593	106.03
8:2FTS_2	527.1 / 80.8	7.44	9.584	9.593	99.90
PFOSA_1	498.1 / 77.9	8.05	2.627	2.508	104.75
PFOSA_2	498.1 / 478.0	8.05	2.244	2.508	89.48
NMeFOSA_1	511.9 / 219.0	10.12	2.520	2.499	100.85
NMeFOSA_2	511.9 / 169.0	10.10	2.286	2.499	91.48
NEtFOSA_1	526.0 / 219.0	10.47	2.444	2.503	97.63
NEtFOSA_2	526.0 / 169.0	10.42	2.483	2.503	99.19
NMeFOSAA_1	570.1 / 419.0	7.64	2.529	2.498	101.25
NMeFOSAA_2	570.1 / 483.0	7.64	2.386	2.498	95.50
NEtFOSAA_1	584.2 / 419.1	7.79	2.299	2.501	91.93
NEtFOSAA_2	584.2 / 526.0	7.78	2.458	2.501	98.27
NMeFOSE	616.1 / 58.9	10.09	25.175	25.012	100.65
NEtFOSE	630.0 / 58.9	10.39	25.586	25.062	102.09
HFPO-DA_1	284.9 / 168.9	5.75	9.813	9.993	98.20
HFPO-DA_2	284.9 / 184.9	5.75	10.299	9.993	103.06
ADONA_1	376.9 / 250.9	6.42	9.991	9.443	105.80
ADONA_2	376.9 / 84.8	6.42	10.076	9.443	106.71
9Cl-PF3ONS_1	530.8 / 351.0	7.99	9.736	9.323	104.43
9Cl-PF3ONS_2	532.8 / 353.0	7.99	9.465	9.323	101.52
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	10.500	9.423	111.43

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	10.246	9.423	108.73
3:3 FTCA_1	241.0 / 177.0	3.72	12.696	12.491	101.64
3:3 FTCA_2	241.0 / 117.0	3.72	12.931	12.491	103.52
5:3 FTCA_1	341.0 / 237.1	5.81	63.104	62.455	101.04
5:3 FTCA_2	341.0 / 217.0	5.81	62.835	62.455	100.61
7:3 FTCA_1	441.0 / 316.9	6.87	61.797	62.455	98.95
7:3 FTCA_2	441.0 / 336.9	6.87	60.800	62.455	97.35
NFDHA_1	295.0 / 201.1	5.39	5.196	4.996	104.00
NFDHA_2	295.0 / 84.9	5.39	4.347	4.996	87.00
PFEESA_1	314.8 / 134.9	5.78	4.774	4.457	107.10
PFEESA_2	314.8 / 82.9	5.78	4.978	4.457	111.70
PFMPA	229.0 / 84.9	3.16	4.952	4.996	99.12
PFMBA	279.0 / 85.1	4.81	5.194	4.996	103.96
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC63 CV	**Injection Vial**	32
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 6:13:31 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	19.147	19.990	95.78
PFPeA	263.0 / 219.0	4.42	10.060	9.995	100.65
PFHxA_1	313.0 / 269.0	5.50	4.763	4.998	95.29
PFHxA_2	313.0 / 118.9	5.50	4.539	4.998	90.81
PFHpA_1	363.1 / 319.0	6.22	4.828	4.998	96.60
PFHpA_2	363.1 / 169.0	6.22	5.021	4.998	100.47
PFOA_1	413.0 / 369.0	6.75	4.535	5.003	90.65
PFOA_2	413.0 / 169.0	6.67	4.409	5.003	88.12
PFNA_1	463.0 / 419.0	7.19	4.927	4.994	98.66
PFNA_2	463.0 / 219.0	7.18	4.946	4.994	99.05
PFDA_1	512.9 / 469.0	7.60	4.928	4.998	98.60
PFDA_2	512.9 / 219.0	7.60	4.227	4.998	84.56
PFUnA_1	563.1 / 519.0	7.99	4.770	4.998	95.45
PFUnA_2	563.1 / 269.1	7.99	4.180	4.998	83.63
PFDoA_1	613.1 / 569.0	8.36	4.565	4.998	91.33
PFDoA_2	613.1 / 319.0	8.36	4.495	4.998	89.94
PFTrDA_1	663.0 / 619.0	8.72	5.429	4.998	108.62
PFTrDA_2	663.0 / 168.9	8.72	5.108	4.998	102.20
PFTeDA_1	713.0 / 669.0	9.06	5.269	4.998	105.41
PFTeDA_2	713.0 / 168.9	9.06	4.848	4.998	97.00
PFBS_1	298.7 / 79.9	5.38	4.364	4.438	98.33
PFBS_2	298.9 / 98.8	5.38	4.603	4.438	103.72
PFPeS_1	349.1 / 79.9	6.22	4.829	4.698	102.79
PFPeS_2	349.1 / 98.9	6.22	4.758	4.698	101.28
PFHxS_1	398.7 / 79.9	6.81	4.535	4.560	99.45
PFHxS_2	398.7 / 98.9	6.80	4.429	4.560	97.13
PFHpS_1	449.0 / 79.9	7.29	4.227	4.758	88.85
PFHpS_2	449.0 / 98.9	7.29	4.242	4.758	89.16
PFOS_1	498.9 / 79.9	7.71	4.023	4.638	86.74
PFOS_2	498.9 / 98.9	7.71	3.934	4.638	84.81
PFNS_1	548.8 / 79.9	8.11	4.305	4.798	89.73
PFNS_2	548.8 / 98.9	8.11	3.860	4.798	80.45
PFDS_1	599.0 / 79.9	8.49	4.651	4.818	96.54
PFDS_2	599.0 / 98.9	8.49	4.778	4.818	99.17
PFDoS_1	699.1 / 79.9	9.19	4.475	4.838	92.50
PFDoS_2	699.1 / 98.9	9.19	4.358	4.838	90.08
4:2FTS_1	327.1 / 307.0	5.28	19.267	18.731	102.86
4:2FTS_2	327.1 / 80.9	5.28	19.072	18.731	101.82
6:2FTS_1	427.1 / 407.0	6.57	17.719	19.010	93.21
6:2FTS_2	427.1 / 80.9	6.57	18.271	19.010	96.11
8:2FTS_1	527.1 / 507.0	7.44	20.433	19.190	106.48
8:2FTS_2	527.1 / 80.8	7.44	18.049	19.190	94.05
PFOSA_1	498.1 / 77.9	8.04	4.633	5.017	92.35
PFOSA_2	498.1 / 478.0	8.03	5.277	5.017	105.18
NMeFOSA_1	511.9 / 219.0	10.12	4.877	5.000	97.54
NMeFOSA_2	511.9 / 169.0	10.08	4.683	5.000	93.65
NEtFOSA_1	526.0 / 219.0	10.46	4.517	5.007	90.22
NEtFOSA_2	526.0 / 169.0	10.42	4.589	5.007	91.66
NMeFOSAA_1	570.1 / 419.0	7.64	4.737	4.998	94.78
NMeFOSAA_2	570.1 / 483.0	7.64	5.278	4.998	105.59
NEtFOSAA_1	584.2 / 419.1	7.78	5.105	5.003	102.03
NEtFOSAA_2	584.2 / 526.0	7.78	4.796	5.003	95.87
NMeFOSE	616.1 / 58.9	10.09	48.424	50.035	96.78
NEtFOSE	630.0 / 58.9	10.38	48.420	50.135	96.58
HFPO-DA_1	284.9 / 168.9	5.75	18.697	19.990	93.53
HFPO-DA_2	284.9 / 184.9	5.75	21.462	19.990	107.37
ADONA_1	376.9 / 250.9	6.42	18.082	18.891	95.72
ADONA_2	376.9 / 84.8	6.42	17.667	18.891	93.52
9Cl-PF3ONS_1	530.8 / 351.0	7.99	18.194	18.651	97.55
9Cl-PF3ONS_2	532.8 / 353.0	7.98	17.426	18.651	93.43
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	19.202	18.851	101.86

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	18.104	18.851	96.04
3:3 FTCA_1	241.0 / 177.0	3.75	23.809	24.988	95.28
3:3 FTCA_2	241.0 / 117.0	3.75	23.437	24.988	93.79
5:3 FTCA_1	341.0 / 237.1	5.81	119.235	124.938	95.44
5:3 FTCA_2	341.0 / 217.0	5.81	113.637	124.938	90.95
7:3 FTCA_1	441.0 / 316.9	6.87	108.889	124.938	87.15
7:3 FTCA_2	441.0 / 336.9	6.87	111.479	124.938	89.23
NFDHA_1	295.0 / 201.1	5.39	8.877	9.995	88.82
NFDHA_2	295.0 / 84.9	5.39	9.017	9.995	90.21
PFEESA_1	314.8 / 134.9	5.78	8.779	8.916	98.46
PFEESA_2	314.8 / 82.9	5.78	8.907	8.916	99.90
PFMPA	229.0 / 84.9	3.18	9.120	9.995	91.24
PFMBA	279.0 / 85.1	4.81	9.781	9.995	97.86
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC59 CV	**Injection Vial**	41
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:50:56 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.93	0.839	0.801	104.79
PFPeA	263.0 / 219.0	4.39	0.432	0.400	107.89
PFHxA_1	313.0 / 269.0	5.47	0.213	0.200	106.53
PFHxA_2	313.0 / 118.9	5.47	0.248	0.200	123.93
PFHpA_1	363.1 / 319.0	6.19	0.197	0.200	98.40
PFHpA_2	363.1 / 169.0	6.19	0.111	0.200	55.54
PFOA_1	413.0 / 369.0	6.72	0.230	0.200	114.84
PFOA_2	413.0 / 169.0	6.63	0.172	0.200	86.22
PFNA_1	463.0 / 419.0	7.17	0.210	0.200	104.95
PFNA_2	463.0 / 219.0	7.17	0.225	0.200	112.73
PFDA_1	512.9 / 469.0	7.59	0.217	0.200	108.51
PFDA_2	512.9 / 219.0	7.58	0.188	0.200	94.11
PFUnA_1	563.1 / 519.0	7.98	0.198	0.200	98.80
PFUnA_2	563.1 / 269.1	7.99	0.168	0.200	83.78
PFDoA_1	613.1 / 569.0	8.35	0.204	0.200	102.03
PFDoA_2	613.1 / 319.0	8.35	0.193	0.200	96.37
PFTrDA_1	663.0 / 619.0	8.72	0.218	0.200	109.15
PFTrDA_2	663.0 / 168.9	8.71	0.221	0.200	110.71
PFTeDA_1	713.0 / 669.0	9.06	0.214	0.200	106.86
PFTeDA_2	713.0 / 168.9	9.06	0.253	0.200	126.47
PFBS_1	298.7 / 79.9	5.35	0.197	0.178	110.90
PFBS_2	298.9 / 98.8	5.35	0.187	0.178	105.22
PFPeS_1	349.1 / 79.9	6.19	0.181	0.188	96.48
PFPeS_2	349.1 / 98.9	6.19	0.252	0.188	133.99
PFHxS_1	398.7 / 79.9	6.78	0.192	0.183	104.69
PFHxS_2	398.7 / 98.9	6.78	0.175	0.183	95.47
PFHpS_1	449.0 / 79.9	7.27	0.222	0.191	116.10
PFHpS_2	449.0 / 98.9	7.26	0.192	0.191	100.52
PFOS_1	498.9 / 79.9	7.70	0.222	0.186	119.42
PFOS_2	498.9 / 98.9	7.70	0.238	0.186	127.98
PFNS_1	548.8 / 79.9	8.10	0.233	0.192	121.25
PFNS_2	548.8 / 98.9	8.10	0.258	0.192	134.48
PFDS_1	599.0 / 79.9	8.49	0.237	0.193	123.05
PFDS_2	599.0 / 98.9	8.49	0.260	0.193	134.57
PFDoS_1	699.1 / 79.9	9.19	0.239	0.194	123.20
PFDoS_2	699.1 / 98.9	9.19	0.248	0.194	127.78
4:2FTS_1	327.1 / 307.0	5.26	0.798	0.750	106.41
4:2FTS_2	327.1 / 80.9	5.26	0.767	0.750	102.27
6:2FTS_1	427.1 / 407.0	6.55	0.788	0.762	103.35
6:2FTS_2	427.1 / 80.9	6.55	0.727	0.762	95.36
8:2FTS_1	527.1 / 507.0	7.42	0.846	0.769	110.00
8:2FTS_2	527.1 / 80.8	7.42	0.833	0.769	108.35
PFOSA_1	498.1 / 77.9	8.05	0.203	0.201	101.18
PFOSA_2	498.1 / 478.0	N/A	N/A	0.201	N/A
NMeFOSA_1	511.9 / 219.0	10.13	0.246	0.200	122.80
NMeFOSA_2	511.9 / 169.0	10.12	0.198	0.200	98.97
NEtFOSA_1	526.0 / 219.0	10.48	0.179	0.201	89.21
NEtFOSA_2	526.0 / 169.0	10.42	0.219	0.201	108.98
NMeFOSAA_1	570.1 / 419.0	7.62	0.180	0.200	90.19
NMeFOSAA_2	570.1 / 483.0	7.62	0.404	0.200	201.85
NEtFOSAA_1	584.2 / 419.1	7.77	0.206	0.200	103.10
NEtFOSAA_2	584.2 / 526.0	7.76	0.222	0.200	111.12
NMeFOSE	616.1 / 58.9	10.09	1.984	2.004	99.01
NEtFOSE	630.0 / 58.9	10.39	2.123	2.008	105.74
HFPO-DA_1	284.9 / 168.9	5.72	0.866	0.801	108.13
HFPO-DA_2	284.9 / 184.9	5.73	0.952	0.801	118.83
ADONA_1	376.9 / 250.9	6.39	0.817	0.757	107.93
ADONA_2	376.9 / 84.8	6.39	0.733	0.757	96.78
9Cl-PF3ONS_1	530.8 / 351.0	7.97	0.738	0.747	98.77
9Cl-PF3ONS_2	532.8 / 353.0	7.97	0.730	0.747	97.71
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	0.861	0.755	113.97

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	0.855	0.755	113.31
3:3 FTCA_1	241.0 / 177.0	3.70	0.969	1.001	96.76
3:3 FTCA_2	241.0 / 117.0	3.69	0.981	1.001	97.99
5:3 FTCA_1	341.0 / 237.1	5.78	4.677	5.005	93.46
5:3 FTCA_2	341.0 / 217.0	5.78	4.827	5.005	96.44
7:3 FTCA_1	441.0 / 316.9	6.85	4.331	5.005	86.54
7:3 FTCA_2	441.0 / 336.9	6.85	4.677	5.005	93.44
NFDHA_1	295.0 / 201.1	5.36	0.447	0.400	111.83
NFDHA_2	295.0 / 84.9	5.36	0.372	0.400	92.97
PFEESA_1	314.8 / 134.9	5.75	0.384	0.357	107.54
PFEESA_2	314.8 / 82.9	5.75	0.331	0.357	92.69
PFMPA	229.0 / 84.9	3.14	0.397	0.400	99.29
PFMBA	279.0 / 85.1	4.78	0.428	0.400	106.91
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC43 ICC	**Injection Vial**	10
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 9:52:04 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.344	10.000	103.44
13C5-PFPeA	268.3 / 223.0	4.39	5.257	5.000	105.14
13C5-PFHxA	318.0 / 273.0	5.47	2.699	2.500	107.96
13C4-PFHpA	367.1 / 322.0	6.18	2.700	2.500	107.99
13C8-PFOA	421.1 / 376.0	6.72	2.606	2.500	104.23
13C9-PFNA	472.1 / 427.0	7.17	1.317	1.250	105.32
13C6-PFDA	519.1 / 474.1	7.58	1.163	1.250	93.04
13C7-PFUnA	570.0 / 525.1	7.97	1.157	1.250	92.58
13C2-PFDoA	615.1 / 570.0	8.34	1.141	1.250	91.29
13C2-PFTeDA	715.2 / 670.0	9.05	1.188	1.250	95.01
13C3-PFBS	302.1 / 79.9	5.35	2.347	2.330	100.72
13C3-PFHxS	402.1 / 79.9	6.78	2.326	2.370	98.14
13C8-PFOS	507.1 / 79.9	7.69	2.536	2.395	105.87
13C2-4:2FTS	329.1 / 80.9	5.25	5.716	4.690	121.87
13C2-6:2FTS	429.1 / 80.9	6.54	4.759	4.755	100.09
13C2-8:2FTS	529.1 / 80.9	7.42	4.189	4.800	87.27
13C8-PFOSA	506.1 / 77.8	8.05	2.565	2.500	102.61
D3-MeFOSA	515.0 / 219.0	10.12	2.470	2.500	98.82
D5-EtFOSA	531.1 / 219.0	10.46	2.555	2.500	102.19
d3-MeFOSAA	573.2 / 419.0	7.62	4.650	5.000	93.01
d5-EtFOSAA	589.2 / 419.0	7.76	5.207	5.000	104.14
D7-MeFOSE	623.2 / 58.9	10.06	26.144	25.000	104.57
D9-EtFOSE	639.2 / 58.9	10.36	26.812	25.000	107.25
13C3-HFPO-DA	286.9 / 168.9	5.72	10.266	10.000	102.66

Sample Name	MC59 ISC	**Injection Vial**	11
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 10:14:53 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.93	9.959	10.010	99.49
13C5-PFPeA	268.3 / 223.0	4.39	4.820	5.005	96.31
13C5-PFHxA	318.0 / 273.0	5.47	2.469	2.503	98.64
13C4-PFHpA	367.1 / 322.0	6.18	2.288	2.503	91.40
13C8-PFOA	421.1 / 376.0	6.72	2.312	2.503	92.35
13C9-PFNA	472.1 / 427.0	7.17	1.282	1.251	102.47
13C6-PFDA	519.1 / 474.1	7.58	1.170	1.251	93.50
13C7-PFUnA	570.0 / 525.1	7.97	1.208	1.251	96.54
13C2-PFDoA	615.1 / 570.0	8.35	1.294	1.251	103.42
13C2-PFTeDA	715.2 / 670.0	9.05	1.150	1.251	91.91
13C3-PFBS	302.1 / 79.9	5.35	2.457	2.332	105.36
13C3-PFHxS	402.1 / 79.9	6.78	2.306	2.372	97.22
13C8-PFOS	507.1 / 79.9	7.69	2.491	2.397	103.93
13C2-4:2FTS	329.1 / 80.9	5.26	5.615	4.695	119.60
13C2-6:2FTS	429.1 / 80.9	6.54	5.257	4.760	110.43
13C2-8:2FTS	529.1 / 80.9	7.42	5.434	4.805	113.10
13C8-PFOSA	506.1 / 77.8	8.05	2.685	2.503	107.26
D3-MeFOSA	515.0 / 219.0	10.12	2.679	2.503	107.05
D5-EtFOSA	531.1 / 219.0	10.46	2.614	2.503	104.43
d3-MeFOSAA	573.2 / 419.0	7.62	5.777	5.005	115.42
d5-EtFOSAA	589.2 / 419.0	7.76	5.354	5.005	106.98
D7-MeFOSE	623.2 / 58.9	10.07	26.723	25.025	106.78
D9-EtFOSE	639.2 / 58.9	10.36	27.467	25.025	109.76
13C3-HFPO-DA	286.9 / 168.9	5.72	9.231	10.010	92.22

Sample Name	MC62 CV	**Injection Vial**	12
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/20/2024 10:37:39 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.055	9.993	100.62
13C5-PFPeA	268.3 / 223.0	4.41	4.468	4.996	89.42
13C5-PFHxA	318.0 / 273.0	5.47	2.409	2.498	96.43
13C4-PFHpA	367.1 / 322.0	6.19	2.241	2.498	89.70
13C8-PFOA	421.1 / 376.0	6.72	2.538	2.498	101.60
13C9-PFNA	472.1 / 427.0	7.17	1.247	1.249	99.85
13C6-PFDA	519.1 / 474.1	7.58	1.262	1.249	101.06
13C7-PFUnA	570.0 / 525.1	7.96	1.229	1.249	98.36
13C2-PFDoA	615.1 / 570.0	8.34	1.353	1.249	108.31
13C2-PFTeDA	715.2 / 670.0	9.05	1.312	1.249	105.07
13C3-PFBS	302.1 / 79.9	5.36	2.309	2.328	99.20
13C3-PFHxS	402.1 / 79.9	6.78	2.275	2.368	96.06
13C8-PFOS	507.1 / 79.9	7.69	2.414	2.393	100.88
13C2-4:2FTS	329.1 / 80.9	5.26	4.907	4.687	104.70
13C2-6:2FTS	429.1 / 80.9	6.55	5.048	4.752	106.24
13C2-8:2FTS	529.1 / 80.9	7.42	4.172	4.797	86.97
13C8-PFOSA	506.1 / 77.8	8.04	2.641	2.498	105.71
D3-MeFOSA	515.0 / 219.0	10.12	2.653	2.498	106.19
D5-EtFOSA	531.1 / 219.0	10.45	2.558	2.498	102.40
d3-MeFOSAA	573.2 / 419.0	7.62	5.645	4.996	112.99
d5-EtFOSAA	589.2 / 419.0	7.76	6.065	4.996	121.40
D7-MeFOSE	623.2 / 58.9	10.06	26.151	24.982	104.68
D9-EtFOSE	639.2 / 58.9	10.36	26.002	24.982	104.08
13C3-HFPO-DA	286.9 / 168.9	5.73	8.772	9.993	87.78

Sample Name	MC62 CV	**Injection Vial**	23
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 2:48:25 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.93	9.982	9.993	99.89
13C5-PFPeA	268.3 / 223.0	4.40	5.127	4.996	102.63
13C5-PFHxA	318.0 / 273.0	5.48	2.635	2.498	105.49
13C4-PFHpA	367.1 / 322.0	6.21	2.635	2.498	105.48
13C8-PFOA	421.1 / 376.0	6.74	2.378	2.498	95.20
13C9-PFNA	472.1 / 427.0	7.19	1.137	1.249	91.02
13C6-PFDA	519.1 / 474.1	7.60	1.190	1.249	95.31
13C7-PFUnA	570.0 / 525.1	7.98	1.183	1.249	94.68
13C2-PFDoA	615.1 / 570.0	8.35	1.258	1.249	100.69
13C2-PFTeDA	715.2 / 670.0	9.05	1.236	1.249	98.98
13C3-PFBS	302.1 / 79.9	5.37	2.365	2.328	101.61
13C3-PFHxS	402.1 / 79.9	6.80	2.228	2.368	94.10
13C8-PFOS	507.1 / 79.9	7.71	2.438	2.393	101.89
13C2-4:2FTS	329.1 / 80.9	5.27	5.418	4.687	115.59
13C2-6:2FTS	429.1 / 80.9	6.57	4.629	4.752	97.42
13C2-8:2FTS	529.1 / 80.9	7.44	4.733	4.797	98.67
13C8-PFOSA	506.1 / 77.8	8.05	2.427	2.498	97.14
D3-MeFOSA	515.0 / 219.0	10.12	2.534	2.498	101.45
D5-EtFOSA	531.1 / 219.0	10.46	2.475	2.498	99.09
d3-MeFOSAA	573.2 / 419.0	7.63	5.221	4.996	104.51
d5-EtFOSAA	589.2 / 419.0	7.77	5.702	4.996	114.13
D7-MeFOSE	623.2 / 58.9	10.07	25.245	24.982	101.05
D9-EtFOSE	639.2 / 58.9	10.36	25.483	24.982	102.01
13C3-HFPO-DA	286.9 / 168.9	5.74	10.555	9.993	105.62

Sample Name	MC63 CV	**Injection Vial**	32
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 6:13:31 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	9.947	9.995	99.52
13C5-PFPeA	268.3 / 223.0	4.41	5.268	4.998	105.41
13C5-PFHxA	318.0 / 273.0	5.48	2.747	2.499	109.92
13C4-PFHpA	367.1 / 322.0	6.21	2.645	2.499	105.86
13C8-PFOA	421.1 / 376.0	6.73	2.515	2.499	100.66
13C9-PFNA	472.1 / 427.0	7.18	1.172	1.249	93.82
13C6-PFDA	519.1 / 474.1	7.59	1.187	1.249	95.01
13C7-PFUnA	570.0 / 525.1	7.98	1.227	1.249	98.26
13C2-PFDoA	615.1 / 570.0	8.35	1.346	1.249	107.79
13C2-PFTeDA	715.2 / 670.0	9.05	1.178	1.249	94.32
13C3-PFBS	302.1 / 79.9	5.37	2.397	2.329	102.94
13C3-PFHxS	402.1 / 79.9	6.80	2.339	2.369	98.75
13C8-PFOS	507.1 / 79.9	7.70	2.592	2.394	108.27
13C2-4:2FTS	329.1 / 80.9	5.27	4.927	4.688	105.10
13C2-6:2FTS	429.1 / 80.9	6.57	5.010	4.753	105.41
13C2-8:2FTS	529.1 / 80.9	7.43	4.547	4.798	94.77
13C8-PFOSA	506.1 / 77.8	8.03	2.490	2.499	99.65
D3-MeFOSA	515.0 / 219.0	10.12	2.465	2.499	98.64
D5-EtFOSA	531.1 / 219.0	10.45	2.522	2.499	100.92
d3-MeFOSAA	573.2 / 419.0	7.63	5.414	4.998	108.33
d5-EtFOSAA	589.2 / 419.0	7.77	5.539	4.998	110.83
D7-MeFOSE	623.2 / 58.9	10.06	25.704	24.988	102.87
D9-EtFOSE	639.2 / 58.9	10.36	25.713	24.988	102.90
13C3-HFPO-DA	286.9 / 168.9	5.74	10.767	9.995	107.73

Sample Name	MC59 CV	**Injection Vial**	41
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:50:56 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.92	9.755	10.010	97.45
13C5-PFPeA	268.3 / 223.0	4.38	5.067	5.005	101.24
13C5-PFHxA	318.0 / 273.0	5.46	2.617	2.503	104.55
13C4-PFHpA	367.1 / 322.0	6.18	2.553	2.503	102.00
13C8-PFOA	421.1 / 376.0	6.71	2.510	2.503	100.26
13C9-PFNA	472.1 / 427.0	7.16	1.290	1.251	103.10
13C6-PFDA	519.1 / 474.1	7.58	1.190	1.251	95.15
13C7-PFUnA	570.0 / 525.1	7.96	1.260	1.251	100.69
13C2-PFDoA	615.1 / 570.0	8.34	1.259	1.251	100.65
13C2-PFTeDA	715.2 / 670.0	9.05	1.211	1.251	96.80
13C3-PFBS	302.1 / 79.9	5.34	2.246	2.332	96.33
13C3-PFHxS	402.1 / 79.9	6.77	2.342	2.372	98.72
13C8-PFOS	507.1 / 79.9	7.69	2.327	2.397	97.06
13C2-4:2FTS	329.1 / 80.9	5.25	6.211	4.695	132.29
13C2-6:2FTS	429.1 / 80.9	6.54	5.259	4.760	110.48
13C2-8:2FTS	529.1 / 80.9	7.41	5.750	4.805	119.68
13C8-PFOSA	506.1 / 77.8	8.05	2.643	2.503	105.58
D3-MeFOSA	515.0 / 219.0	10.13	2.741	2.503	109.52
D5-EtFOSA	531.1 / 219.0	10.47	2.712	2.503	108.36
d3-MeFOSAA	573.2 / 419.0	7.61	5.633	5.005	112.54
d5-EtFOSAA	589.2 / 419.0	7.76	5.694	5.005	113.77
D7-MeFOSE	623.2 / 58.9	10.07	28.142	25.025	112.46
D9-EtFOSE	639.2 / 58.9	10.37	26.592	25.025	106.26
13C3-HFPO-DA	286.9 / 168.9	5.72	10.165	10.010	101.54

BATTELLE

PFAS Sample Quant Report

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Printed: 21/03/2024 3:26:38 PM

Sample Name	C2669-FS(0)	**Injection Vial**	18
Sample ID	WGNA-FB-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 12:54:25 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.93	13C4-PFBA	780492.80	40.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	285028.60	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	PFHxA	N/A	0.059	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	584794.89	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	584794.89	10.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	657045.60	10.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	657045.60	10.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	279802.39	5.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	279802.39	5.000	PFNA	N/A	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	240922.67	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	240922.67	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	89544.55	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	89544.55	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	192544.43	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	192544.43	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	73747.58	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	73747.58	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	73747.58	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	73747.58	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	505427.77	9.320	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	505427.77	9.320	PFBS	N/A	0.416	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	598741.66	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	598741.66	9.480	PFPeS	N/A	0.418	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	598741.66	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	598741.66	9.480	PFHxS	N/A	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFOS	N/A	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	396827.28	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	419369.33	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	419369.33	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	191774.91	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	191774.91	19.020	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	42163.96	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	42163.96	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	274164.83	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	274164.83	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	70537.85	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	70537.85	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	80874.78	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	80874.78	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	172327.47	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	172327.47	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	123340.92	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	123340.92	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	787870.84	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	794420.08	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	517075.43	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	285028.60	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	285028.60	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	311693.41	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	285028.60	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	285028.60	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2670-FS(0)	**Injection Vial**	19
Sample ID	WGNA-SW-NCREF4-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:17:16 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	34121.21	2.307	186.0	1.94	13C4-PFBA	539843.96	40.000				
PFPeA	263.0 / 219.0	4.42	68121.57	3.105	170.4	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	110031.70	3.598	200.0	5.50	13C5-PFHxA	291083.94	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.50	5822.44	3.232	157.8	5.50	13C5-PFHxA	291083.94	10.000	PFHxA	0.053	0.059	✓
PFHpA_1	363.1 / 319.0	6.23	82160.76	1.530	217.8	6.22	13C4-PFHpA	535562.27	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	2170.65	1.910	89.7	6.22	13C4-PFHpA	535562.27	10.000	PFHpA	0.026	0.021	✓
PFOA_1	413.0 / 369.0	6.76	299922.14	5.119	457.3	6.75	13C8-PFOA	652463.57	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	27815.58	4.289	544.7	6.75	13C8-PFOA	652463.57	10.000	PFOA	0.093	0.111	✓
PFNA_1	463.0 / 419.0	7.21	23993.94	0.824	114.0	7.20	13C9-PFNA	272709.19	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	10363.59	0.668	237.5	7.20	13C9-PFNA	272709.19	5.000	PFNA	0.432	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	247238.29	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	247238.29	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	89345.21	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	89345.21	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	164453.43	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	164453.43	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.39	64002.13	2.731	312.8	5.38	13C3-PFBS	458889.35	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	28397.19	2.926	313.5	5.38	13C3-PFBS	458889.35	9.320	PFBS	0.444	0.416	✓
PFPeS_1	349.1 / 79.9	6.24	15972.98	0.493	109.3	6.81	13C3-PFHxS	591693.75	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	5958.23	0.439	97.0	6.81	13C3-PFHxS	591693.75	9.480	PFPeS	0.373	0.418	✓
PFHxS_1	398.7 / 79.9	6.82	213114.15	3.964	507.2	6.81	13C3-PFHxS	591693.75	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	67245.97	3.618	423.3	6.81	13C3-PFHxS	591693.75	9.480	PFHxS	0.316	0.345	✓
PFHpS_1	449.0 / 79.9	7.30	9612.76	0.167	69.3	7.71	13C8-PFOS	409040.77	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	2337.15	0.138	57.2	7.71	13C8-PFOS	409040.77	9.580	PFHpS	0.243	0.296	✓
PFOS_1	498.9 / 79.9	7.70	412101.09	7.452	335.5	7.71	13C8-PFOS	409040.77	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	69021.40	6.142	409.5	7.71	13C8-PFOS	409040.77	9.580	PFOS	0.168	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	409416.48	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	409416.48	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.59	10844.10	0.355	384.6	6.58	13C2-6:2FTS	197904.49	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	3367.86	0.293	50.8	6.58	13C2-6:2FTS	197904.49	19.020	6:2FTS	0.311	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	41419.35	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	41419.35	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	280091.75	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	280091.75	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	85413.48	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	85413.48	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	94833.41	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	94833.41	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	174957.80	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	174957.80	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	127013.03	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	127013.03	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	645641.84	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.38	D9-EtFOSE	555222.10	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2671-FS(0)	**Injection Vial**	20
Sample ID	WGNA-SW-56-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:40:02 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	57681.75	3.046	205.4	1.93	13C4-PFBA	691314.49	40.000				
PFPeA	263.0 / 219.0	4.41	76288.20	3.684	234.4	4.40	13C5-PFPeA	284135.07	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.49	112690.88	3.941	253.7	5.48	13C5-PFHxA	272157.75	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.49	7238.22	4.297	210.3	5.48	13C5-PFHxA	272157.75	10.000	PFHxA	0.064	0.059	✓
PFHpA_1	363.1 / 319.0	6.21	109216.08	2.126	215.6	6.20	13C4-PFHpA	512303.44	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	2018.75	1.857	112.7	6.20	13C4-PFHpA	512303.44	10.000	PFHpA	0.019	0.021	✓
PFOA_1	413.0 / 369.0	6.74	675727.12	12.047	492.2	6.73	13C8-PFOA	624617.99	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.74	63365.89	10.205	676.1	6.73	13C8-PFOA	624617.99	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.19	29299.69	0.994	124.1	7.18	13C9-PFNA	276057.78	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	11797.84	0.751	256.0	7.18	13C9-PFNA	276057.78	5.000	PFNA	0.403	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	242129.26	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	242129.26	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	87333.28	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	87333.28	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	150360.42	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	150360.42	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	51399.91	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	51399.91	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	51399.91	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	51399.91	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.37	109620.03	4.259	571.3	5.36	13C3-PFBS	504029.72	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	47838.66	4.487	674.3	5.36	13C3-PFBS	504029.72	9.320	PFBS	0.436	0.416	✓
PFPeS_1	349.1 / 79.9	6.21	52554.02	1.681	293.2	6.79	13C3-PFHxS	571425.28	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	21179.75	1.617	278.2	6.79	13C3-PFHxS	571425.28	9.480	PFPeS	0.403	0.418	✓
PFHxS_1	398.7 / 79.9	6.80	686875.68	13.229	1052.1	6.79	13C3-PFHxS	571425.28	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.80	219006.01	12.201	955.1	6.79	13C3-PFHxS	571425.28	9.480	PFHxS	0.319	0.345	✓
PFHpS_1	449.0 / 79.9	7.28	27421.12	0.476	127.8	7.70	13C8-PFOS	411003.44	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.27	6863.14	0.403	166.0	7.70	13C8-PFOS	411003.44	9.580	PFHpS	0.250	0.296	✓
PFOS_1	498.9 / 79.9	7.69	1303637.31	23.462	572.6	7.70	13C8-PFOS	411003.44	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	244604.86	21.663	785.4	7.70	13C8-PFOS	411003.44	9.580	PFOS	0.188	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411003.44	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	410869.17	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	410869.17	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.57	2630.13	0.095	141.1	6.56	13C2-6:2FTS	180280.16	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.56	829.00	0.079	22.6	6.56	13C2-6:2FTS	180280.16	19.020	6:2FTS	0.315	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	43900.41	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	43900.41	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	274730.25	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	274730.25	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	71756.82	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	71756.82	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	70986.73	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	70986.73	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	163823.15	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	163823.15	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	120330.78	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	120330.78	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	610984.94	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	530910.77	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	481038.81	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	284135.07	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	284135.07	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	272157.75	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	284135.07	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	284135.07	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2672-FS(0)	**Injection Vial**	21
Sample ID	WGNA-SW-47-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 2:02:51 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.93	54106.57	2.796	275.3	1.92	13C4-PFBA	706242.53	40.000				
PFPeA	263.0 / 219.0	4.41	86854.36	4.008	265.1	4.40	13C5-PFPeA	297310.56	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.49	145828.65	5.041	300.8	5.48	13C5-PFHxA	275357.38	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.49	8404.19	4.932	247.4	5.48	13C5-PFHxA	275357.38	10.000	PFHxA	0.058	0.059	✓
PFHpA_1	363.1 / 319.0	6.21	123253.37	2.245	226.7	6.19	13C4-PFHpA	547504.50	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	2396.94	2.063	6035.1	6.19	13C4-PFHpA	547504.50	10.000	PFHpA	0.019	0.021	✓
PFOA_1	413.0 / 369.0	6.74	897703.64	16.428	472.9	6.73	13C8-PFOA	608523.57	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.71	85621.51	14.154	539.8	6.73	13C8-PFOA	608523.57	10.000	PFOA	0.095	0.111	✓
PFNA_1	463.0 / 419.0	7.19	26986.00	0.952	159.1	7.17	13C9-PFNA	265605.43	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	12811.18	0.848	248.8	7.17	13C9-PFNA	265605.43	5.000	PFNA	0.475	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	231418.54	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	231418.54	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	81161.05	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	81161.05	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	169523.33	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	169523.33	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	54312.05	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	54312.05	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	54312.05	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	54312.05	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.37	124766.66	5.153	545.1	5.36	13C3-PFBS	474150.72	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	52707.06	5.255	641.5	5.36	13C3-PFBS	474150.72	9.320	PFBS	0.422	0.416	✓
PFPeS_1	349.1 / 79.9	6.21	68449.12	2.267	269.9	6.79	13C3-PFHxS	551839.79	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	30863.39	2.440	408.1	6.79	13C3-PFHxS	551839.79	9.480	PFPeS	0.451	0.418	✓
PFHxS_1	398.7 / 79.9	6.79	897445.07	17.898	1411.8	6.79	13C3-PFHxS	551839.79	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	310066.20	17.887	1189.6	6.79	13C3-PFHxS	551839.79	9.480	PFHxS	0.346	0.345	✓
PFHpS_1	449.0 / 79.9	7.28	39463.60	0.719	166.6	7.70	13C8-PFOS	391313.89	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.28	13740.76	0.847	304.6	7.70	13C8-PFOS	391313.89	9.580	PFHpS	0.348	0.296	✓
PFOS_1	498.9 / 79.9	7.71	1831340.68	34.618	806.0	7.70	13C8-PFOS	391313.89	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	327640.11	30.477	961.0	7.70	13C8-PFOS	391313.89	9.580	PFOS	0.179	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	391313.89	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	378610.89	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	378610.89	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.56	3575.20	0.120	721.9	6.55	13C2-6:2FTS	192682.68	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.57	1674.38	0.150	25.4	6.55	13C2-6:2FTS	192682.68	19.020	6:2FTS	0.468	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	38491.64	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	38491.64	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	276285.63	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	276285.63	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	73470.49	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	73470.49	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	70420.26	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	70420.26	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	152365.45	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	152365.45	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	123600.13	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	123600.13	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	602420.39	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	552041.94	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	482612.68	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297310.56	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297310.56	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275357.38	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297310.56	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297310.56	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MC66 IB	**Injection Vial**	24
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 3:11:13 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.93	13C4-PFBA	982973.65	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	371307.19	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	PFHxA	N/A	0.059	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	748809.56	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	748809.56	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	843325.94	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	843325.94	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	356859.65	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	356859.65	1.250	PFNA	N/A	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	319573.17	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	319573.17	1.250	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	121730.43	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	121730.43	1.250	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	277534.42	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	277534.42	1.250	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	139262.96	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	139262.96	1.250	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	139262.96	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	139262.96	1.250	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	660611.44	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	660611.44	2.330	PFBS	N/A	0.416	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	739549.54	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	739549.54	2.370	PFPeS	N/A	0.418	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	739549.54	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.80	13C3-PFHxS	739549.54	2.370	PFHxS	N/A	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFOS	N/A	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	542454.00	2.395	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	551863.46	4.690	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	551863.46	4.690	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	235838.45	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	235838.45	4.755	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	62056.53	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	62056.53	4.800	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	384192.23	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	384192.23	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	130493.77	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	130493.77	2.500	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	150356.36	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	150356.36	2.500	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	230210.56	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	230210.56	5.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	176420.30	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	176420.30	5.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	1160967.84	24.999		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	1272525.85	24.999		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	667163.17	10.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	371307.19	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	371307.19	5.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	400314.96	2.500	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	371307.19	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	371307.19	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2673-FS(0)	**Injection Vial**	25
Sample ID	WGNA-SW-48-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 3:33:59 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	26318.30	1.367	198.7	1.93	13C4-PFBA	702528.60	40.000				
PFPeA	263.0 / 219.0	4.41	24491.87	1.131	114.7	4.40	13C5-PFPeA	297071.44	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.48	42835.02	1.420	137.7	5.47	13C5-PFHxA	287115.42	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.48	3405.79	1.917	127.5	5.47	13C5-PFHxA	287115.42	10.000	PFHxA	0.080	0.059	✓
PFHpA_1	363.1 / 319.0	6.20	48213.05	0.894	141.9	6.19	13C4-PFHpA	538059.13	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.19	685.09	0.600	9634.6	6.19	13C4-PFHpA	538059.13	10.000	PFHpA	0.014	0.021	✓
PFOA_1	413.0 / 369.0	6.73	216387.54	3.818	352.0	6.72	13C8-PFOA	631117.14	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	19174.62	3.056	339.9	6.72	13C8-PFOA	631117.14	10.000	PFOA	0.089	0.111	✓
PFNA_1	463.0 / 419.0	7.18	24001.17	0.795	147.6	7.17	13C9-PFNA	282602.42	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.17	8348.57	0.519	167.8	7.17	13C9-PFNA	282602.42	5.000	PFNA	0.348	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	229346.90	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	229346.90	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	94094.22	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	94094.22	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	173335.03	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	173335.03	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	47704.17	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	47704.17	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	47704.17	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	47704.17	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.37	72902.20	2.764	506.9	5.36	13C3-PFBS	516452.42	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	33512.95	3.068	542.6	5.36	13C3-PFBS	516452.42	9.320	PFBS	0.460	0.416	✓
PFPeS_1	349.1 / 79.9	6.20	5421.49	0.168	83.6	6.78	13C3-PFHxS	588627.22	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	2714.40	0.201	79.4	6.78	13C3-PFHxS	588627.22	9.480	PFPeS	0.501	0.418	✓
PFHxS_1	398.7 / 79.9	6.79	55569.20	1.039	355.3	6.78	13C3-PFHxS	588627.22	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	17083.89	0.924	246.5	6.78	13C3-PFHxS	588627.22	9.480	PFHxS	0.307	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	7.61	137185.19	2.495	111.2	7.69	13C8-PFOS	406776.87	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.69	19366.13	1.733	159.8	7.69	13C8-PFOS	406776.87	9.580	PFOS	0.141	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	406776.87	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	429173.82	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	429173.82	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	195871.14	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	195871.14	19.020	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	50798.60	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	50798.60	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	274656.86	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	274656.86	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	83116.22	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	83116.22	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	83635.06	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	83635.06	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	173244.95	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	173244.95	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	125213.72	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	125213.72	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	669304.60	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	568633.33	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	519736.26	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297071.44	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297071.44	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	287115.42	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297071.44	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	297071.44	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2674-FS(0)	**Injection Vial**	26
Sample ID	WGNA-SW-46-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 3:56:48 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	179095.96	9.275	267.7	1.94	13C4-PFBA	704776.49	40.000				
PFPeA	263.0 / 219.0	4.40	385462.73	18.756	450.9	4.39	13C5-PFPeA	281996.98	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.47	603963.37	20.383	503.4	5.46	13C5-PFHxA	282042.65	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.47	35611.82	20.402	748.9	5.46	13C5-PFHxA	282042.65	10.000	PFHxA	0.059	0.059	✓
PFHpA_1	363.1 / 319.0	6.19	365529.11	6.951	454.0	6.18	13C4-PFHpA	524389.98	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.19	8652.11	7.776	741.4	6.18	13C4-PFHpA	524389.98	10.000	PFHpA	0.024	0.021	✓
PFOA_1	413.0 / 369.0	6.72	4154051.96	80.735	1229.0	6.71	13C8-PFOA	572982.27	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.70	392027.67	68.826	1357.9	6.71	13C8-PFOA	572982.27	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.17	70101.08	2.277	378.5	7.16	13C9-PFNA	288269.40	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.17	33484.31	2.041	792.3	7.16	13C9-PFNA	288269.40	5.000	PFNA	0.478	0.533	✓
PFDA_1	512.9 / 469.0	7.59	17003.74	0.493	133.2	7.57	13C6-PFDA	250303.60	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.58	809.21	0.434	820.7	7.57	13C6-PFDA	250303.60	5.000	PFDA	0.048	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	90381.93	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	90381.93	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	155937.97	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	155937.97	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	48926.87	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	48926.87	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	48926.87	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	48926.87	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.35	293171.30	11.798	834.4	5.34	13C3-PFBS	486639.54	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.35	128769.06	12.510	1267.9	5.34	13C3-PFBS	486639.54	9.320	PFBS	0.439	0.416	✓
PFPeS_1	349.1 / 79.9	6.19	351766.28	11.267	696.5	6.77	13C3-PFHxS	570668.29	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.19	160697.20	12.287	846.1	6.77	13C3-PFHxS	570668.29	9.480	PFPeS	0.457	0.418	✓
PFHxS_1	398.7 / 79.9	6.78	4915650.60	94.798	2260.6	6.77	13C3-PFHxS	570668.29	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.78	1582003.86	88.252	3058.6	6.77	13C3-PFHxS	570668.29	9.480	PFHxS	0.322	0.345	✓
PFHpS_1	449.0 / 79.9	7.26	236652.65	3.985	496.3	7.68	13C8-PFOS	423262.28	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.26	70537.90	4.020	980.7	7.68	13C8-PFOS	423262.28	9.580	PFHpS	0.298	0.296	✓
PFOS_1	498.9 / 79.9	7.69	13102897.67	228.988	1330.5	7.68	13C8-PFOS	423262.28	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.69	2467423.94	212.192	2003.9	7.68	13C8-PFOS	423262.28	9.580	PFOS	0.188	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	423262.28	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	351376.90	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	351376.90	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.54	21616.81	0.819	582.8	6.54	13C2-6:2FTS	171092.34	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.55	6060.37	0.611	103.1	6.54	13C2-6:2FTS	171092.34	19.020	6:2FTS	0.280	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	33186.70	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	33186.70	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	259826.01	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	259826.01	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	69490.57	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	69490.57	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	70147.58	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	70147.58	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	139036.81	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	139036.81	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	114030.29	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	114030.29	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	612160.34	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	543202.42	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	461777.46	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	281996.98	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	281996.98	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	282042.65	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	281996.98	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	281996.98	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2675-FS(0)	**Injection Vial**	27
Sample ID	WGNA-SW-45-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 4:19:36 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	234431.18	11.581	450.4	1.94	13C4-PFBA	738883.43	40.000				
PFPeA	263.0 / 219.0	4.42	469791.60	23.036	521.7	4.41	13C5-PFPeA	279825.33	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.50	617236.63	21.329	409.9	5.48	13C5-PFHxA	275463.56	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.50	35611.29	20.889	594.7	5.48	13C5-PFHxA	275463.56	10.000	PFHxA	0.058	0.059	✓
PFHpA_1	363.1 / 319.0	6.21	315464.63	5.926	385.8	6.20	13C4-PFHpA	530840.35	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	6950.36	6.171	1998.3	6.20	13C4-PFHpA	530840.35	10.000	PFHpA	0.022	0.021	✓
PFOA_1	413.0 / 369.0	6.74	4425063.23	75.109	1063.6	6.73	13C8-PFOA	656079.10	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	407509.81	62.483	833.6	6.73	13C8-PFOA	656079.10	10.000	PFOA	0.092	0.111	✓
PFNA_1	463.0 / 419.0	7.19	66364.84	2.235	377.6	7.18	13C9-PFNA	278076.77	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	31246.33	1.975	522.9	7.18	13C9-PFNA	278076.77	5.000	PFNA	0.471	0.533	✓
PFDA_1	512.9 / 469.0	7.60	17609.78	0.527	160.4	7.59	13C6-PFDA	242390.24	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.60	573.74	0.318	1987.4	7.59	13C6-PFDA	242390.24	5.000	PFDA	0.033	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86742.45	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86742.45	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	163928.95	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	163928.95	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	59852.84	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	59852.84	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	59852.84	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	59852.84	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.38	231340.54	8.755	735.6	5.37	13C3-PFBS	517466.45	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.38	99404.25	9.082	893.4	5.37	13C3-PFBS	517466.45	9.320	PFBS	0.430	0.416	✓
PFPeS_1	349.1 / 79.9	6.22	306210.88	9.400	636.4	6.79	13C3-PFHxS	595453.57	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.22	131634.24	9.646	657.8	6.79	13C3-PFHxS	595453.57	9.480	PFPeS	0.430	0.418	✓
PFHxS_1	398.7 / 79.9	6.80	4184006.91	77.330	1522.9	6.79	13C3-PFHxS	595453.57	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.80	1303250.68	69.676	1627.7	6.79	13C3-PFHxS	595453.57	9.480	PFHxS	0.312	0.345	✓
PFHpS_1	449.0 / 79.9	7.28	250265.44	3.888	560.0	7.70	13C8-PFOS	458761.94	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.28	78928.97	4.150	805.4	7.70	13C8-PFOS	458761.94	9.580	PFHpS	0.315	0.296	✓
PFOS_1	498.9 / 79.9	7.71	16789138.33	270.705	1283.2	7.70	13C8-PFOS	458761.94	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	3161060.72	250.808	1793.9	7.70	13C8-PFOS	458761.94	9.580	PFOS	0.188	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	458761.94	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	405860.03	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	405860.03	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.57	41692.93	1.427	808.1	6.56	13C2-6:2FTS	189431.29	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.57	15014.94	1.367	205.1	6.56	13C2-6:2FTS	189431.29	19.020	6:2FTS	0.360	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	48746.45	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	48746.45	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	265554.24	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	265554.24	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	66664.40	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	66664.40	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	64324.39	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	64324.39	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	165860.74	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	165860.74	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	118257.86	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	118257.86	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	573415.73	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	507840.39	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	466806.73	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279825.33	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279825.33	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	275463.56	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279825.33	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.81	1622.59	0.091	45.3	4.41	13C5-PFPeA	279825.33	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2676-FS(0)	**Injection Vial**	28
Sample ID	WGNA-SW-49-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 4:42:22 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	302226.22	17.418	395.1	1.95	13C4-PFBA	633327.16	40.000				
PFPeA	263.0 / 219.0	4.41	774132.15	35.435	380.2	4.40	13C5-PFPeA	299758.75	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.48	1880371.04	64.245	663.3	5.47	13C5-PFHxA	278597.41	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.48	111989.85	64.951	791.9	5.47	13C5-PFHxA	278597.41	10.000	PFHxA	0.060	0.059	✓
PFHpA_1	363.1 / 319.0	6.20	962692.53	18.627	466.3	6.19	13C4-PFHpA	515393.95	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.20	24190.91	22.121	458.9	6.19	13C4-PFHpA	515393.95	10.000	PFHpA	0.025	0.021	✓
PFOA_1	413.0 / 369.0	6.73	9410327.00	168.837	1298.7	6.72	13C8-PFOA	620680.10	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	836680.05	135.603	1175.9	6.72	13C8-PFOA	620680.10	10.000	PFOA	0.089	0.111	✓
PFNA_1	463.0 / 419.0	7.18	221083.33	7.651	608.4	7.17	13C9-PFNA	270613.42	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.18	85448.04	5.549	781.7	7.17	13C9-PFNA	270613.42	5.000	PFNA	0.387	0.533	✓
PFDA_1	512.9 / 469.0	7.59	39828.14	0.972	237.2	7.58	13C6-PFDA	297311.79	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.58	1771.71	0.799	870.4	7.58	13C6-PFDA	297311.79	5.000	PFDA	0.045	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	93464.47	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	93464.47	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	173742.12	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	173742.12	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	52320.78	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	52320.78	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	52320.78	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	52320.78	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.37	1469752.05	57.814	1143.7	5.36	13C3-PFBS	497839.71	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	672637.02	63.874	1864.8	5.36	13C3-PFBS	497839.71	9.320	PFBS	0.458	0.416	✓
PFPeS_1	349.1 / 79.9	6.21	2427138.85	77.762	1082.0	6.78	13C3-PFHxS	570515.65	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	974355.38	74.521	1341.2	6.78	13C3-PFHxS	570515.65	9.480	PFPeS	0.401	0.418	✓
PFHxS_1	398.7 / 79.9	6.79	29833011.69	575.483	2320.7	6.78	13C3-PFHxS	570515.65	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	9391787.46	524.060	2432.7	6.78	13C3-PFHxS	570515.65	9.480	PFHxS	0.315	0.345	✓
PFHpS_1	449.0 / 79.9	7.28	1153309.20	18.811	754.9	7.69	13C8-PFOS	436977.02	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.27	357100.63	19.712	1044.7	7.69	13C8-PFOS	436977.02	9.580	PFHpS	0.310	0.296	✓
PFOS_1	498.9 / 79.9	7.70	62050959.03	1050.378	1216.9	7.69	13C8-PFOS	436977.02	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.70	11788579.95	981.970	2161.3	7.69	13C8-PFOS	436977.02	9.580	PFOS	0.190	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	436977.02	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	452381.09	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	452381.09	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.56	126984.39	3.564	1288.4	6.55	13C2-6:2FTS	230991.89	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.56	46371.91	3.462	326.5	6.55	13C2-6:2FTS	230991.89	19.020	6:2FTS	0.365	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	52852.44	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	52852.44	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	276252.35	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.02	13C8-PFOSA	276252.35	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	85028.17	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	85028.17	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	89671.21	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	89671.21	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	175460.12	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	175460.12	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	129792.71	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	129792.71	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.05	D7-MeFOSE	675111.06	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.34	D9-EtFOSE	583426.85	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	498536.85	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	299758.75	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	299758.75	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	278597.41	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	299758.75	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.80	1230.65	0.064	32.2	4.40	13C5-PFPeA	299758.75	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2677-FS(0)	**Injection Vial**	29
Sample ID	WGNA-SW-54-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 5:05:10 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	335790.98	17.420	482.2	1.95	13C4-PFBA	703568.06	40.000				
PFPeA	263.0 / 219.0	4.44	771858.74	39.019	433.4	4.42	13C5-PFPeA	271426.01	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	1760118.03	70.326	611.3	5.50	13C5-PFHxA	238230.73	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	108188.36	73.378	1046.5	5.50	13C5-PFHxA	238230.73	10.000	PFHxA	0.062	0.059	✓
PFHpA_1	363.1 / 319.0	6.24	1057418.47	20.874	444.4	6.22	13C4-PFHpA	505174.43	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	25286.12	23.591	521.9	6.22	13C4-PFHpA	505174.43	10.000	PFHpA	0.024	0.021	✓
PFOA_1	413.0 / 369.0	6.76	9025093.07	171.239	1125.1	6.75	13C8-PFOA	586920.50	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.75	846049.87	145.009	1075.4	6.75	13C8-PFOA	586920.50	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.21	196489.39	7.301	520.2	7.20	13C9-PFNA	252061.96	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	91256.53	6.362	1204.2	7.20	13C9-PFNA	252061.96	5.000	PFNA	0.464	0.533	✓
PFDA_1	512.9 / 469.0	7.62	37514.43	1.031	239.7	7.61	13C6-PFDA	263952.52	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.62	1722.98	0.876	601.0	7.61	13C6-PFDA	263952.52	5.000	PFDA	0.046	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	80182.79	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	80182.79	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	176464.70	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	176464.70	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57383.43	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57383.43	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57383.43	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57383.43	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.39	1589404.41	70.531	1329.4	5.39	13C3-PFBS	441297.24	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	686047.23	73.495	1880.8	5.39	13C3-PFBS	441297.24	9.320	PFBS	0.432	0.416	✓
PFPeS_1	349.1 / 79.9	6.24	2336306.02	84.406	1264.3	6.81	13C3-PFHxS	505936.60	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	1041292.13	89.806	1451.5	6.81	13C3-PFHxS	505936.60	9.480	PFPeS	0.446	0.418	✓
PFHxS_1	398.7 / 79.9	6.82	29081919.41	632.601	2219.6	6.81	13C3-PFHxS	505936.60	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	9248508.21	581.937	2606.8	6.81	13C3-PFHxS	505936.60	9.480	PFHxS	0.318	0.345	✓
PFHpS_1	449.0 / 79.9	7.30	1208726.26	20.766	911.7	7.72	13C8-PFOS	414843.94	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	362519.15	21.079	1374.3	7.72	13C8-PFOS	414843.94	9.580	PFHpS	0.300	0.296	✓
PFOS_1	498.9 / 79.9	7.73	64192677.86	1144.607	1403.1	7.72	13C8-PFOS	414843.94	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	12359222.85	1084.431	2062.0	7.72	13C8-PFOS	414843.94	9.580	PFOS	0.193	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	414843.94	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	377656.38	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	377656.38	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.59	192196.87	6.758	1605.1	6.58	13C2-6:2FTS	184344.51	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	78974.61	7.388	427.7	6.58	13C2-6:2FTS	184344.51	19.020	6:2FTS	0.411	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	39686.92	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	39686.92	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	246481.71	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	246481.71	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	72926.49	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	72926.49	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69495.35	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69495.35	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	168789.06	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	168789.06	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	111596.90	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	111596.90	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	608477.20	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	532793.20	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	485810.97	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	271426.01	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	271426.01	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	238230.73	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	271426.01	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.83	1045.15	0.060	39.4	4.42	13C5-PFPeA	271426.01	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2678-FS(0)	**Injection Vial**	30
Sample ID	WGNA-SW-DUP-01-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 5:27:58 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	57073.64	2.754	296.0	1.96	13C4-PFBA	756411.15	40.000				
PFPeA	263.0 / 219.0	4.43	79429.97	3.551	241.9	4.42	13C5-PFPeA	306895.34	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	114261.20	3.917	261.5	5.50	13C5-PFHxA	277630.35	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	6024.35	3.506	239.0	5.50	13C5-PFHxA	277630.35	10.000	PFHxA	0.053	0.059	✓
PFHpA_1	363.1 / 319.0	6.23	106702.58	1.886	201.4	6.22	13C4-PFHpA	564250.71	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	1785.52	1.491	183.1	6.22	13C4-PFHpA	564250.71	10.000	PFHpA	0.017	0.021	✓
PFOA_1	413.0 / 369.0	6.75	695425.68	10.900	496.2	6.74	13C8-PFOA	710471.10	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.74	59935.07	8.486	580.7	6.74	13C8-PFOA	710471.10	10.000	PFOA	0.086	0.111	✓
PFNA_1	463.0 / 419.0	7.21	30147.61	1.044	125.1	7.19	13C9-PFNA	270437.80	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	11260.45	0.732	303.1	7.19	13C9-PFNA	270437.80	5.000	PFNA	0.374	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	259591.01	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	259591.01	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	92330.70	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	92330.70	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	174404.24	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	174404.24	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57164.69	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57164.69	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57164.69	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	57164.69	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.39	111709.39	4.252	525.3	5.38	13C3-PFBS	514544.05	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	49487.88	4.547	637.9	5.38	13C3-PFBS	514544.05	9.320	PFBS	0.443	0.416	✓
PFPeS_1	349.1 / 79.9	6.23	55604.46	1.673	275.1	6.81	13C3-PFHxS	607378.67	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	21343.57	1.533	227.5	6.81	13C3-PFHxS	607378.67	9.480	PFPeS	0.384	0.418	✓
PFHxS_1	398.7 / 79.9	6.82	650479.17	11.786	907.4	6.81	13C3-PFHxS	607378.67	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	213054.82	11.167	980.8	6.81	13C3-PFHxS	607378.67	9.480	PFHxS	0.328	0.345	✓
PFHpS_1	449.0 / 79.9	7.30	29574.07	0.459	171.6	7.72	13C8-PFOS	458975.89	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	9776.77	0.514	205.7	7.72	13C8-PFOS	458975.89	9.580	PFHpS	0.331	0.296	✓
PFOS_1	498.9 / 79.9	7.72	1331666.95	21.462	580.1	7.72	13C8-PFOS	458975.89	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	244157.73	19.363	874.0	7.72	13C8-PFOS	458975.89	9.580	PFOS	0.183	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	458975.89	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	389504.52	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	389504.52	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	187204.79	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	187204.79	19.020	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	46719.40	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	46719.40	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	285857.08	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	285857.08	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	80505.08	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	80505.08	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	77981.58	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	77981.58	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	162761.80	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	162761.80	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	148090.71	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	148090.71	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	692667.72	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	604991.17	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	525147.46	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	306895.34	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	306895.34	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	277630.35	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	306895.34	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	306895.34	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MC66 IB	**Injection Vial**	33
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 6:36:19 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.94	13C4-PFBA	989657.87	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	360061.76	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	PFHxA	N/A	0.059	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.18	13C4-PFHpA	738416.45	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.18	13C4-PFHpA	738416.45	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.71	13C8-PFOA	894332.21	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.71	13C8-PFOA	894332.21	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.16	13C9-PFNA	411392.95	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.16	13C9-PFNA	411392.95	1.250	PFNA	N/A	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.57	13C6-PFDA	316321.91	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.57	13C6-PFDA	316321.91	1.250	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.95	13C7-PFUnA	129927.93	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.95	13C7-PFUnA	129927.93	1.250	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	251954.74	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	251954.74	1.250	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	138807.17	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	138807.17	1.250	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	138807.17	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	138807.17	1.250	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	680792.32	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	680792.32	2.330	PFBS	N/A	0.416	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	783342.81	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	783342.81	2.370	PFPeS	N/A	0.418	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	783342.81	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	783342.81	2.370	PFHxS	N/A	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFOS	N/A	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	533087.81	2.395	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	514455.61	4.690	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	514455.61	4.690	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.54	13C2-6:2FTS	230293.41	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.54	13C2-6:2FTS	230293.41	4.755	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	54858.95	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	54858.95	4.800	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.01	13C8-PFOSA	366480.61	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.01	13C8-PFOSA	366480.61	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	132432.81	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	132432.81	2.500	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	154462.87	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	154462.87	2.500	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.60	d3-MeFOSAA	238063.87	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.60	d3-MeFOSAA	238063.87	5.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	193924.79	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	193924.79	5.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.05	D7-MeFOSE	1136341.69	24.999		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	1327838.37	24.999		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	721083.80	10.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	360061.76	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	360061.76	5.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	414367.89	2.500	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	360061.76	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	360061.76	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2676-FS-D(3)	**Injection Vial**	43
Sample ID	WGNA-SW-49-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 12:12:48 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.94	13C4-PFBA	138732.96	8.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	65171.65	4.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	PFHxA	N/A	0.059	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.18	13C4-PFHpA	113035.67	2.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.18	13C4-PFHpA	113035.67	2.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.71	13C8-PFOA	132145.31	2.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.71	13C8-PFOA	132145.31	2.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.16	13C9-PFNA	61932.65	1.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.16	13C9-PFNA	61932.65	1.000	PFNA	N/A	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.57	13C6-PFDA	55182.84	1.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.57	13C6-PFDA	55182.84	1.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	20438.68	1.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	20438.68	1.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	39841.16	1.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	39841.16	1.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	10269.72	1.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	10269.72	1.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	10269.72	1.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	10269.72	1.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	107743.95	1.864	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	107743.95	1.864	PFBS	N/A	0.416	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	134490.03	1.896	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.77	13C3-PFHxS	134490.03	1.896	PFPeS	N/A	0.418	✓
PFHxS_1	398.7 / 79.9	6.78	7087374.26	115.992	2192.6	6.77	13C3-PFHxS	134490.03	1.896	PFHxS			
PFHxS_2	398.7 / 98.9	6.78	2293019.38	108.555	2485.5	6.77	13C3-PFHxS	134490.03	1.896	PFHxS	0.324	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	7.69	13108021.24	192.271	1255.1	7.68	13C8-PFOS	100857.93	1.916	PFOS			
PFOS_2	498.9 / 98.9	7.69	2550657.33	184.106	1959.9	7.68	13C8-PFOS	100857.93	1.916	PFOS	0.195	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	100857.93	1.916	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	99457.59	3.752	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	99457.59	3.752	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.54	13C2-6:2FTS	47438.71	3.804	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.54	13C2-6:2FTS	47438.71	3.804	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	12499.64	3.840	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	12499.64	3.840	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	58979.75	2.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	58979.75	2.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	18963.73	2.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	18963.73	2.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	19102.16	2.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	19102.16	2.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	40045.59	4.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	40045.59	4.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	26939.48	4.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	26939.48	4.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	143379.16	20.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	125741.93	20.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	104988.80	8.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	65171.65	4.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	65171.65	4.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.46	13C5-PFHxA	70444.62	2.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	65171.65	4.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	65171.65	4.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2677-FS-D(3)	**Injection Vial**	44
Sample ID	WGNA-SW-54-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 12:35:36 PM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.92	13C4-PFBA	136352.46	8.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	54798.02	4.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	PFHxA	N/A	0.059	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.19	13C4-PFHpA	103421.26	2.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.19	13C4-PFHpA	103421.26	2.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.72	13C8-PFOA	117362.72	2.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.72	13C8-PFOA	117362.72	2.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.17	13C9-PFNA	58675.09	1.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.17	13C9-PFNA	58675.09	1.000	PFNA	N/A	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	56569.51	1.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	56569.51	1.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	20894.30	1.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	20894.30	1.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	34130.29	1.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	34130.29	1.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	12407.01	1.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	12407.01	1.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	12407.01	1.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	12407.01	1.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	99118.55	1.864	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.35	13C3-PFBS	99118.55	1.864	PFBS	N/A	0.416	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	111716.95	1.896	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	111716.95	1.896	PFPeS	N/A	0.418	✓
PFHxS_1	398.7 / 79.9	6.79	6772548.43	133.434	2195.4	6.78	13C3-PFHxS	111716.95	1.896	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	2203389.82	125.575	1894.0	6.78	13C3-PFHxS	111716.95	1.896	PFHxS	0.325	0.345	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFHpS	N/A	0.296	✓
PFOS_1	498.9 / 79.9	7.70	13077196.36	224.691	1155.7	7.69	13C8-PFOS	86102.33	1.916	PFOS			
PFOS_2	498.9 / 98.9	7.70	2523537.18	213.364	1539.4	7.69	13C8-PFOS	86102.33	1.916	PFOS	0.193	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	86102.33	1.916	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	86749.25	3.752	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	86749.25	3.752	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	35296.68	3.804	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	35296.68	3.804	6:2FTS	N/A	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	11844.29	3.840	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	11844.29	3.840	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	54051.02	2.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	54051.02	2.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	16165.52	2.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	16165.52	2.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	14854.95	2.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	14854.95	2.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	38082.66	4.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	38082.66	4.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	25462.68	4.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	25462.68	4.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	126027.56	20.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	110275.58	20.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	89457.00	8.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	54798.02	4.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	54798.02	4.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	56243.53	2.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	54798.02	4.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	54798.02	4.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

NASJRB WILLOW GROVE
SDG 24-0204

PFAS Concentration = $[(PA - b)/m] * C_{IS} * DF/S$

Where:

PA	Area of target analyte/ area of internal standard
b	y Intercept from calibration curve
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
DF	Dilution factor
S	Sample Size

Target Analyte	PENTADECAFLUOROOCTANOIC ACID (PFOA)
Sample ID	WGNA-SW-NCREF4-20240318
Laboratory Sample ID	C1841-FS
Sample Size (L)	0.49
Dilution Factor	1
PFOA Area	299922.14
IS Area	652463.57
IS Amount (ng/L)	10
Calibration Curve	y = 0.89799 x
Concentration (ng/L)	10.45
Reported Result (ng/L)	10.4

(((299922.14/652463.57))/0.89799)*10.000*1/0.49

NASJRB WILLOW GROVE
SDG 24-0204

Surrogate Concentration = $[(PA)/m] * C_{IS}$

Where:

PA	Area of target analyte/ area of internal standard
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
Surrogate spike amount	10

Surrogate	13C8-PFOA
Sample ID	WGNA-SW-NCREF4-20240318
Laboratory Sample ID	C1841-FS
13C8-PFOA Area	652463.57
IS Area	573832.94
IS Amount (ng)	10
Calibration Curve	y = 1.28809 x
Concentration (ng/g)	8.83
Calculation	((652463.57/57832.94)/1.28809)*10.00

Sample Size	0.49	L
Final Concentration	18.01	ng/L
Spike Concentration	10	ng
Sample Spike Concentration	20.41	ng/L
Calculated Surrogate %R	(18.01/20.41)*100	88.2723289
Reported Surrogate %R	88	

NASJRB WILLOW GROVE
SDG 24-0204

LABORATORY CONTROL SAMPLE

	Result (ng/L)	Target (ng/L)	Calculation	Recovery	Reported Recovery	QC Limits
PFOA	30.1	20.3	(30.1/20.3)*100	148.2758621	148	70-145

ICC RECOVERY (%)	Result	Target	Calculation	Recovery	Reported Recovery
PFOA	5.883	5	5.883/5.000*100	117.66	117.66

ION RATIO RECOVERY (%)	Result	Target	Calculation	Recovery	QC Limits
WGNA-SW-NCREF4-20240318					
PFHxA	0.093	0.111	0.093/0.111*100	83.78378378	50 - 150

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PFAS Sample Quant Report

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Sample Name	C2670-FS(0)	**Injection Vial**	19
Sample ID	WGNA-SW-NCREF4-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:17:16 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	34121.21	2.307	186.0	1.94	13C4-PFBA	539843.96	40.000				
PFPeA	263.0 / 219.0	4.42	68121.57	3.105	170.4	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	110031.70	3.598	200.0	5.50	13C5-PFHxA	291083.94	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.50	5822.44	3.232	157.8	5.50	13C5-PFHxA	291083.94	10.000	PFHxA	0.053	0.059	✓
PFHpA_1	363.1 / 319.0	6.23	82160.76	1.530	217.8	6.22	13C4-PFHpA	535562.27	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	2170.65	1.910	89.7	6.22	13C4-PFHpA	535562.27	10.000	PFHpA	0.026	0.021	✓
PFOA_1	413.0 / 369.0	6.76	299922.14	5.119	457.3	6.75	13C8-PFOA	652463.57	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	27815.58	4.289	544.7	6.75	13C8-PFOA	652463.57	10.000	PFOA	0.093	0.111	✓
PFNA_1	463.0 / 419.0	7.21	23993.94	0.824	114.0	7.20	13C9-PFNA	272709.19	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	10363.59	0.668	237.5	7.20	13C9-PFNA	272709.19	5.000	PFNA	0.432	0.533	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	247238.29	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	247238.29	5.000	PFDA	N/A	0.054	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	89345.21	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	89345.21	5.000	PFUnA	N/A	0.050	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	164453.43	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	164453.43	5.000	PFDoA	N/A	0.319	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTrDA	N/A	0.057	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	45682.49	5.000	PFTeDA	N/A	0.055	✓
PFBS_1	298.7 / 79.9	5.39	64002.13	2.731	312.8	5.38	13C3-PFBS	458889.35	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	28397.19	2.926	313.5	5.38	13C3-PFBS	458889.35	9.320	PFBS	0.444	0.416	✓
PFPeS_1	349.1 / 79.9	6.24	15972.98	0.493	109.3	6.81	13C3-PFHxS	591693.75	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	5958.23	0.439	97.0	6.81	13C3-PFHxS	591693.75	9.480	PFPeS	0.373	0.418	✓
PFHxS_1	398.7 / 79.9	6.82	213114.15	3.964	507.2	6.81	13C3-PFHxS	591693.75	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	67245.97	3.618	423.3	6.81	13C3-PFHxS	591693.75	9.480	PFHxS	0.316	0.345	✓
PFHpS_1	449.0 / 79.9	7.30	9612.76	0.167	69.3	7.71	13C8-PFOS	409040.77	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	2337.15	0.138	57.2	7.71	13C8-PFOS	409040.77	9.580	PFHpS	0.243	0.296	✓
PFOS_1	498.9 / 79.9	7.70	412101.09	7.452	335.5	7.71	13C8-PFOS	409040.77	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	69021.40	6.142	409.5	7.71	13C8-PFOS	409040.77	9.580	PFOS	0.168	0.203	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFNS	N/A	0.224	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDS	N/A	0.269	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	409040.77	9.580	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	409416.48	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	409416.48	18.760	4:2FTS	N/A	2.941	✓
6:2FTS_1	427.1 / 407.0	6.59	10844.10	0.355	384.6	6.58	13C2-6:2FTS	197904.49	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	3367.86	0.293	50.8	6.58	13C2-6:2FTS	197904.49	19.020	6:2FTS	0.311	0.377	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	41419.35	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	41419.35	19.200	8:2FTS	N/A	0.106	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	280091.75	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	280091.75	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	85413.48	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	85413.48	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	94833.41	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	94833.41	10.000	NEtFOSA	N/A	0.920	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	174957.80	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	174957.80	20.000	NMeFOSAA	N/A	0.090	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	127013.03	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	127013.03	20.000	NEtFOSAA	N/A	1.519	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	645641.84	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.38	D9-EtFOSE	555222.10	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	HFPO-DA	N/A	0.164	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	ADONA	N/A	0.012	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	526204.37	40.000	11Cl-PF3OUdS	N/A	0.338	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000	3:3 FTCA	N/A	0.047	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	5:3 FTCA	N/A	0.438	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	7:3 FTCA	N/A	1.930	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	NFDHA	N/A	0.726	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	291083.94	10.000	PFEESA	N/A	0.047	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301022.43	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2670-FS(0)	**Injection Vial**	19
Sample ID	WGNA-SW-NCREF4-20240318	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/21/2024 1:17:16 AM	**Data File**	AG_03202024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0204_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	1.94	539843.96	25.860	1837.3	1.94	13C3-PFBA	478320.81	20.000				
13C5-PFPeA	268.3 / 223.0	4.41	301022.43	19.244	1878.9	5.50	13C2-PFHxA	234930.05	10.000		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.50	291083.94	9.102	1934.0	5.50	13C2-PFHxA	234930.05	10.000		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.22	535562.27	8.973	2320.7	5.50	13C2-PFHxA	234930.05	10.000		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	6.75	652463.57	8.827	3155.3	6.75	13C4-PFOA	573832.94	10.000		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.20	272709.19	4.540	3007.9	7.20	13C5-PFNA	316295.04	5.000		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	7.60	247238.29	4.600	2622.0	7.61	13C2-PFDA	212039.39	5.000		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	7.99	89345.21	4.402	3530.5	7.61	13C2-PFDA	212039.39	5.000		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.37	164453.43	3.933	2580.4	7.61	13C2-PFDA	212039.39	5.000		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.07	45682.49	2.090	2518.4	7.61	13C2-PFDA	212039.39	5.000		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.38	458889.35	8.244	430.5	6.81	18O2-PFHxS	135523.95	9.480		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	6.81	591693.75	8.718	795.6	6.81	18O2-PFHxS	135523.95	9.480		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	7.71	409040.77	9.032	830.5	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.29	409416.48	21.109	561.4	1.94	13C3-PFBA	478320.81	20.000		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	6.58	197904.49	22.161	669.3	6.81	18O2-PFHxS	135523.95	9.480		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.44	41419.35	19.035	351.2	6.81	18O2-PFHxS	135523.95	9.480		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.06	278560.69	8.958	1680.9	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.14	85413.48	8.211	898.4	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.47	94833.41	7.814	1056.0	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	7.64	174957.80	20.012	1762.0	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	7.78	127013.03	19.329	4428.5	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.08	645641.84	70.496	720.0	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.38	555222.10	54.238	769.4	7.72	13C4-PFOS	389521.26	9.580		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	5.76	526204.37	39.406	4042.1	5.50	13C2-PFHxA	234930.05	10.000		N/A	N/A	✓

TETRA TECH

INTERNAL CORRESPONDENCE

TO: **T. MOORE** **DATE:** **APRIL 1, 2024**

FROM: **GLORIA SCHIFINO** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –POLYFLUOROALKYL SUBSTANCES (PFAS)**
NAVAL AIR STATION JOINT RESERVE BASE (NASJRB) WILLOW GROVE
WILLOW GROVE, PENNSYLVANIA
SAMPLE DELIVERY GROUP (SDG) 24-0207

SAMPLES: 12/Aqueous/PFAS

WGNA-FB-20240319	WGNA-SW-19-20240319
WGNA-SW-20-20240319	WGNA-SW-30-20240319
WGNA-SW-33-20240319	WGNA-SW-34A-20240319
WGNA-SW-39A-20240319	WGNA-SW-36-20240319
WGNA-SW-42-20240319	WGNA-SW-41-20240319
	WGNA-SW-DUP-02-20240319

Overview

The sample set for NAS JRB Willow Grove, SDG 24-0207, consisted of eleven (11) aqueous samples and including one (1) field blank. All samples were analyzed for PFAS. One field duplicate pair was included in this SDG: WGNA-SW-DUP-02-20240319/ WGNA-SW-39A-20240319.

The samples were collected by Tetra Tech, Inc. on March 19, 2024 and analyzed by Battelle Norwell Operations. All sample analyses were conducted in accordance EPA Method 1633 analytical and reporting protocols.

The data contained in this SDG was validated via 90% EPA stage 2B and 10% stage 4 with regard to the following parameters: data completeness, sample preservation and holding times, mass calibration, LC/MS/MS system tuning and performance, mass spectral acquisition rate, instrument sensitivity check, ion transition check, initial/continuing calibrations, laboratory method/preparation and field blank results, extracted internal standard recoveries, laboratory control sample results, matrix spike/ matrix spike duplicate results, ion ratio results, field duplicate precision, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

Minor

Detected results reported below the Limit of Quantitation (LOQ) but above the Detection Limit (DL) were qualified as estimated, (J).

Notes

Non-detected results were reported to the Limit of Detection (LOD).

Sample WGNA-SW-36A-20240319 was not included in this SDG because the sample was re-extracted and was included in SDG 24-0220.

The result for perfluorooctanoic acid (PFOA) was checked and verified for sample WGNA-SW-36-20240319. The surrogate percent recovery for 13C8- PFOA was checked in this sample.

Executive Summary

Laboratory Performance: Extracted internal standard recoveries were low in sample WGNA-SW-36A-20240319 and it was re-extracted. The sample is not included in this SDG.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the Department of Defense (DOD) documents entitled “Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis be QSM Table B24” (October 18, 2022). The text of this report has been formulated to address only those areas affecting data quality.

Gloria Schifino

Tetra Tech, Inc.
Gloria Schifino
Chemist/Data Validator

Joseph A. Samchuck

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Validation Qualifier (VQL) Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UX	The sample results (non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.
X	The sample results (detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Tetra Tech Qualifier Code (QLCD) :

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc. > control limit)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery and/or MS/MSD RPD outside control limit
E	=	LCS/LCSD Recovery and/or LCS/LCSD RPD outside control limit
F	=	Lab Duplicate Imprecision (RPD > control limit)
G	=	Field Duplicate Imprecision (RPD > control limit)
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's r < 0.995
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient r < 0.995
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 standard deviations is greater than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed
Z3	=	Tentatively Identified Compound Aldol condensate

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240319			WGNA-SW-19-20240319			WGNA-SW-20-20240319			WGNA-SW-30-20240319		
SDG: 24-0207	LAB_ID	C2685-FS			C2695-FS			C2694-FS			C2693-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.21	U		2.06	U		2.06	U		2.13	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.94	U		2.74	U		2.74	U		2.84	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.35	U		3.12	U		3.11	U		3.23	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.39	U		3.16	U		3.15	U		3.27	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.41	U		1.31	U		1.31	U		1.36	U	
4:2 FLUOROTELOMER SULFONATE		2.68	U		2.5	U		2.49	U		2.58	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.05	U		8.43	U		8.42	U		8.73	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		3	U		9.15			9.08			2.9	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.6	U		9.87	U		9.85	U		10.2	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.86	U		1.73	U		1.73	U		1.79	U	
9CL-PF3ONS		1.42	U		1.32	U		1.32	U		1.37	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.52	U		1.41	U		1.41	U		1.46	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.202	U		0.189	U		0.188	U		0.195	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.16	U		1.08	U		1.08	U		1.12	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.404	U		0.376	U		0.375	U		0.389	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.33	U		1.24	U		1.24	U		1.28	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.54	U		1.44	U		1.43	U		1.49	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		0.588	U		18.1			19.7			8.01		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.43	U		0.401	U		0.4	U		0.415	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.27	U		1.19	U		1.18	U		1.23	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.22	U		1.13	U		1.13	U		1.17	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-33-20240319			WGNA-SW-34A-20240319			WGNA-SW-36-20240319			WGNA-SW-39A-20240319		
SDG: 24-0207	LAB_ID	C2692-FS			C2688-FS			C2687-FS			C2691-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.09	U		2.15	U		2.05	U		2.03	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.78	U		2.87	U		2.73	U		2.7	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.16	U		3.26	U		3.1	U		3.07	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.2	U		3.3	U		3.14	U		3.1	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.33	U		1.37	U		1.3	U		1.29	U	
4:2 FLUOROTELOMER SULFONATE		2.53	U		2.61	U		2.48	U		2.45	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		8.54	U		8.81	U		8.38	U		8.29	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		6.33			7.68			5.13	J	P	2.75	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10	U		10.3	U		9.81	U		9.7	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.75	U		1.81	U		1.72	U		1.7	U	
9CL-PF3ONS		1.34	U		1.38	U		1.31	U		1.3	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.43	U		1.48	U		1.41	U		1.39	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.191	U		0.197	U		0.188	U		0.186	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.09	U		1.13	U		1.07	U		1.06	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.381	U		0.393	U		0.374	U		0.37	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.25	U		1.29	U		1.23	U		1.22	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.46	U		1.5	U		1.43	U		1.41	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		16.7			23.8			18.3			73.1		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.406	U		0.419	U		0.398	U		0.394	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.2	U		1.24	U		1.18	U		1.17	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.15	U		1.19	U		1.13	U		1.12	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-41-20240319			WGNA-SW-42-20240319			WGNA-SW-DUP-02-20240319		
SDG: 24-0207	LAB_ID	C2690-FS			C2689-FS			C2696-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							WGNA-SW-39A-20240319		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.28	U		2.15	U		2.19	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		3.03	U		2.86	U		2.91	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.45	U		3.25	U		3.31	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.49	U		3.29	U		3.35	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.45	U		1.37	U		1.39	U	
4:2 FLUOROTELOMER SULFONATE		2.76	U		2.6	U		2.65	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.33	U		8.8	U		8.96	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		9.5			12.5			2.97	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.9	U		10.3	U		10.5	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.92	U		1.81	U		1.84	U	
9CL-PF3ONS		1.46	U		1.38	U		1.4	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.56	U		1.48	U		1.5	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.209	U		0.197	U		0.2	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.19	U		1.13	U		1.15	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.416	U		0.393	U		0.4	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.37	U		1.29	U		1.32	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.59	U		1.5	U		1.53	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		83.1			75.4			66.9		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.444	U		0.418	U		0.426	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.31	U		1.24	U		1.26	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.26	U		1.18	U		1.2	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240319			WGNA-SW-19-20240319			WGNA-SW-20-20240319			WGNA-SW-30-20240319		
SDG: 24-0207	LAB_ID	C2685-FS			C2695-FS			C2694-FS			C2693-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		0.359	U		9.96			10.7			5.84		
PERFLUOROBUTANOIC ACID (PFBA)		1.21	U		9.4			9.66			4.12	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.329	U		0.306	U		0.306	U		0.317	U	
PERFLUORODECANOIC ACID (PFDA)		0.452	U		0.497	J	P	0.421	U		0.436	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.365	U		0.34	U		0.34	U		0.352	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.611	U		0.569	U		0.568	U		0.589	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.414	U		1.82			1.72			0.399	U	
PERFLUOROHEPTANOIC ACID (PFHPA)		0.351	U		6.91			7.26			2.52		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		0.59	U		54			53.1			2.39		
PERFLUOROHEXANOIC ACID (PFHXA)		0.836	U		18			17.9			7.87		
PERFLUORONONANESULFONIC ACID (PFNS)		0.505	U		0.471	U		0.47	U		0.487	U	
PERFLUORONONANOIC ACID (PFNA)		0.507	U		2.52			2.89			1.64		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.381	U		0.355	U		0.355	U		0.368	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		0.503	U		92.4			91.8			6.74		
PERFLUOROPENTANESULFONIC ACID (PFPES)		0.262	U		7.15			6.97			0.35	J	P
PERFLUOROPENTANOIC ACID (PFPEA)		1.14	U		16.5			17.7			14.7		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.87	U		0.811	U		0.809	U		0.84	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.736	U		0.686	U		0.685	U		0.71	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.412	U		0.384	U		0.383	U		0.397	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-33-20240319			WGNA-SW-34A-20240319			WGNA-SW-36-20240319			WGNA-SW-39A-20240319		
SDG: 24-0207	LAB_ID	C2692-FS			C2688-FS			C2687-FS			C2691-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		8.95			11.2			9.9			8.37		
PERFLUOROBUTANOIC ACID (PFBA)		7.61			7.97			7.23			9.59		
PERFLUORODECANESULFONIC ACID (PFDS)		0.31	U		0.32	U		0.305	U		0.301	U	
PERFLUORODECANOIC ACID (PFDA)		0.427	U		0.498	J	P	0.419	U		1.37	J	P
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.345	U		0.356	U		0.338	U		0.335	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.577	U		0.595	U		0.566	U		0.559	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		1.44	J	P	1.92			1.44	J	P	1.71		
PERFLUOROHEPTANOIC ACID (PFHPA)		5.78			6.44			5.75			10.4		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		39.3			45.9			35.3			71.2		
PERFLUOROHEXANOIC ACID (PFHXA)		16.5			18			14.2			18.9		
PERFLUORONONANESULFONIC ACID (PFNS)		0.477	U		0.492	U		0.468	U		0.463	U	
PERFLUORONONANOIC ACID (PFNA)		2.14			2.8			1.98			4.92		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.36	U		0.372	U		0.353	U		0.349	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		70.4			91.8			56.3			134		
PERFLUOROPENTANESULFONIC ACID (PFPES)		5.25			6.63			4.57			5.56		
PERFLUOROPENTANOIC ACID (PFPEA)		16.9			18.2			14.6			14.1		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.822	U		0.848	U		0.806	U		0.797	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.695	U		0.717	U		0.682	U		0.675	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.389	U		0.401	U		0.382	U		0.377	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-41-20240319			WGNA-SW-42-20240319			WGNA-SW-DUP-02-20240319		
SDG: 24-0207	LAB_ID	C2690-FS			C2689-FS			C2696-FS		
FRACTION: PFAS	SAMP_DATE	3/19/2024			3/19/2024			3/19/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							WGNA-SW-39A-20240319		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		19.2			20.1			7.97		
PERFLUOROBUTANOIC ACID (PFBA)		13.5			13.8			9.58		
PERFLUORODECANESULFONIC ACID (PFDS)		0.339	U		0.32	U		0.325	U	
PERFLUORODECANOIC ACID (PFDA)		0.467	U		0.72	J	P	1.01	J	P
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.377	U		0.355	U		0.361	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.63	U		0.594	U		0.604	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		4.7			4.83			1.87		
PERFLUOROHEPTANOIC ACID (PFHPA)		13.4			14.1			10.3		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		121			121			71.9		
PERFLUOROHEXANOIC ACID (PFHXA)		36.7			38.7			18.6		
PERFLUORONONANESULFONIC ACID (PFNS)		0.521	U		0.491	U		0.5	U	
PERFLUORONONANOIC ACID (PFNA)		4.03			3.71			4.54		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.393	U		0.371	U		0.378	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		258			260			117		
PERFLUOROPENTANESULFONIC ACID (PFPES)		14.7			17.6			5.62		
PERFLUOROPENTANOIC ACID (PFPEA)		30.8			33.4			15.3		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.897	U		0.846	U		0.861	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.759	U		0.716	U		0.729	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.425	U		0.4	U		0.408	U	

Appendix B

Results as Reported by the Laboratory

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240319
Battelle ID	C2685-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	QC
Sample Size	0.493
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.21 U	C2685-FS(0)	1.000	3/23/2024	0.605	1.21	6.49
PFPeA	2706-90-3	1.14 U	C2685-FS(0)	1.000	3/23/2024	0.571	1.14	3.25
PFHxA	307-24-4	0.836 U	C2685-FS(0)	1.000	3/23/2024	0.418	0.836	1.62
PFHpA	375-85-9	0.351 U	C2685-FS(0)	1.000	3/23/2024	0.175	0.351	1.62
PFOA	335-67-1	0.588 U	C2685-FS(0)	1.000	3/23/2024	0.294	0.588	1.62
PFNA	375-95-1	0.507 U	C2685-FS(0)	1.000	3/23/2024	0.254	0.507	1.62
PFDA	335-76-2	0.452 U	C2685-FS(0)	1.000	3/23/2024	0.226	0.452	1.62
PFUnA	2058-94-8	0.412 U	C2685-FS(0)	1.000	3/23/2024	0.206	0.412	1.62
PFDoA	307-55-1	0.611 U	C2685-FS(0)	1.000	3/23/2024	0.305	0.611	1.62
PFTrDA	72629-94-8	0.736 U	C2685-FS(0)	1.000	3/23/2024	0.368	0.736	1.62
PFTeDA	376-06-7	0.870 U	C2685-FS(0)	1.000	3/23/2024	0.435	0.870	1.62
PFBS	375-73-5	0.359 U	C2685-FS(0)	1.000	3/23/2024	0.180	0.359	1.62
PFPeS	2706-91-4	0.262 U	C2685-FS(0)	1.000	3/23/2024	0.131	0.262	1.62
PFHxS	355-46-4	0.590 U	C2685-FS(0)	1.000	3/23/2024	0.295	0.590	1.62
PFHpS	375-92-8	0.414 U	C2685-FS(0)	1.000	3/23/2024	0.207	0.414	1.62
PFOS	1763-23-1	0.503 U	C2685-FS(0)	1.000	3/23/2024	0.252	0.503	1.62
PFNS	68259-12-1	0.505 U	C2685-FS(0)	1.000	3/23/2024	0.253	0.505	1.62
PFDS	335-77-3	0.329 U	C2685-FS(0)	1.000	3/23/2024	0.164	0.329	1.62
PFDoS	79780-39-5	0.365 U	C2685-FS(0)	1.000	3/23/2024	0.183	0.365	1.62
4:2FTS	757124-72-4	2.68 U	C2685-FS(0)	1.000	3/23/2024	1.34	2.68	6.49
6:2FTS	27619-97-2	3.00 U	C2685-FS(0)	1.000	3/23/2024	1.50	3.00	6.49
8:2FTS	39108-34-4	1.86 U	C2685-FS(0)	1.000	3/23/2024	0.929	1.86	6.49
PFOSA	754-91-6	0.381 U	C2685-FS(0)	1.000	3/23/2024	0.191	0.381	1.62
NMeFOSA	31506-32-8	0.404 U	C2685-FS(0)	1.000	3/23/2024	0.202	0.404	1.62
NEtFOSA	4151-50-2	0.202 U	C2685-FS(0)	1.000	3/23/2024	0.101	0.202	1.62
NMeFOSAA	2355-31-9	1.33 U	C2685-FS(0)	1.000	3/23/2024	0.664	1.33	1.62
NEtFOSAA	2991-50-6	1.16 U	C2685-FS(0)	1.000	3/23/2024	0.579	1.16	1.62
NMeFOSE	24448-09-7	3.35 U	C2685-FS(0)	1.000	3/23/2024	1.67	3.35	16.2
NEtFOSE	1691-99-2	2.94 U	C2685-FS(0)	1.000	3/23/2024	1.47	2.94	16.2
HFPO-DA	13252-13-6	1.52 U	C2685-FS(0)	1.000	3/23/2024	0.759	1.52	6.49
Adona	919005-14-4	1.41 U	C2685-FS(0)	1.000	3/23/2024	0.704	1.41	6.49
PFMPA	377-73-1	1.27 U	C2685-FS(0)	1.000	3/23/2024	0.637	1.27	3.25
PFMBA	863090-89-5	1.22 U	C2685-FS(0)	1.000	3/23/2024	0.609	1.22	3.25
NFDHA	151772-58-6	1.54 U	C2685-FS(0)	1.000	3/23/2024	0.771	1.54	3.25
9Cl-PF3ONS	756426-58-1	1.42 U	C2685-FS(0)	1.000	3/23/2024	0.709	1.42	6.49
11Cl-PF3OUdS	763051-92-9	2.21 U	C2685-FS(0)	1.000	3/23/2024	1.11	2.21	6.49
PFEESA	113507-82-7	0.430 U	C2685-FS(0)	1.000	3/23/2024	0.215	0.430	3.25
3:3 FTCA	356-02-5	3.39 U	C2685-FS(0)	1.000	3/23/2024	1.69	3.39	8.11
5:3 FTCA	914637-49-3	9.05 U	C2685-FS(0)	1.000	3/23/2024	4.52	9.05	40.6
7:3 FTCA	812-70-4	10.6 U	C2685-FS(0)	1.000	3/23/2024	5.29	10.6	40.6

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240319
Battelle ID	C2685-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	61	C2685-FS(0)	3/23/2024
13C5-PFPeA	62	C2685-FS(0)	3/23/2024
13C5-PFHxA	61	C2685-FS(0)	3/23/2024
13C4-PFHpA	64	C2685-FS(0)	3/23/2024
13C8-PFOA	63	C2685-FS(0)	3/23/2024
13C9-PFNA	61	C2685-FS(0)	3/23/2024
13C6-PFDA	58	C2685-FS(0)	3/23/2024
13C7-PFUnA	55	C2685-FS(0)	3/23/2024
13C2-PFDoA	57	C2685-FS(0)	3/23/2024
13C2-PFTeDA	53	C2685-FS(0)	3/23/2024
13C3-PFBS	65	C2685-FS(0)	3/23/2024
13C3-PFHxS	59	C2685-FS(0)	3/23/2024
13C8-PFOS	72	C2685-FS(0)	3/23/2024
13C2-4:2FTS	71	C2685-FS(0)	3/23/2024
13C2-6:2FTS	70	C2685-FS(0)	3/23/2024
13C2-8:2FTS	70	C2685-FS(0)	3/23/2024
13C8-PFOSA	62	C2685-FS(0)	3/23/2024
d3-MeFOSA	43	C2685-FS(0)	3/23/2024
d5-EtFOSA	41	C2685-FS(0)	3/23/2024
d3-MeFOSAA	65	C2685-FS(0)	3/23/2024
d5-EtFOSAA	70	C2685-FS(0)	3/23/2024
d7-MeFOSE	64	C2685-FS(0)	3/23/2024
d9-EtFOSE	57	C2685-FS(0)	3/23/2024
13C3-HFPO-DA	64	C2685-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	77	C2685-FS(0)	3/23/2024
13C2-PFHxA	72	C2685-FS(0)	3/23/2024
13C4-PFOA	68	C2685-FS(0)	3/23/2024
13C5-PFNA	74	C2685-FS(0)	3/23/2024
13C2-PFDA	71	C2685-FS(0)	3/23/2024
18O2-PFHxS	75	C2685-FS(0)	3/23/2024
13C4-PFOS	65	C2685-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36A-20240319
Battelle ID	C2686-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.472
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.03	C2686-FS(0)	1.000	3/23/2024	0.632	1.26	6.78
PFPeA	2706-90-3	15.0	C2686-FS(0)	1.000	3/23/2024	0.596	1.19	3.39
PFHxA	307-24-4	15.6	C2686-FS(0)	1.000	3/23/2024	0.436	0.873	1.69
PFHpA	375-85-9	5.43	C2686-FS(0)	1.000	3/23/2024	0.183	0.367	1.69
PFOA	335-67-1	19.1	C2686-FS(0)	1.000	3/23/2024	0.307	0.614	1.69
PFNA	375-95-1	2.33	C2686-FS(0)	1.000	3/23/2024	0.265	0.530	1.69
PFDA	335-76-2	0.472 U	C2686-FS(0)	1.000	3/23/2024	0.236	0.472	1.69
PFUnA	2058-94-8	0.430 U	C2686-FS(0)	1.000	3/23/2024	0.215	0.430	1.69
PFDoA	307-55-1	0.638 U	C2686-FS(0)	1.000	3/23/2024	0.319	0.638	1.69
PFTrDA	72629-94-8	0.769 U	C2686-FS(0)	1.000	3/23/2024	0.385	0.769	1.69
PFTeDA	376-06-7	0.909 U	C2686-FS(0)	1.000	3/23/2024	0.454	0.909	1.69
PFBS	375-73-5	11.7	C2686-FS(0)	1.000	3/23/2024	0.188	0.375	1.69
PFPeS	2706-91-4	3.93	C2686-FS(0)	1.000	3/23/2024	0.137	0.273	1.69
PFHxS	355-46-4	29.5	C2686-FS(0)	1.000	3/23/2024	0.308	0.617	1.69
PFHpS	375-92-8	0.966 J	C2686-FS(0)	1.000	3/23/2024	0.216	0.432	1.69
PFOS	1763-23-1	72.4	C2686-FS(0)	1.000	3/23/2024	0.263	0.525	1.69
PFNS	68259-12-1	0.528 U	C2686-FS(0)	1.000	3/23/2024	0.264	0.528	1.69
PFDS	335-77-3	0.343 U	C2686-FS(0)	1.000	3/23/2024	0.172	0.343	1.69
PFDoS	79780-39-5	0.381 U	C2686-FS(0)	1.000	3/23/2024	0.191	0.381	1.69
4:2FTS	757124-72-4	2.80 U	C2686-FS(0)	1.000	3/23/2024	1.40	2.80	6.78
6:2FTS	27619-97-2	4.17 J	C2686-FS(0)	1.000	3/23/2024	1.57	3.14	6.78
8:2FTS	39108-34-4	1.94 U	C2686-FS(0)	1.000	3/23/2024	0.970	1.94	6.78
PFOSA	754-91-6	0.398 U	C2686-FS(0)	1.000	3/23/2024	0.199	0.398	1.69
NMeFOSA	31506-32-8	0.422 U	C2686-FS(0)	1.000	3/23/2024	0.211	0.422	1.69
NEtFOSA	4151-50-2	0.211 U	C2686-FS(0)	1.000	3/23/2024	0.106	0.211	1.69
NMeFOSAA	2355-31-9	1.39 U	C2686-FS(0)	1.000	3/23/2024	0.694	1.39	1.69
NEtFOSAA	2991-50-6	1.21 U	C2686-FS(0)	1.000	3/23/2024	0.605	1.21	1.69
NMeFOSE	24448-09-7	3.50 U	C2686-FS(0)	1.000	3/23/2024	1.75	3.50	16.9
NEtFOSE	1691-99-2	3.07 U	C2686-FS(0)	1.000	3/23/2024	1.54	3.07	16.9
HFPO-DA	13252-13-6	1.58 U	C2686-FS(0)	1.000	3/23/2024	0.792	1.58	6.78
Adona	919005-14-4	1.47 U	C2686-FS(0)	1.000	3/23/2024	0.735	1.47	6.78
PFMPA	377-73-1	1.33 U	C2686-FS(0)	1.000	3/23/2024	0.665	1.33	3.39
PFMBA	863090-89-5	1.27 U	C2686-FS(0)	1.000	3/23/2024	0.636	1.27	3.39
NFDHA	151772-58-6	1.61 U	C2686-FS(0)	1.000	3/23/2024	0.805	1.61	3.39
9Cl-PF3ONS	756426-58-1	1.48 U	C2686-FS(0)	1.000	3/23/2024	0.740	1.48	6.78
11Cl-PF3OUdS	763051-92-9	2.31 U	C2686-FS(0)	1.000	3/23/2024	1.15	2.31	6.78
PFEESA	113507-82-7	0.449 U	C2686-FS(0)	1.000	3/23/2024	0.225	0.449	3.39
3:3 FTCA	356-02-5	3.54 U	C2686-FS(0)	1.000	3/23/2024	1.77	3.54	8.47
5:3 FTCA	914637-49-3	9.45 U	C2686-FS(0)	1.000	3/23/2024	4.72	9.45	42.4
7:3 FTCA	812-70-4	11.1 U	C2686-FS(0)	1.000	3/23/2024	5.53	11.1	42.4

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36A-20240319
Battelle ID	C2686-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery		Extract ID	Analysis Date
13C4-PFBA	20		C2686-FS(0)	3/23/2024
13C5-PFPeA	23	N	C2686-FS(0)	3/23/2024
13C5-PFHxA	20	N	C2686-FS(0)	3/23/2024
13C4-PFHpA	23	N	C2686-FS(0)	3/23/2024
13C8-PFOA	23	N	C2686-FS(0)	3/23/2024
13C9-PFNA	21	N	C2686-FS(0)	3/23/2024
13C6-PFDA	23	N	C2686-FS(0)	3/23/2024
13C7-PFUnA	20	N	C2686-FS(0)	3/23/2024
13C2-PFDoA	17	N	C2686-FS(0)	3/23/2024
13C2-PFTeDA	16	N	C2686-FS(0)	3/23/2024
13C3-PFBS	23	N	C2686-FS(0)	3/23/2024
13C3-PFHxS	26	N	C2686-FS(0)	3/23/2024
13C8-PFOS	24	N	C2686-FS(0)	3/23/2024
13C2-4:2FTS	28	N	C2686-FS(0)	3/23/2024
13C2-6:2FTS	28	N	C2686-FS(0)	3/23/2024
13C2-8:2FTS	23	N	C2686-FS(0)	3/23/2024
13C8-PFOSA	18	N	C2686-FS(0)	3/23/2024
d3-MeFOSA	13	N	C2686-FS(0)	3/23/2024
d5-EtFOSA	12	N	C2686-FS(0)	3/23/2024
d3-MeFOSAA	20	N	C2686-FS(0)	3/23/2024
d5-EtFOSAA	22	N	C2686-FS(0)	3/23/2024
d7-MeFOSE	15	N	C2686-FS(0)	3/23/2024
d9-EtFOSE	13	N	C2686-FS(0)	3/23/2024
13C3-HFPO-DA	22	N	C2686-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	130	C2686-FS(0)	3/23/2024
13C2-PFHxA	125	C2686-FS(0)	3/23/2024
13C4-PFOA	124	C2686-FS(0)	3/23/2024
13C5-PFNA	124	C2686-FS(0)	3/23/2024
13C2-PFDA	123	C2686-FS(0)	3/23/2024
18O2-PFHxS	127	C2686-FS(0)	3/23/2024
13C4-PFOS	132	C2686-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36-20240319
Battelle ID	C2687-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.532
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.23	C2687-FS(0)	1.000	3/23/2024	0.561	1.12	6.02
PFPeA	2706-90-3	14.6	C2687-FS(0)	1.000	3/23/2024	0.529	1.06	3.01
PFHxA	307-24-4	14.2	C2687-FS(0)	1.000	3/23/2024	0.387	0.774	1.50
PFHpA	375-85-9	5.75	C2687-FS(0)	1.000	3/23/2024	0.163	0.325	1.50
PFOA	335-67-1	18.3	C2687-FS(0)	1.000	3/23/2024	0.273	0.545	1.50
PFNA	375-95-1	1.98	C2687-FS(0)	1.000	3/23/2024	0.235	0.470	1.50
PFDA	335-76-2	0.419 U	C2687-FS(0)	1.000	3/23/2024	0.210	0.419	1.50
PFUnA	2058-94-8	0.382 U	C2687-FS(0)	1.000	3/23/2024	0.191	0.382	1.50
PFDoA	307-55-1	0.566 U	C2687-FS(0)	1.000	3/23/2024	0.283	0.566	1.50
PFTrDA	72629-94-8	0.682 U	C2687-FS(0)	1.000	3/23/2024	0.341	0.682	1.50
PFTeDA	376-06-7	0.806 U	C2687-FS(0)	1.000	3/23/2024	0.403	0.806	1.50
PFBS	375-73-5	9.90	C2687-FS(0)	1.000	3/23/2024	0.166	0.333	1.50
PFPeS	2706-91-4	4.57	C2687-FS(0)	1.000	3/23/2024	0.121	0.242	1.50
PFHxS	355-46-4	35.3	C2687-FS(0)	1.000	3/23/2024	0.273	0.547	1.50
PFHpS	375-92-8	1.44 J	C2687-FS(0)	1.000	3/23/2024	0.192	0.383	1.50
PFOS	1763-23-1	56.3	C2687-FS(0)	1.000	3/23/2024	0.233	0.466	1.50
PFNS	68259-12-1	0.468 U	C2687-FS(0)	1.000	3/23/2024	0.234	0.468	1.50
PFDS	335-77-3	0.305 U	C2687-FS(0)	1.000	3/23/2024	0.152	0.305	1.50
PFDoS	79780-39-5	0.338 U	C2687-FS(0)	1.000	3/23/2024	0.169	0.338	1.50
4:2FTS	757124-72-4	2.48 U	C2687-FS(0)	1.000	3/23/2024	1.24	2.48	6.02
6:2FTS	27619-97-2	5.13 J	C2687-FS(0)	1.000	3/23/2024	1.39	2.78	6.02
8:2FTS	39108-34-4	1.72 U	C2687-FS(0)	1.000	3/23/2024	0.861	1.72	6.02
PFOSA	754-91-6	0.353 U	C2687-FS(0)	1.000	3/23/2024	0.177	0.353	1.50
NMeFOSA	31506-32-8	0.374 U	C2687-FS(0)	1.000	3/23/2024	0.187	0.374	1.50
NEtFOSA	4151-50-2	0.188 U	C2687-FS(0)	1.000	3/23/2024	0.0938	0.188	1.50
NMeFOSAA	2355-31-9	1.23 U	C2687-FS(0)	1.000	3/23/2024	0.616	1.23	1.50
NEtFOSAA	2991-50-6	1.07 U	C2687-FS(0)	1.000	3/23/2024	0.537	1.07	1.50
NMeFOSE	24448-09-7	3.10 U	C2687-FS(0)	1.000	3/23/2024	1.55	3.10	15.0
NEtFOSE	1691-99-2	2.73 U	C2687-FS(0)	1.000	3/23/2024	1.36	2.73	15.0
HFPO-DA	13252-13-6	1.41 U	C2687-FS(0)	1.000	3/23/2024	0.703	1.41	6.02
Adona	919005-14-4	1.30 U	C2687-FS(0)	1.000	3/23/2024	0.652	1.30	6.02
PFMPA	377-73-1	1.18 U	C2687-FS(0)	1.000	3/23/2024	0.590	1.18	3.01
PFMBA	863090-89-5	1.13 U	C2687-FS(0)	1.000	3/23/2024	0.564	1.13	3.01
NFDHA	151772-58-6	1.43 U	C2687-FS(0)	1.000	3/23/2024	0.714	1.43	3.01
9Cl-PF3ONS	756426-58-1	1.31 U	C2687-FS(0)	1.000	3/23/2024	0.657	1.31	6.02
11Cl-PF3OUdS	763051-92-9	2.05 U	C2687-FS(0)	1.000	3/23/2024	1.02	2.05	6.02
PFEESA	113507-82-7	0.398 U	C2687-FS(0)	1.000	3/23/2024	0.199	0.398	3.01
3:3 FTCA	356-02-5	3.14 U	C2687-FS(0)	1.000	3/23/2024	1.57	3.14	7.52
5:3 FTCA	914637-49-3	8.38 U	C2687-FS(0)	1.000	3/23/2024	4.19	8.38	37.6
7:3 FTCA	812-70-4	9.81 U	C2687-FS(0)	1.000	3/23/2024	4.91	9.81	37.6

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36-20240319
Battelle ID	C2687-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	57	C2687-FS(0)	3/23/2024
13C5-PFPeA	65	C2687-FS(0)	3/23/2024
13C5-PFHxA	56	C2687-FS(0)	3/23/2024
13C4-PFHpA	63	C2687-FS(0)	3/23/2024
13C8-PFOA	59	C2687-FS(0)	3/23/2024
13C9-PFNA	66	C2687-FS(0)	3/23/2024
13C6-PFDA	59	C2687-FS(0)	3/23/2024
13C7-PFUnA	55	C2687-FS(0)	3/23/2024
13C2-PFDoA	48	C2687-FS(0)	3/23/2024
13C2-PFTeDA	28	C2687-FS(0)	3/23/2024
13C3-PFBS	60	C2687-FS(0)	3/23/2024
13C3-PFHxS	61	C2687-FS(0)	3/23/2024
13C8-PFOS	64	C2687-FS(0)	3/23/2024
13C2-4:2FTS	73	C2687-FS(0)	3/23/2024
13C2-6:2FTS	70	C2687-FS(0)	3/23/2024
13C2-8:2FTS	65	C2687-FS(0)	3/23/2024
13C8-PFOSA	55	C2687-FS(0)	3/23/2024
d3-MeFOSA	43	C2687-FS(0)	3/23/2024
d5-EtFOSA	36	C2687-FS(0)	3/23/2024
d3-MeFOSAA	62	C2687-FS(0)	3/23/2024
d5-EtFOSAA	58	C2687-FS(0)	3/23/2024
d7-MeFOSE	40	C2687-FS(0)	3/23/2024
d9-EtFOSE	30	C2687-FS(0)	3/23/2024
13C3-HFPO-DA	66	C2687-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	103	C2687-FS(0)	3/23/2024
13C2-PFHxA	99	C2687-FS(0)	3/23/2024
13C4-PFOA	103	C2687-FS(0)	3/23/2024
13C5-PFNA	98	C2687-FS(0)	3/23/2024
13C2-PFDA	100	C2687-FS(0)	3/23/2024
18O2-PFHxS	104	C2687-FS(0)	3/23/2024
13C4-PFOS	100	C2687-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-34A-20240319
Battelle ID	C2688-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.506
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.97	C2688-FS(0)	1.000	3/23/2024	0.590	1.18	6.32
PFPeA	2706-90-3	18.2	C2688-FS(0)	1.000	3/23/2024	0.556	1.11	3.16
PFHxA	307-24-4	18.0	C2688-FS(0)	1.000	3/23/2024	0.407	0.814	1.58
PFHpA	375-85-9	6.44	C2688-FS(0)	1.000	3/23/2024	0.171	0.342	1.58
PFOA	335-67-1	23.8	C2688-FS(0)	1.000	3/23/2024	0.287	0.573	1.58
PFNA	375-95-1	2.80	C2688-FS(0)	1.000	3/23/2024	0.247	0.494	1.58
PFDA	335-76-2	0.498 J	C2688-FS(0)	1.000	3/23/2024	0.220	0.441	1.58
PFUnA	2058-94-8	0.401 U	C2688-FS(0)	1.000	3/23/2024	0.201	0.401	1.58
PFDoA	307-55-1	0.595 U	C2688-FS(0)	1.000	3/23/2024	0.297	0.595	1.58
PFTrDA	72629-94-8	0.717 U	C2688-FS(0)	1.000	3/23/2024	0.359	0.717	1.58
PFTeDA	376-06-7	0.848 U	C2688-FS(0)	1.000	3/23/2024	0.424	0.848	1.58
PFBS	375-73-5	11.2	C2688-FS(0)	1.000	3/23/2024	0.175	0.350	1.58
PFPeS	2706-91-4	6.63	C2688-FS(0)	1.000	3/23/2024	0.127	0.255	1.58
PFHxS	355-46-4	45.9	C2688-FS(0)	1.000	3/23/2024	0.288	0.575	1.58
PFHpS	375-92-8	1.92	C2688-FS(0)	1.000	3/23/2024	0.202	0.403	1.58
PFOS	1763-23-1	91.8	C2688-FS(0)	1.000	3/23/2024	0.245	0.490	1.58
PFNS	68259-12-1	0.492 U	C2688-FS(0)	1.000	3/23/2024	0.246	0.492	1.58
PFDS	335-77-3	0.320 U	C2688-FS(0)	1.000	3/23/2024	0.160	0.320	1.58
PFDoS	79780-39-5	0.356 U	C2688-FS(0)	1.000	3/23/2024	0.178	0.356	1.58
4:2FTS	757124-72-4	2.61 U	C2688-FS(0)	1.000	3/23/2024	1.30	2.61	6.32
6:2FTS	27619-97-2	7.68	C2688-FS(0)	1.000	3/23/2024	1.46	2.92	6.32
8:2FTS	39108-34-4	1.81 U	C2688-FS(0)	1.000	3/23/2024	0.905	1.81	6.32
PFOSA	754-91-6	0.372 U	C2688-FS(0)	1.000	3/23/2024	0.186	0.372	1.58
NMeFOSA	31506-32-8	0.393 U	C2688-FS(0)	1.000	3/23/2024	0.197	0.393	1.58
NEtFOSA	4151-50-2	0.197 U	C2688-FS(0)	1.000	3/23/2024	0.0986	0.197	1.58
NMeFOSAA	2355-31-9	1.29 U	C2688-FS(0)	1.000	3/23/2024	0.647	1.29	1.58
NEtFOSAA	2991-50-6	1.13 U	C2688-FS(0)	1.000	3/23/2024	0.564	1.13	1.58
NMeFOSE	24448-09-7	3.26 U	C2688-FS(0)	1.000	3/23/2024	1.63	3.26	15.8
NEtFOSE	1691-99-2	2.87 U	C2688-FS(0)	1.000	3/23/2024	1.43	2.87	15.8
HFPO-DA	13252-13-6	1.48 U	C2688-FS(0)	1.000	3/23/2024	0.739	1.48	6.32
Adona	919005-14-4	1.37 U	C2688-FS(0)	1.000	3/23/2024	0.686	1.37	6.32
PFMPA	377-73-1	1.24 U	C2688-FS(0)	1.000	3/23/2024	0.621	1.24	3.16
PFMBA	863090-89-5	1.19 U	C2688-FS(0)	1.000	3/23/2024	0.593	1.19	3.16
NFDHA	151772-58-6	1.50 U	C2688-FS(0)	1.000	3/23/2024	0.751	1.50	3.16
9Cl-PF3ONS	756426-58-1	1.38 U	C2688-FS(0)	1.000	3/23/2024	0.691	1.38	6.32
11Cl-PF3OUdS	763051-92-9	2.15 U	C2688-FS(0)	1.000	3/23/2024	1.08	2.15	6.32
PFEESA	113507-82-7	0.419 U	C2688-FS(0)	1.000	3/23/2024	0.209	0.419	3.16
3:3 FTCA	356-02-5	3.30 U	C2688-FS(0)	1.000	3/23/2024	1.65	3.30	7.91
5:3 FTCA	914637-49-3	8.81 U	C2688-FS(0)	1.000	3/23/2024	4.41	8.81	39.5
7:3 FTCA	812-70-4	10.3 U	C2688-FS(0)	1.000	3/23/2024	5.16	10.3	39.5

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-34A-20240319
Battelle ID	C2688-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	69	C2688-FS(0)	3/23/2024
13C5-PFPeA	86	C2688-FS(0)	3/23/2024
13C5-PFHxA	71	C2688-FS(0)	3/23/2024
13C4-PFHpA	79	C2688-FS(0)	3/23/2024
13C8-PFOA	76	C2688-FS(0)	3/23/2024
13C9-PFNA	76	C2688-FS(0)	3/23/2024
13C6-PFDA	77	C2688-FS(0)	3/23/2024
13C7-PFUnA	61	C2688-FS(0)	3/23/2024
13C2-PFDoA	52	C2688-FS(0)	3/23/2024
13C2-PFTeDA	30	C2688-FS(0)	3/23/2024
13C3-PFBS	77	C2688-FS(0)	3/23/2024
13C3-PFHxS	81	C2688-FS(0)	3/23/2024
13C8-PFOS	78	C2688-FS(0)	3/23/2024
13C2-4:2FTS	87	C2688-FS(0)	3/23/2024
13C2-6:2FTS	89	C2688-FS(0)	3/23/2024
13C2-8:2FTS	84	C2688-FS(0)	3/23/2024
13C8-PFOSA	73	C2688-FS(0)	3/23/2024
d3-MeFOSA	58	C2688-FS(0)	3/23/2024
d5-EtFOSA	51	C2688-FS(0)	3/23/2024
d3-MeFOSAA	68	C2688-FS(0)	3/23/2024
d5-EtFOSAA	71	C2688-FS(0)	3/23/2024
d7-MeFOSE	50	C2688-FS(0)	3/23/2024
d9-EtFOSE	41	C2688-FS(0)	3/23/2024
13C3-HFPO-DA	82	C2688-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	105	C2688-FS(0)	3/23/2024
13C2-PFHxA	100	C2688-FS(0)	3/23/2024
13C4-PFOA	105	C2688-FS(0)	3/23/2024
13C5-PFNA	105	C2688-FS(0)	3/23/2024
13C2-PFDA	104	C2688-FS(0)	3/23/2024
18O2-PFHxS	102	C2688-FS(0)	3/23/2024
13C4-PFOS	106	C2688-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-42-20240319
Battelle ID	C2689-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.507
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	13.8	C2689-FS(0)	1.000	3/23/2024	0.589	1.18	6.31
PFPeA	2706-90-3	33.4	C2689-FS(0)	1.000	3/23/2024	0.555	1.11	3.16
PFHxA	307-24-4	38.7	C2689-FS(0)	1.000	3/23/2024	0.406	0.813	1.58
PFHpA	375-85-9	14.1	C2689-FS(0)	1.000	3/23/2024	0.171	0.341	1.58
PFOA	335-67-1	75.4	C2689-FS(0)	1.000	3/23/2024	0.286	0.572	1.58
PFNA	375-95-1	3.71	C2689-FS(0)	1.000	3/23/2024	0.247	0.493	1.58
PFDA	335-76-2	0.720 J	C2689-FS(0)	1.000	3/23/2024	0.220	0.440	1.58
PFUnA	2058-94-8	0.400 U	C2689-FS(0)	1.000	3/23/2024	0.200	0.400	1.58
PFDoA	307-55-1	0.594 U	C2689-FS(0)	1.000	3/23/2024	0.297	0.594	1.58
PFTrDA	72629-94-8	0.716 U	C2689-FS(0)	1.000	3/23/2024	0.358	0.716	1.58
PFTeDA	376-06-7	0.846 U	C2689-FS(0)	1.000	3/23/2024	0.423	0.846	1.58
PFBS	375-73-5	20.1	C2689-FS(0)	1.000	3/23/2024	0.175	0.349	1.58
PFPeS	2706-91-4	17.6	C2689-FS(0)	1.000	3/23/2024	0.127	0.254	1.58
PFHxS	355-46-4	121	C2689-FS(0)	1.000	3/23/2024	0.287	0.574	1.58
PFHpS	375-92-8	4.83	C2689-FS(0)	1.000	3/23/2024	0.201	0.402	1.58
PFOS	1763-23-1	260	C2689-FS(0)	1.000	3/23/2024	0.245	0.489	1.58
PFNS	68259-12-1	0.491 U	C2689-FS(0)	1.000	3/23/2024	0.246	0.491	1.58
PFDS	335-77-3	0.320 U	C2689-FS(0)	1.000	3/23/2024	0.160	0.320	1.58
PFDoS	79780-39-5	0.355 U	C2689-FS(0)	1.000	3/23/2024	0.178	0.355	1.58
4:2FTS	757124-72-4	2.60 U	C2689-FS(0)	1.000	3/23/2024	1.30	2.60	6.31
6:2FTS	27619-97-2	12.5	C2689-FS(0)	1.000	3/23/2024	1.46	2.92	6.31
8:2FTS	39108-34-4	1.81 U	C2689-FS(0)	1.000	3/23/2024	0.903	1.81	6.31
PFOSA	754-91-6	0.371 U	C2689-FS(0)	1.000	3/23/2024	0.185	0.371	1.58
NMeFOSA	31506-32-8	0.393 U	C2689-FS(0)	1.000	3/23/2024	0.196	0.393	1.58
NEtFOSA	4151-50-2	0.197 U	C2689-FS(0)	1.000	3/23/2024	0.0984	0.197	1.58
NMeFOSAA	2355-31-9	1.29 U	C2689-FS(0)	1.000	3/23/2024	0.646	1.29	1.58
NEtFOSAA	2991-50-6	1.13 U	C2689-FS(0)	1.000	3/23/2024	0.563	1.13	1.58
NMeFOSE	24448-09-7	3.25 U	C2689-FS(0)	1.000	3/23/2024	1.63	3.25	15.8
NEtFOSE	1691-99-2	2.86 U	C2689-FS(0)	1.000	3/23/2024	1.43	2.86	15.8
HFPO-DA	13252-13-6	1.48 U	C2689-FS(0)	1.000	3/23/2024	0.738	1.48	6.31
Adona	919005-14-4	1.37 U	C2689-FS(0)	1.000	3/23/2024	0.684	1.37	6.31
PFMPA	377-73-1	1.24 U	C2689-FS(0)	1.000	3/23/2024	0.619	1.24	3.16
PFMBA	863090-89-5	1.18 U	C2689-FS(0)	1.000	3/23/2024	0.592	1.18	3.16
NFDHA	151772-58-6	1.50 U	C2689-FS(0)	1.000	3/23/2024	0.750	1.50	3.16
9Cl-PF3ONS	756426-58-1	1.38 U	C2689-FS(0)	1.000	3/23/2024	0.689	1.38	6.31
11Cl-PF3OUdS	763051-92-9	2.15 U	C2689-FS(0)	1.000	3/23/2024	1.07	2.15	6.31
PFEESA	113507-82-7	0.418 U	C2689-FS(0)	1.000	3/23/2024	0.209	0.418	3.16
3:3 FTCA	356-02-5	3.29 U	C2689-FS(0)	1.000	3/23/2024	1.65	3.29	7.89
5:3 FTCA	914637-49-3	8.80 U	C2689-FS(0)	1.000	3/23/2024	4.40	8.80	39.4
7:3 FTCA	812-70-4	10.3 U	C2689-FS(0)	1.000	3/23/2024	5.15	10.3	39.4

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-42-20240319
Battelle ID	C2689-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	62	C2689-FS(0)	3/23/2024
13C5-PFPeA	75	C2689-FS(0)	3/23/2024
13C5-PFHxA	64	C2689-FS(0)	3/23/2024
13C4-PFHpA	73	C2689-FS(0)	3/23/2024
13C8-PFOA	72	C2689-FS(0)	3/23/2024
13C9-PFNA	70	C2689-FS(0)	3/23/2024
13C6-PFDA	56	C2689-FS(0)	3/23/2024
13C7-PFUnA	51	C2689-FS(0)	3/23/2024
13C2-PFDoA	43	C2689-FS(0)	3/23/2024
13C2-PFTeDA	32	C2689-FS(0)	3/23/2024
13C3-PFBS	63	C2689-FS(0)	3/23/2024
13C3-PFHxS	66	C2689-FS(0)	3/23/2024
13C8-PFOS	65	C2689-FS(0)	3/23/2024
13C2-4:2FTS	78	C2689-FS(0)	3/23/2024
13C2-6:2FTS	67	C2689-FS(0)	3/23/2024
13C2-8:2FTS	71	C2689-FS(0)	3/23/2024
13C8-PFOSA	56	C2689-FS(0)	3/23/2024
d3-MeFOSA	41	C2689-FS(0)	3/23/2024
d5-EtFOSA	34	C2689-FS(0)	3/23/2024
d3-MeFOSAA	53	C2689-FS(0)	3/23/2024
d5-EtFOSAA	58	C2689-FS(0)	3/23/2024
d7-MeFOSE	39	C2689-FS(0)	3/23/2024
d9-EtFOSE	32	C2689-FS(0)	3/23/2024
13C3-HFPO-DA	72	C2689-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	104	C2689-FS(0)	3/23/2024
13C2-PFHxA	96	C2689-FS(0)	3/23/2024
13C4-PFOA	103	C2689-FS(0)	3/23/2024
13C5-PFNA	100	C2689-FS(0)	3/23/2024
13C2-PFDA	113	C2689-FS(0)	3/23/2024
18O2-PFHxS	104	C2689-FS(0)	3/23/2024
13C4-PFOS	111	C2689-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-41-20240319
Battelle ID	C2690-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.478
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	13.5	C2690-FS(0)	1.000	3/23/2024	0.624	1.25	6.69
PFPeA	2706-90-3	30.8	C2690-FS(0)	1.000	3/23/2024	0.589	1.18	3.35
PFHxA	307-24-4	36.7	C2690-FS(0)	1.000	3/23/2024	0.431	0.862	1.67
PFHpA	375-85-9	13.4	C2690-FS(0)	1.000	3/23/2024	0.181	0.362	1.67
PFOA	335-67-1	83.1	C2690-FS(0)	1.000	3/23/2024	0.303	0.607	1.67
PFNA	375-95-1	4.03	C2690-FS(0)	1.000	3/23/2024	0.262	0.523	1.67
PFDA	335-76-2	0.467 U	C2690-FS(0)	1.000	3/23/2024	0.233	0.467	1.67
PFUnA	2058-94-8	0.425 U	C2690-FS(0)	1.000	3/23/2024	0.212	0.425	1.67
PFDoA	307-55-1	0.630 U	C2690-FS(0)	1.000	3/23/2024	0.315	0.630	1.67
PFTrDA	72629-94-8	0.759 U	C2690-FS(0)	1.000	3/23/2024	0.380	0.759	1.67
PFTeDA	376-06-7	0.897 U	C2690-FS(0)	1.000	3/23/2024	0.449	0.897	1.67
PFBS	375-73-5	19.2	C2690-FS(0)	1.000	3/23/2024	0.185	0.370	1.67
PFPeS	2706-91-4	14.7	C2690-FS(0)	1.000	3/23/2024	0.135	0.270	1.67
PFHxS	355-46-4	121	C2690-FS(0)	1.000	3/23/2024	0.304	0.609	1.67
PFHpS	375-92-8	4.70	C2690-FS(0)	1.000	3/23/2024	0.213	0.427	1.67
PFOS	1763-23-1	258	C2690-FS(0)	1.000	3/23/2024	0.259	0.519	1.67
PFNS	68259-12-1	0.521 U	C2690-FS(0)	1.000	3/23/2024	0.260	0.521	1.67
PFDS	335-77-3	0.339 U	C2690-FS(0)	1.000	3/23/2024	0.169	0.339	1.67
PFDoS	79780-39-5	0.377 U	C2690-FS(0)	1.000	3/23/2024	0.188	0.377	1.67
4:2FTS	757124-72-4	2.76 U	C2690-FS(0)	1.000	3/23/2024	1.38	2.76	6.69
6:2FTS	27619-97-2	9.50	C2690-FS(0)	1.000	3/23/2024	1.55	3.10	6.69
8:2FTS	39108-34-4	1.92 U	C2690-FS(0)	1.000	3/23/2024	0.958	1.92	6.69
PFOSA	754-91-6	0.393 U	C2690-FS(0)	1.000	3/23/2024	0.197	0.393	1.67
NMeFOSA	31506-32-8	0.416 U	C2690-FS(0)	1.000	3/23/2024	0.208	0.416	1.67
NEtFOSA	4151-50-2	0.209 U	C2690-FS(0)	1.000	3/23/2024	0.104	0.209	1.67
NMeFOSAA	2355-31-9	1.37 U	C2690-FS(0)	1.000	3/23/2024	0.685	1.37	1.67
NEtFOSAA	2991-50-6	1.19 U	C2690-FS(0)	1.000	3/23/2024	0.597	1.19	1.67
NMeFOSE	24448-09-7	3.45 U	C2690-FS(0)	1.000	3/23/2024	1.73	3.45	16.7
NEtFOSE	1691-99-2	3.03 U	C2690-FS(0)	1.000	3/23/2024	1.52	3.03	16.7
HFPO-DA	13252-13-6	1.56 U	C2690-FS(0)	1.000	3/23/2024	0.782	1.56	6.69
Adona	919005-14-4	1.45 U	C2690-FS(0)	1.000	3/23/2024	0.726	1.45	6.69
PFMPA	377-73-1	1.31 U	C2690-FS(0)	1.000	3/23/2024	0.657	1.31	3.35
PFMBA	863090-89-5	1.26 U	C2690-FS(0)	1.000	3/23/2024	0.628	1.26	3.35
NFDHA	151772-58-6	1.59 U	C2690-FS(0)	1.000	3/23/2024	0.795	1.59	3.35
9Cl-PF3ONS	756426-58-1	1.46 U	C2690-FS(0)	1.000	3/23/2024	0.731	1.46	6.69
11Cl-PF3OUdS	763051-92-9	2.28 U	C2690-FS(0)	1.000	3/23/2024	1.14	2.28	6.69
PFEESA	113507-82-7	0.444 U	C2690-FS(0)	1.000	3/23/2024	0.222	0.444	3.35
3:3 FTCA	356-02-5	3.49 U	C2690-FS(0)	1.000	3/23/2024	1.75	3.49	8.37
5:3 FTCA	914637-49-3	9.33 U	C2690-FS(0)	1.000	3/23/2024	4.67	9.33	41.8
7:3 FTCA	812-70-4	10.9 U	C2690-FS(0)	1.000	3/23/2024	5.46	10.9	41.8

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-41-20240319
Battelle ID	C2690-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	73	C2690-FS(0)	3/23/2024
13C5-PFPeA	84	C2690-FS(0)	3/23/2024
13C5-PFHxA	72	C2690-FS(0)	3/23/2024
13C4-PFHpA	75	C2690-FS(0)	3/23/2024
13C8-PFOA	77	C2690-FS(0)	3/23/2024
13C9-PFNA	75	C2690-FS(0)	3/23/2024
13C6-PFDA	70	C2690-FS(0)	3/23/2024
13C7-PFUnA	62	C2690-FS(0)	3/23/2024
13C2-PFDoA	52	C2690-FS(0)	3/23/2024
13C2-PFTeDA	34	C2690-FS(0)	3/23/2024
13C3-PFBS	74	C2690-FS(0)	3/23/2024
13C3-PFHxS	74	C2690-FS(0)	3/23/2024
13C8-PFOS	71	C2690-FS(0)	3/23/2024
13C2-4:2FTS	88	C2690-FS(0)	3/23/2024
13C2-6:2FTS	82	C2690-FS(0)	3/23/2024
13C2-8:2FTS	70	C2690-FS(0)	3/23/2024
13C8-PFOSA	62	C2690-FS(0)	3/23/2024
d3-MeFOSA	44	C2690-FS(0)	3/23/2024
d5-EtFOSA	36	C2690-FS(0)	3/23/2024
d3-MeFOSAA	56	C2690-FS(0)	3/23/2024
d5-EtFOSAA	58	C2690-FS(0)	3/23/2024
d7-MeFOSE	44	C2690-FS(0)	3/23/2024
d9-EtFOSE	34	C2690-FS(0)	3/23/2024
13C3-HFPO-DA	77	C2690-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	100	C2690-FS(0)	3/23/2024
13C2-PFHxA	97	C2690-FS(0)	3/23/2024
13C4-PFOA	95	C2690-FS(0)	3/23/2024
13C5-PFNA	101	C2690-FS(0)	3/23/2024
13C2-PFDA	100	C2690-FS(0)	3/23/2024
18O2-PFHxS	103	C2690-FS(0)	3/23/2024
13C4-PFOS	110	C2690-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-39A-20240319
Battelle ID	C2691-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.538
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.59	C2691-FS(0)	1.000	3/23/2024	0.555	1.11	5.95
PFPeA	2706-90-3	14.1	C2691-FS(0)	1.000	3/23/2024	0.523	1.05	2.97
PFHxA	307-24-4	18.9	C2691-FS(0)	1.000	3/23/2024	0.383	0.766	1.49
PFHpA	375-85-9	10.4	C2691-FS(0)	1.000	3/23/2024	0.161	0.322	1.49
PFOA	335-67-1	73.1	C2691-FS(0)	1.000	3/23/2024	0.270	0.539	1.49
PFNA	375-95-1	4.92	C2691-FS(0)	1.000	3/23/2024	0.232	0.465	1.49
PFDA	335-76-2	1.37 J	C2691-FS(0)	1.000	3/23/2024	0.207	0.414	1.49
PFUnA	2058-94-8	0.377 U	C2691-FS(0)	1.000	3/23/2024	0.189	0.377	1.49
PFDoA	307-55-1	0.559 U	C2691-FS(0)	1.000	3/23/2024	0.280	0.559	1.49
PFTrDA	72629-94-8	0.675 U	C2691-FS(0)	1.000	3/23/2024	0.337	0.675	1.49
PFTeDA	376-06-7	0.797 U	C2691-FS(0)	1.000	3/23/2024	0.399	0.797	1.49
PFBS	375-73-5	8.37	C2691-FS(0)	1.000	3/23/2024	0.164	0.329	1.49
PFPeS	2706-91-4	5.56	C2691-FS(0)	1.000	3/23/2024	0.120	0.240	1.49
PFHxS	355-46-4	71.2	C2691-FS(0)	1.000	3/23/2024	0.270	0.541	1.49
PFHpS	375-92-8	1.71	C2691-FS(0)	1.000	3/23/2024	0.190	0.379	1.49
PFOS	1763-23-1	134	C2691-FS(0)	1.000	3/23/2024	0.230	0.461	1.49
PFNS	68259-12-1	0.463 U	C2691-FS(0)	1.000	3/23/2024	0.231	0.463	1.49
PFDS	335-77-3	0.301 U	C2691-FS(0)	1.000	3/23/2024	0.151	0.301	1.49
PFDoS	79780-39-5	0.335 U	C2691-FS(0)	1.000	3/23/2024	0.167	0.335	1.49
4:2FTS	757124-72-4	2.45 U	C2691-FS(0)	1.000	3/23/2024	1.23	2.45	5.95
6:2FTS	27619-97-2	2.75 U	C2691-FS(0)	1.000	3/23/2024	1.38	2.75	5.95
8:2FTS	39108-34-4	1.70 U	C2691-FS(0)	1.000	3/23/2024	0.851	1.70	5.95
PFOSA	754-91-6	0.349 U	C2691-FS(0)	1.000	3/23/2024	0.175	0.349	1.49
NMeFOSA	31506-32-8	0.370 U	C2691-FS(0)	1.000	3/23/2024	0.185	0.370	1.49
NEtFOSA	4151-50-2	0.186 U	C2691-FS(0)	1.000	3/23/2024	0.0928	0.186	1.49
NMeFOSAA	2355-31-9	1.22 U	C2691-FS(0)	1.000	3/23/2024	0.609	1.22	1.49
NEtFOSAA	2991-50-6	1.06 U	C2691-FS(0)	1.000	3/23/2024	0.531	1.06	1.49
NMeFOSE	24448-09-7	3.07 U	C2691-FS(0)	1.000	3/23/2024	1.53	3.07	14.9
NEtFOSE	1691-99-2	2.70 U	C2691-FS(0)	1.000	3/23/2024	1.35	2.70	14.9
HFPO-DA	13252-13-6	1.39 U	C2691-FS(0)	1.000	3/23/2024	0.695	1.39	5.95
Adona	919005-14-4	1.29 U	C2691-FS(0)	1.000	3/23/2024	0.645	1.29	5.95
PFMPA	377-73-1	1.17 U	C2691-FS(0)	1.000	3/23/2024	0.584	1.17	2.97
PFMBA	863090-89-5	1.12 U	C2691-FS(0)	1.000	3/23/2024	0.558	1.12	2.97
NFDHA	151772-58-6	1.41 U	C2691-FS(0)	1.000	3/23/2024	0.706	1.41	2.97
9Cl-PF3ONS	756426-58-1	1.30 U	C2691-FS(0)	1.000	3/23/2024	0.650	1.30	5.95
11Cl-PF3OUdS	763051-92-9	2.03 U	C2691-FS(0)	1.000	3/23/2024	1.01	2.03	5.95
PFEESA	113507-82-7	0.394 U	C2691-FS(0)	1.000	3/23/2024	0.197	0.394	2.97
3:3 FTCA	356-02-5	3.10 U	C2691-FS(0)	1.000	3/23/2024	1.55	3.10	7.43
5:3 FTCA	914637-49-3	8.29 U	C2691-FS(0)	1.000	3/23/2024	4.14	8.29	37.2
7:3 FTCA	812-70-4	9.70 U	C2691-FS(0)	1.000	3/23/2024	4.85	9.70	37.2

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-39A-20240319
Battelle ID	C2691-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	66	C2691-FS(0)	3/23/2024
13C5-PFPeA	76	C2691-FS(0)	3/23/2024
13C5-PFHxA	64	C2691-FS(0)	3/23/2024
13C4-PFHpA	67	C2691-FS(0)	3/23/2024
13C8-PFOA	63	C2691-FS(0)	3/23/2024
13C9-PFNA	71	C2691-FS(0)	3/23/2024
13C6-PFDA	62	C2691-FS(0)	3/23/2024
13C7-PFUnA	54	C2691-FS(0)	3/23/2024
13C2-PFDoA	51	C2691-FS(0)	3/23/2024
13C2-PFTeDA	37	C2691-FS(0)	3/23/2024
13C3-PFBS	66	C2691-FS(0)	3/23/2024
13C3-PFHxS	69	C2691-FS(0)	3/23/2024
13C8-PFOS	68	C2691-FS(0)	3/23/2024
13C2-4:2FTS	79	C2691-FS(0)	3/23/2024
13C2-6:2FTS	67	C2691-FS(0)	3/23/2024
13C2-8:2FTS	68	C2691-FS(0)	3/23/2024
13C8-PFOSA	58	C2691-FS(0)	3/23/2024
d3-MeFOSA	37	C2691-FS(0)	3/23/2024
d5-EtFOSA	35	C2691-FS(0)	3/23/2024
d3-MeFOSAA	57	C2691-FS(0)	3/23/2024
d5-EtFOSAA	58	C2691-FS(0)	3/23/2024
d7-MeFOSE	41	C2691-FS(0)	3/23/2024
d9-EtFOSE	33	C2691-FS(0)	3/23/2024
13C3-HFPO-DA	72	C2691-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	105	C2691-FS(0)	3/23/2024
13C2-PFHxA	102	C2691-FS(0)	3/23/2024
13C4-PFOA	109	C2691-FS(0)	3/23/2024
13C5-PFNA	100	C2691-FS(0)	3/23/2024
13C2-PFDA	102	C2691-FS(0)	3/23/2024
18O2-PFHxS	109	C2691-FS(0)	3/23/2024
13C4-PFOS	109	C2691-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-33-20240319
Battelle ID	C2692-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.522
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.61	C2692-FS(0)	1.000	3/23/2024	0.572	1.14	6.13
PFPeA	2706-90-3	16.9	C2692-FS(0)	1.000	3/23/2024	0.539	1.08	3.07
PFHxA	307-24-4	16.5	C2692-FS(0)	1.000	3/23/2024	0.395	0.789	1.53
PFHpA	375-85-9	5.78	C2692-FS(0)	1.000	3/23/2024	0.166	0.331	1.53
PFOA	335-67-1	16.7	C2692-FS(0)	1.000	3/23/2024	0.278	0.556	1.53
PFNA	375-95-1	2.14	C2692-FS(0)	1.000	3/23/2024	0.239	0.479	1.53
PFDA	335-76-2	0.427 U	C2692-FS(0)	1.000	3/23/2024	0.214	0.427	1.53
PFUnA	2058-94-8	0.389 U	C2692-FS(0)	1.000	3/23/2024	0.194	0.389	1.53
PFDoA	307-55-1	0.577 U	C2692-FS(0)	1.000	3/23/2024	0.288	0.577	1.53
PFTrDA	72629-94-8	0.695 U	C2692-FS(0)	1.000	3/23/2024	0.348	0.695	1.53
PFTeDA	376-06-7	0.822 U	C2692-FS(0)	1.000	3/23/2024	0.411	0.822	1.53
PFBS	375-73-5	8.95	C2692-FS(0)	1.000	3/23/2024	0.170	0.339	1.53
PFPeS	2706-91-4	5.25	C2692-FS(0)	1.000	3/23/2024	0.124	0.247	1.53
PFHxS	355-46-4	39.3	C2692-FS(0)	1.000	3/23/2024	0.279	0.557	1.53
PFHpS	375-92-8	1.44 J	C2692-FS(0)	1.000	3/23/2024	0.195	0.391	1.53
PFOS	1763-23-1	70.4	C2692-FS(0)	1.000	3/23/2024	0.238	0.475	1.53
PFNS	68259-12-1	0.477 U	C2692-FS(0)	1.000	3/23/2024	0.239	0.477	1.53
PFDS	335-77-3	0.310 U	C2692-FS(0)	1.000	3/23/2024	0.155	0.310	1.53
PFDoS	79780-39-5	0.345 U	C2692-FS(0)	1.000	3/23/2024	0.172	0.345	1.53
4:2FTS	757124-72-4	2.53 U	C2692-FS(0)	1.000	3/23/2024	1.26	2.53	6.13
6:2FTS	27619-97-2	6.33	C2692-FS(0)	1.000	3/23/2024	1.42	2.84	6.13
8:2FTS	39108-34-4	1.75 U	C2692-FS(0)	1.000	3/23/2024	0.877	1.75	6.13
PFOSA	754-91-6	0.360 U	C2692-FS(0)	1.000	3/23/2024	0.180	0.360	1.53
NMeFOSA	31506-32-8	0.381 U	C2692-FS(0)	1.000	3/23/2024	0.191	0.381	1.53
NEtFOSA	4151-50-2	0.191 U	C2692-FS(0)	1.000	3/23/2024	0.0956	0.191	1.53
NMeFOSAA	2355-31-9	1.25 U	C2692-FS(0)	1.000	3/23/2024	0.627	1.25	1.53
NEtFOSAA	2991-50-6	1.09 U	C2692-FS(0)	1.000	3/23/2024	0.547	1.09	1.53
NMeFOSE	24448-09-7	3.16 U	C2692-FS(0)	1.000	3/23/2024	1.58	3.16	15.3
NEtFOSE	1691-99-2	2.78 U	C2692-FS(0)	1.000	3/23/2024	1.39	2.78	15.3
HFPO-DA	13252-13-6	1.43 U	C2692-FS(0)	1.000	3/23/2024	0.716	1.43	6.13
Adona	919005-14-4	1.33 U	C2692-FS(0)	1.000	3/23/2024	0.665	1.33	6.13
PFMPA	377-73-1	1.20 U	C2692-FS(0)	1.000	3/23/2024	0.602	1.20	3.07
PFMBA	863090-89-5	1.15 U	C2692-FS(0)	1.000	3/23/2024	0.575	1.15	3.07
NFDHA	151772-58-6	1.46 U	C2692-FS(0)	1.000	3/23/2024	0.728	1.46	3.07
9Cl-PF3ONS	756426-58-1	1.34 U	C2692-FS(0)	1.000	3/23/2024	0.670	1.34	6.13
11Cl-PF3OUdS	763051-92-9	2.09 U	C2692-FS(0)	1.000	3/23/2024	1.04	2.09	6.13
PFEESA	113507-82-7	0.406 U	C2692-FS(0)	1.000	3/23/2024	0.203	0.406	3.07
3:3 FTCA	356-02-5	3.20 U	C2692-FS(0)	1.000	3/23/2024	1.60	3.20	7.66
5:3 FTCA	914637-49-3	8.54 U	C2692-FS(0)	1.000	3/23/2024	4.27	8.54	38.3
7:3 FTCA	812-70-4	10.0 U	C2692-FS(0)	1.000	3/23/2024	5.00	10.0	38.3

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-33-20240319
Battelle ID	C2692-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	82	C2692-FS(0)	3/23/2024
13C5-PFPeA	101	C2692-FS(0)	3/23/2024
13C5-PFHxA	84	C2692-FS(0)	3/23/2024
13C4-PFHpA	94	C2692-FS(0)	3/23/2024
13C8-PFOA	100	C2692-FS(0)	3/23/2024
13C9-PFNA	99	C2692-FS(0)	3/23/2024
13C6-PFDA	97	C2692-FS(0)	3/23/2024
13C7-PFUnA	89	C2692-FS(0)	3/23/2024
13C2-PFDoA	68	C2692-FS(0)	3/23/2024
13C2-PFTeDA	34	C2692-FS(0)	3/23/2024
13C3-PFBS	93	C2692-FS(0)	3/23/2024
13C3-PFHxS	91	C2692-FS(0)	3/23/2024
13C8-PFOS	102	C2692-FS(0)	3/23/2024
13C2-4:2FTS	104	C2692-FS(0)	3/23/2024
13C2-6:2FTS	105	C2692-FS(0)	3/23/2024
13C2-8:2FTS	84	C2692-FS(0)	3/23/2024
13C8-PFOSA	92	C2692-FS(0)	3/23/2024
d3-MeFOSA	74	C2692-FS(0)	3/23/2024
d5-EtFOSA	64	C2692-FS(0)	3/23/2024
d3-MeFOSAA	94	C2692-FS(0)	3/23/2024
d5-EtFOSAA	96	C2692-FS(0)	3/23/2024
d7-MeFOSE	65	C2692-FS(0)	3/23/2024
d9-EtFOSE	50	C2692-FS(0)	3/23/2024
13C3-HFPO-DA	88	C2692-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	85	C2692-FS(0)	3/23/2024
13C2-PFHxA	86	C2692-FS(0)	3/23/2024
13C4-PFOA	78	C2692-FS(0)	3/23/2024
13C5-PFNA	80	C2692-FS(0)	3/23/2024
13C2-PFDA	87	C2692-FS(0)	3/23/2024
18O2-PFHxS	88	C2692-FS(0)	3/23/2024
13C4-PFOS	81	C2692-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-30-20240319
Battelle ID	C2693-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.511
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.12 J	C2693-FS(0)	1.000	3/23/2024	0.584	1.17	6.26
PFPeA	2706-90-3	14.7	C2693-FS(0)	1.000	3/23/2024	0.551	1.10	3.13
PFHxA	307-24-4	7.87	C2693-FS(0)	1.000	3/23/2024	0.403	0.806	1.57
PFHpA	375-85-9	2.52	C2693-FS(0)	1.000	3/23/2024	0.169	0.339	1.57
PFOA	335-67-1	8.01	C2693-FS(0)	1.000	3/23/2024	0.284	0.568	1.57
PFNA	375-95-1	1.64	C2693-FS(0)	1.000	3/23/2024	0.245	0.489	1.57
PFDA	335-76-2	0.436 U	C2693-FS(0)	1.000	3/23/2024	0.218	0.436	1.57
PFUnA	2058-94-8	0.397 U	C2693-FS(0)	1.000	3/23/2024	0.199	0.397	1.57
PFDoA	307-55-1	0.589 U	C2693-FS(0)	1.000	3/23/2024	0.295	0.589	1.57
PFTrDA	72629-94-8	0.710 U	C2693-FS(0)	1.000	3/23/2024	0.355	0.710	1.57
PFTeDA	376-06-7	0.840 U	C2693-FS(0)	1.000	3/23/2024	0.420	0.840	1.57
PFBS	375-73-5	5.84	C2693-FS(0)	1.000	3/23/2024	0.173	0.346	1.57
PFPeS	2706-91-4	0.350 J	C2693-FS(0)	1.000	3/23/2024	0.126	0.252	1.57
PFHxS	355-46-4	2.39	C2693-FS(0)	1.000	3/23/2024	0.285	0.569	1.57
PFHpS	375-92-8	0.399 U	C2693-FS(0)	1.000	3/23/2024	0.200	0.399	1.57
PFOS	1763-23-1	6.74	C2693-FS(0)	1.000	3/23/2024	0.243	0.485	1.57
PFNS	68259-12-1	0.487 U	C2693-FS(0)	1.000	3/23/2024	0.244	0.487	1.57
PFDS	335-77-3	0.317 U	C2693-FS(0)	1.000	3/23/2024	0.159	0.317	1.57
PFDoS	79780-39-5	0.352 U	C2693-FS(0)	1.000	3/23/2024	0.176	0.352	1.57
4:2FTS	757124-72-4	2.58 U	C2693-FS(0)	1.000	3/23/2024	1.29	2.58	6.26
6:2FTS	27619-97-2	2.90 U	C2693-FS(0)	1.000	3/23/2024	1.45	2.90	6.26
8:2FTS	39108-34-4	1.79 U	C2693-FS(0)	1.000	3/23/2024	0.896	1.79	6.26
PFOSA	754-91-6	0.368 U	C2693-FS(0)	1.000	3/23/2024	0.184	0.368	1.57
NMeFOSA	31506-32-8	0.389 U	C2693-FS(0)	1.000	3/23/2024	0.195	0.389	1.57
NEtFOSA	4151-50-2	0.195 U	C2693-FS(0)	1.000	3/23/2024	0.0977	0.195	1.57
NMeFOSAA	2355-31-9	1.28 U	C2693-FS(0)	1.000	3/23/2024	0.641	1.28	1.57
NEtFOSAA	2991-50-6	1.12 U	C2693-FS(0)	1.000	3/23/2024	0.559	1.12	1.57
NMeFOSE	24448-09-7	3.23 U	C2693-FS(0)	1.000	3/23/2024	1.61	3.23	15.7
NEtFOSE	1691-99-2	2.84 U	C2693-FS(0)	1.000	3/23/2024	1.42	2.84	15.7
HFPO-DA	13252-13-6	1.46 U	C2693-FS(0)	1.000	3/23/2024	0.732	1.46	6.26
Adona	919005-14-4	1.36 U	C2693-FS(0)	1.000	3/23/2024	0.679	1.36	6.26
PFMPA	377-73-1	1.23 U	C2693-FS(0)	1.000	3/23/2024	0.614	1.23	3.13
PFMBA	863090-89-5	1.17 U	C2693-FS(0)	1.000	3/23/2024	0.587	1.17	3.13
NFDHA	151772-58-6	1.49 U	C2693-FS(0)	1.000	3/23/2024	0.744	1.49	3.13
9Cl-PF3ONS	756426-58-1	1.37 U	C2693-FS(0)	1.000	3/23/2024	0.684	1.37	6.26
11Cl-PF3OUdS	763051-92-9	2.13 U	C2693-FS(0)	1.000	3/23/2024	1.07	2.13	6.26
PFEESA	113507-82-7	0.415 U	C2693-FS(0)	1.000	3/23/2024	0.207	0.415	3.13
3:3 FTCA	356-02-5	3.27 U	C2693-FS(0)	1.000	3/23/2024	1.63	3.27	7.83
5:3 FTCA	914637-49-3	8.73 U	C2693-FS(0)	1.000	3/23/2024	4.36	8.73	39.1
7:3 FTCA	812-70-4	10.2 U	C2693-FS(0)	1.000	3/23/2024	5.11	10.2	39.1

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-30-20240319
Battelle ID	C2693-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	60	C2693-FS(0)	3/23/2024
13C5-PFPeA	112	C2693-FS(0)	3/23/2024
13C5-PFHxA	90	C2693-FS(0)	3/23/2024
13C4-PFHpA	97	C2693-FS(0)	3/23/2024
13C8-PFOA	102	C2693-FS(0)	3/23/2024
13C9-PFNA	95	C2693-FS(0)	3/23/2024
13C6-PFDA	97	C2693-FS(0)	3/23/2024
13C7-PFUnA	80	C2693-FS(0)	3/23/2024
13C2-PFDoA	74	C2693-FS(0)	3/23/2024
13C2-PFTeDA	37	C2693-FS(0)	3/23/2024
13C3-PFBS	92	C2693-FS(0)	3/23/2024
13C3-PFHxS	98	C2693-FS(0)	3/23/2024
13C8-PFOS	106	C2693-FS(0)	3/23/2024
13C2-4:2FTS	104	C2693-FS(0)	3/23/2024
13C2-6:2FTS	128	C2693-FS(0)	3/23/2024
13C2-8:2FTS	118	C2693-FS(0)	3/23/2024
13C8-PFOSA	103	C2693-FS(0)	3/23/2024
d3-MeFOSA	95	C2693-FS(0)	3/23/2024
d5-EtFOSA	88	C2693-FS(0)	3/23/2024
d3-MeFOSAA	100	C2693-FS(0)	3/23/2024
d5-EtFOSAA	105	C2693-FS(0)	3/23/2024
d7-MeFOSE	76	C2693-FS(0)	3/23/2024
d9-EtFOSE	60	C2693-FS(0)	3/23/2024
13C3-HFPO-DA	98	C2693-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	72	C2693-FS(0)	3/23/2024
13C2-PFHxA	67	C2693-FS(0)	3/23/2024
13C4-PFOA	70	C2693-FS(0)	3/23/2024
13C5-PFNA	69	C2693-FS(0)	3/23/2024
13C2-PFDA	71	C2693-FS(0)	3/23/2024
18O2-PFHxS	73	C2693-FS(0)	3/23/2024
13C4-PFOS	64	C2693-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-20-20240319
Battelle ID	C2694-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.530
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.66	C2694-FS(0)	1.000	3/23/2024	0.563	1.13	6.04
PFPeA	2706-90-3	17.7	C2694-FS(0)	1.000	3/23/2024	0.531	1.06	3.02
PFHxA	307-24-4	17.9	C2694-FS(0)	1.000	3/23/2024	0.389	0.777	1.51
PFHpA	375-85-9	7.26	C2694-FS(0)	1.000	3/23/2024	0.163	0.326	1.51
PFOA	335-67-1	19.7	C2694-FS(0)	1.000	3/23/2024	0.274	0.547	1.51
PFNA	375-95-1	2.89	C2694-FS(0)	1.000	3/23/2024	0.236	0.472	1.51
PFDA	335-76-2	0.421 U	C2694-FS(0)	1.000	3/23/2024	0.210	0.421	1.51
PFUnA	2058-94-8	0.383 U	C2694-FS(0)	1.000	3/23/2024	0.192	0.383	1.51
PFDoA	307-55-1	0.568 U	C2694-FS(0)	1.000	3/23/2024	0.284	0.568	1.51
PFTrDA	72629-94-8	0.685 U	C2694-FS(0)	1.000	3/23/2024	0.342	0.685	1.51
PFTeDA	376-06-7	0.809 U	C2694-FS(0)	1.000	3/23/2024	0.405	0.809	1.51
PFBS	375-73-5	10.7	C2694-FS(0)	1.000	3/23/2024	0.167	0.334	1.51
PFPeS	2706-91-4	6.97	C2694-FS(0)	1.000	3/23/2024	0.122	0.243	1.51
PFHxS	355-46-4	53.1	C2694-FS(0)	1.000	3/23/2024	0.275	0.549	1.51
PFHpS	375-92-8	1.72	C2694-FS(0)	1.000	3/23/2024	0.192	0.385	1.51
PFOS	1763-23-1	91.8	C2694-FS(0)	1.000	3/23/2024	0.234	0.468	1.51
PFNS	68259-12-1	0.470 U	C2694-FS(0)	1.000	3/23/2024	0.235	0.470	1.51
PFDS	335-77-3	0.306 U	C2694-FS(0)	1.000	3/23/2024	0.153	0.306	1.51
PFDoS	79780-39-5	0.340 U	C2694-FS(0)	1.000	3/23/2024	0.170	0.340	1.51
4:2FTS	757124-72-4	2.49 U	C2694-FS(0)	1.000	3/23/2024	1.25	2.49	6.04
6:2FTS	27619-97-2	9.08	C2694-FS(0)	1.000	3/23/2024	1.40	2.79	6.04
8:2FTS	39108-34-4	1.73 U	C2694-FS(0)	1.000	3/23/2024	0.864	1.73	6.04
PFOSA	754-91-6	0.355 U	C2694-FS(0)	1.000	3/23/2024	0.177	0.355	1.51
NMeFOSA	31506-32-8	0.375 U	C2694-FS(0)	1.000	3/23/2024	0.188	0.375	1.51
NEtFOSA	4151-50-2	0.188 U	C2694-FS(0)	1.000	3/23/2024	0.0942	0.188	1.51
NMeFOSAA	2355-31-9	1.24 U	C2694-FS(0)	1.000	3/23/2024	0.618	1.24	1.51
NEtFOSAA	2991-50-6	1.08 U	C2694-FS(0)	1.000	3/23/2024	0.539	1.08	1.51
NMeFOSE	24448-09-7	3.11 U	C2694-FS(0)	1.000	3/23/2024	1.56	3.11	15.1
NEtFOSE	1691-99-2	2.74 U	C2694-FS(0)	1.000	3/23/2024	1.37	2.74	15.1
HFPO-DA	13252-13-6	1.41 U	C2694-FS(0)	1.000	3/23/2024	0.706	1.41	6.04
Adona	919005-14-4	1.31 U	C2694-FS(0)	1.000	3/23/2024	0.655	1.31	6.04
PFMPA	377-73-1	1.18 U	C2694-FS(0)	1.000	3/23/2024	0.592	1.18	3.02
PFMBA	863090-89-5	1.13 U	C2694-FS(0)	1.000	3/23/2024	0.566	1.13	3.02
NFDHA	151772-58-6	1.43 U	C2694-FS(0)	1.000	3/23/2024	0.717	1.43	3.02
9Cl-PF3ONS	756426-58-1	1.32 U	C2694-FS(0)	1.000	3/23/2024	0.659	1.32	6.04
11Cl-PF3OUdS	763051-92-9	2.06 U	C2694-FS(0)	1.000	3/23/2024	1.03	2.06	6.04
PFEESA	113507-82-7	0.400 U	C2694-FS(0)	1.000	3/23/2024	0.200	0.400	3.02
3:3 FTCA	356-02-5	3.15 U	C2694-FS(0)	1.000	3/23/2024	1.58	3.15	7.55
5:3 FTCA	914637-49-3	8.42 U	C2694-FS(0)	1.000	3/23/2024	4.21	8.42	37.7
7:3 FTCA	812-70-4	9.85 U	C2694-FS(0)	1.000	3/23/2024	4.92	9.85	37.7

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-20-20240319
Battelle ID	C2694-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	35	C2694-FS(0)	3/23/2024
13C5-PFPeA	68	C2694-FS(0)	3/23/2024
13C5-PFHxA	60	C2694-FS(0)	3/23/2024
13C4-PFHpA	64	C2694-FS(0)	3/23/2024
13C8-PFOA	64	C2694-FS(0)	3/23/2024
13C9-PFNA	65	C2694-FS(0)	3/23/2024
13C6-PFDA	68	C2694-FS(0)	3/23/2024
13C7-PFUnA	63	C2694-FS(0)	3/23/2024
13C2-PFDoA	53	C2694-FS(0)	3/23/2024
13C2-PFTeDA	33	C2694-FS(0)	3/23/2024
13C3-PFBS	67	C2694-FS(0)	3/23/2024
13C3-PFHxS	64	C2694-FS(0)	3/23/2024
13C8-PFOS	69	C2694-FS(0)	3/23/2024
13C2-4:2FTS	81	C2694-FS(0)	3/23/2024
13C2-6:2FTS	67	C2694-FS(0)	3/23/2024
13C2-8:2FTS	75	C2694-FS(0)	3/23/2024
13C8-PFOSA	60	C2694-FS(0)	3/23/2024
d3-MeFOSA	52	C2694-FS(0)	3/23/2024
d5-EtFOSA	48	C2694-FS(0)	3/23/2024
d3-MeFOSAA	60	C2694-FS(0)	3/23/2024
d5-EtFOSAA	56	C2694-FS(0)	3/23/2024
d7-MeFOSE	42	C2694-FS(0)	3/23/2024
d9-EtFOSE	33	C2694-FS(0)	3/23/2024
13C3-HFPO-DA	65	C2694-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	90	C2694-FS(0)	3/23/2024
13C2-PFHxA	86	C2694-FS(0)	3/23/2024
13C4-PFOA	88	C2694-FS(0)	3/23/2024
13C5-PFNA	84	C2694-FS(0)	3/23/2024
13C2-PFDA	83	C2694-FS(0)	3/23/2024
18O2-PFHxS	91	C2694-FS(0)	3/23/2024
13C4-PFOS	89	C2694-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-19-20240319
Battelle ID	C2695-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.529
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.40	C2695-FS(0)	1.000	3/23/2024	0.564	1.13	6.05
PFPeA	2706-90-3	16.5	C2695-FS(0)	1.000	3/23/2024	0.532	1.06	3.02
PFHxA	307-24-4	18.0	C2695-FS(0)	1.000	3/23/2024	0.389	0.779	1.51
PFHpA	375-85-9	6.91	C2695-FS(0)	1.000	3/23/2024	0.164	0.327	1.51
PFOA	335-67-1	18.1	C2695-FS(0)	1.000	3/23/2024	0.274	0.548	1.51
PFNA	375-95-1	2.52	C2695-FS(0)	1.000	3/23/2024	0.236	0.473	1.51
PFDA	335-76-2	0.497 J	C2695-FS(0)	1.000	3/23/2024	0.211	0.422	1.51
PFUnA	2058-94-8	0.384 U	C2695-FS(0)	1.000	3/23/2024	0.192	0.384	1.51
PFDoA	307-55-1	0.569 U	C2695-FS(0)	1.000	3/23/2024	0.284	0.569	1.51
PFTrDA	72629-94-8	0.686 U	C2695-FS(0)	1.000	3/23/2024	0.343	0.686	1.51
PFTeDA	376-06-7	0.811 U	C2695-FS(0)	1.000	3/23/2024	0.405	0.811	1.51
PFBS	375-73-5	9.96	C2695-FS(0)	1.000	3/23/2024	0.167	0.335	1.51
PFPeS	2706-91-4	7.15	C2695-FS(0)	1.000	3/23/2024	0.122	0.244	1.51
PFHxS	355-46-4	54.0	C2695-FS(0)	1.000	3/23/2024	0.275	0.550	1.51
PFHpS	375-92-8	1.82	C2695-FS(0)	1.000	3/23/2024	0.193	0.386	1.51
PFOS	1763-23-1	92.4	C2695-FS(0)	1.000	3/23/2024	0.234	0.469	1.51
PFNS	68259-12-1	0.471 U	C2695-FS(0)	1.000	3/23/2024	0.235	0.471	1.51
PFDS	335-77-3	0.306 U	C2695-FS(0)	1.000	3/23/2024	0.153	0.306	1.51
PFDoS	79780-39-5	0.340 U	C2695-FS(0)	1.000	3/23/2024	0.170	0.340	1.51
4:2FTS	757124-72-4	2.50 U	C2695-FS(0)	1.000	3/23/2024	1.25	2.50	6.05
6:2FTS	27619-97-2	9.15	C2695-FS(0)	1.000	3/23/2024	1.40	2.80	6.05
8:2FTS	39108-34-4	1.73 U	C2695-FS(0)	1.000	3/23/2024	0.866	1.73	6.05
PFOSA	754-91-6	0.355 U	C2695-FS(0)	1.000	3/23/2024	0.178	0.355	1.51
NMeFOSA	31506-32-8	0.376 U	C2695-FS(0)	1.000	3/23/2024	0.188	0.376	1.51
NEtFOSA	4151-50-2	0.189 U	C2695-FS(0)	1.000	3/23/2024	0.0943	0.189	1.51
NMeFOSAA	2355-31-9	1.24 U	C2695-FS(0)	1.000	3/23/2024	0.619	1.24	1.51
NEtFOSAA	2991-50-6	1.08 U	C2695-FS(0)	1.000	3/23/2024	0.540	1.08	1.51
NMeFOSE	24448-09-7	3.12 U	C2695-FS(0)	1.000	3/23/2024	1.56	3.12	15.1
NEtFOSE	1691-99-2	2.74 U	C2695-FS(0)	1.000	3/23/2024	1.37	2.74	15.1
HFPO-DA	13252-13-6	1.41 U	C2695-FS(0)	1.000	3/23/2024	0.707	1.41	6.05
Adona	919005-14-4	1.31 U	C2695-FS(0)	1.000	3/23/2024	0.656	1.31	6.05
PFMPA	377-73-1	1.19 U	C2695-FS(0)	1.000	3/23/2024	0.594	1.19	3.02
PFMBA	863090-89-5	1.13 U	C2695-FS(0)	1.000	3/23/2024	0.567	1.13	3.02
NFDHA	151772-58-6	1.44 U	C2695-FS(0)	1.000	3/23/2024	0.718	1.44	3.02
9Cl-PF3ONS	756426-58-1	1.32 U	C2695-FS(0)	1.000	3/23/2024	0.661	1.32	6.05
11Cl-PF3OUdS	763051-92-9	2.06 U	C2695-FS(0)	1.000	3/23/2024	1.03	2.06	6.05
PFEESA	113507-82-7	0.401 U	C2695-FS(0)	1.000	3/23/2024	0.200	0.401	3.02
3:3 FTCA	356-02-5	3.16 U	C2695-FS(0)	1.000	3/23/2024	1.58	3.16	7.56
5:3 FTCA	914637-49-3	8.43 U	C2695-FS(0)	1.000	3/23/2024	4.22	8.43	37.8
7:3 FTCA	812-70-4	9.87 U	C2695-FS(0)	1.000	3/23/2024	4.93	9.87	37.8

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-19-20240319
Battelle ID	C2695-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	59	C2695-FS(0)	3/23/2024
13C5-PFPeA	97	C2695-FS(0)	3/23/2024
13C5-PFHxA	83	C2695-FS(0)	3/23/2024
13C4-PFHpA	87	C2695-FS(0)	3/23/2024
13C8-PFOA	94	C2695-FS(0)	3/23/2024
13C9-PFNA	93	C2695-FS(0)	3/23/2024
13C6-PFDA	87	C2695-FS(0)	3/23/2024
13C7-PFUnA	72	C2695-FS(0)	3/23/2024
13C2-PFDoA	60	C2695-FS(0)	3/23/2024
13C2-PFTeDA	37	C2695-FS(0)	3/23/2024
13C3-PFBS	88	C2695-FS(0)	3/23/2024
13C3-PFHxS	91	C2695-FS(0)	3/23/2024
13C8-PFOS	91	C2695-FS(0)	3/23/2024
13C2-4:2FTS	99	C2695-FS(0)	3/23/2024
13C2-6:2FTS	110	C2695-FS(0)	3/23/2024
13C2-8:2FTS	94	C2695-FS(0)	3/23/2024
13C8-PFOSA	81	C2695-FS(0)	3/23/2024
d3-MeFOSA	69	C2695-FS(0)	3/23/2024
d5-EtFOSA	62	C2695-FS(0)	3/23/2024
d3-MeFOSAA	81	C2695-FS(0)	3/23/2024
d5-EtFOSAA	85	C2695-FS(0)	3/23/2024
d7-MeFOSE	56	C2695-FS(0)	3/23/2024
d9-EtFOSE	45	C2695-FS(0)	3/23/2024
13C3-HFPO-DA	91	C2695-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	88	C2695-FS(0)	3/23/2024
13C2-PFHxA	88	C2695-FS(0)	3/23/2024
13C4-PFOA	87	C2695-FS(0)	3/23/2024
13C5-PFNA	93	C2695-FS(0)	3/23/2024
13C2-PFDA	90	C2695-FS(0)	3/23/2024
18O2-PFHxS	86	C2695-FS(0)	3/23/2024
13C4-PFOS	86	C2695-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-02-20240319
Battelle ID	C2696-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.498
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.58	C2696-FS(0)	1.000	3/23/2024	0.599	1.20	6.43
PFPeA	2706-90-3	15.3	C2696-FS(0)	1.000	3/23/2024	0.565	1.13	3.21
PFHxA	307-24-4	18.6	C2696-FS(0)	1.000	3/23/2024	0.414	0.827	1.61
PFHpA	375-85-9	10.3	C2696-FS(0)	1.000	3/23/2024	0.174	0.347	1.61
PFOA	335-67-1	66.9	C2696-FS(0)	1.000	3/23/2024	0.291	0.582	1.61
PFNA	375-95-1	4.54	C2696-FS(0)	1.000	3/23/2024	0.251	0.502	1.61
PFDA	335-76-2	1.01 J	C2696-FS(0)	1.000	3/23/2024	0.224	0.448	1.61
PFUnA	2058-94-8	0.408 U	C2696-FS(0)	1.000	3/23/2024	0.204	0.408	1.61
PFDoA	307-55-1	0.604 U	C2696-FS(0)	1.000	3/23/2024	0.302	0.604	1.61
PFTrDA	72629-94-8	0.729 U	C2696-FS(0)	1.000	3/23/2024	0.364	0.729	1.61
PFTeDA	376-06-7	0.861 U	C2696-FS(0)	1.000	3/23/2024	0.431	0.861	1.61
PFBS	375-73-5	7.97	C2696-FS(0)	1.000	3/23/2024	0.178	0.355	1.61
PFPeS	2706-91-4	5.62	C2696-FS(0)	1.000	3/23/2024	0.130	0.259	1.61
PFHxS	355-46-4	71.9	C2696-FS(0)	1.000	3/23/2024	0.292	0.584	1.61
PFHpS	375-92-8	1.87	C2696-FS(0)	1.000	3/23/2024	0.205	0.410	1.61
PFOS	1763-23-1	117	C2696-FS(0)	1.000	3/23/2024	0.249	0.498	1.61
PFNS	68259-12-1	0.500 U	C2696-FS(0)	1.000	3/23/2024	0.250	0.500	1.61
PFDS	335-77-3	0.325 U	C2696-FS(0)	1.000	3/23/2024	0.163	0.325	1.61
PFDoS	79780-39-5	0.361 U	C2696-FS(0)	1.000	3/23/2024	0.181	0.361	1.61
4:2FTS	757124-72-4	2.65 U	C2696-FS(0)	1.000	3/23/2024	1.33	2.65	6.43
6:2FTS	27619-97-2	2.97 U	C2696-FS(0)	1.000	3/23/2024	1.49	2.97	6.43
8:2FTS	39108-34-4	1.84 U	C2696-FS(0)	1.000	3/23/2024	0.920	1.84	6.43
PFOSA	754-91-6	0.378 U	C2696-FS(0)	1.000	3/23/2024	0.189	0.378	1.61
NMeFOSA	31506-32-8	0.400 U	C2696-FS(0)	1.000	3/23/2024	0.200	0.400	1.61
NEtFOSA	4151-50-2	0.200 U	C2696-FS(0)	1.000	3/23/2024	0.100	0.200	1.61
NMeFOSAA	2355-31-9	1.32 U	C2696-FS(0)	1.000	3/23/2024	0.658	1.32	1.61
NEtFOSAA	2991-50-6	1.15 U	C2696-FS(0)	1.000	3/23/2024	0.573	1.15	1.61
NMeFOSE	24448-09-7	3.31 U	C2696-FS(0)	1.000	3/23/2024	1.66	3.31	16.1
NEtFOSE	1691-99-2	2.91 U	C2696-FS(0)	1.000	3/23/2024	1.46	2.91	16.1
HFPO-DA	13252-13-6	1.50 U	C2696-FS(0)	1.000	3/23/2024	0.751	1.50	6.43
Adona	919005-14-4	1.39 U	C2696-FS(0)	1.000	3/23/2024	0.697	1.39	6.43
PFMPA	377-73-1	1.26 U	C2696-FS(0)	1.000	3/23/2024	0.631	1.26	3.21
PFMBA	863090-89-5	1.20 U	C2696-FS(0)	1.000	3/23/2024	0.602	1.20	3.21
NFDHA	151772-58-6	1.53 U	C2696-FS(0)	1.000	3/23/2024	0.763	1.53	3.21
9Cl-PF3ONS	756426-58-1	1.40 U	C2696-FS(0)	1.000	3/23/2024	0.702	1.40	6.43
11Cl-PF3OUdS	763051-92-9	2.19 U	C2696-FS(0)	1.000	3/23/2024	1.09	2.19	6.43
PFEESA	113507-82-7	0.426 U	C2696-FS(0)	1.000	3/23/2024	0.213	0.426	3.21
3:3 FTCA	356-02-5	3.35 U	C2696-FS(0)	1.000	3/23/2024	1.68	3.35	8.03
5:3 FTCA	914637-49-3	8.96 U	C2696-FS(0)	1.000	3/23/2024	4.48	8.96	40.2
7:3 FTCA	812-70-4	10.5 U	C2696-FS(0)	1.000	3/23/2024	5.24	10.5	40.2

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-02-20240319
Battelle ID	C2696-FS
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	97	C2696-FS(0)	3/23/2024
13C5-PFPeA	103	C2696-FS(0)	3/23/2024
13C5-PFHxA	94	C2696-FS(0)	3/23/2024
13C4-PFHpA	98	C2696-FS(0)	3/23/2024
13C8-PFOA	100	C2696-FS(0)	3/23/2024
13C9-PFNA	107	C2696-FS(0)	3/23/2024
13C6-PFDA	89	C2696-FS(0)	3/23/2024
13C7-PFUnA	77	C2696-FS(0)	3/23/2024
13C2-PFDoA	69	C2696-FS(0)	3/23/2024
13C2-PFTeDA	49	C2696-FS(0)	3/23/2024
13C3-PFBS	107	C2696-FS(0)	3/23/2024
13C3-PFHxS	106	C2696-FS(0)	3/23/2024
13C8-PFOS	96	C2696-FS(0)	3/23/2024
13C2-4:2FTS	126	C2696-FS(0)	3/23/2024
13C2-6:2FTS	117	C2696-FS(0)	3/23/2024
13C2-8:2FTS	83	C2696-FS(0)	3/23/2024
13C8-PFOSA	94	C2696-FS(0)	3/23/2024
d3-MeFOSA	55	C2696-FS(0)	3/23/2024
d5-EtFOSA	47	C2696-FS(0)	3/23/2024
d3-MeFOSAA	91	C2696-FS(0)	3/23/2024
d5-EtFOSAA	87	C2696-FS(0)	3/23/2024
d7-MeFOSE	57	C2696-FS(0)	3/23/2024
d9-EtFOSE	46	C2696-FS(0)	3/23/2024
13C3-HFPO-DA	101	C2696-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	73	C2696-FS(0)	3/23/2024
13C2-PFHxA	73	C2696-FS(0)	3/23/2024
13C4-PFOA	71	C2696-FS(0)	3/23/2024
13C5-PFNA	71	C2696-FS(0)	3/23/2024
13C2-PFDA	74	C2696-FS(0)	3/23/2024
18O2-PFHxS	73	C2696-FS(0)	3/23/2024
13C4-PFOS	73	C2696-FS(0)	3/23/2024

Appendix C

Support Documentation

ANALYTE	ORIGINAL WGNA-SW-39A-20240319	DUPLICATE WGNA-SW-DUP-02-20240319	RL	RPD	RPD > 30% Aqueous	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
11CL-PF3OUDS	2.22	2.01	6.52	9.93	FALSE	FALSE	FALSE	FALSE
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	2.95	2.68	16.3	9.59	FALSE	FALSE	FALSE	FALSE
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	3.36	3.05	16.3	9.67	FALSE	FALSE	FALSE	FALSE
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	3.4	3.09	8.15	9.55	FALSE	FALSE	FALSE	FALSE
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	1.41	1.28	6.52	9.67	FALSE	FALSE	FALSE	FALSE
4:2 FLUOROTELOMER SULFONATE	2.69	2.44	6.52	9.75	FALSE	FALSE	FALSE	FALSE
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	9.08	8.24	40.7	9.70	FALSE	FALSE	FALSE	FALSE
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	3.01	2.74	6.52	9.39	FALSE	FALSE	FALSE	FALSE
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	10.6	9.65	40.7	9.38	FALSE	FALSE	FALSE	FALSE
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	1.87	1.69	6.52	10.11	FALSE	FALSE	FALSE	FALSE
9CL-PF3ONS	1.42	1.29	6.52	9.59	FALSE	FALSE	FALSE	FALSE
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	1.52	1.38	6.52	9.66	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.203	0.184	1.63	9.82	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	1.16	1.06	1.63	9.01	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.405	0.368	1.63	9.57	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	1.33	1.21	1.63	9.45	FALSE	FALSE	FALSE	FALSE
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	1.55	1.4	3.26	10.17	FALSE	FALSE	FALSE	FALSE
PENTADECAFLUOROOCTANOIC ACID (PFOA)	13	13	1.63	0.00	FALSE	TRUE	TRUE	FALSE
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	0.432	0.392	3.26	9.71	FALSE	FALSE	FALSE	FALSE
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	1.28	1.16	3.26	9.84	FALSE	FALSE	FALSE	FALSE
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	1.22	1.11	3.26	9.44	FALSE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID (PFBS)	4.18	4.35	1.63	3.99	FALSE	TRUE	TRUE	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	4.44	4.51	6.52	1.56	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANESULFONIC ACID (PFDS)	0.33	0.299	1.63	9.86	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID (PFDA)	0.454	0.412	1.63	9.70	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANESULFONIC ACID (PFDOS)	0.367	0.333	1.63	9.71	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANOIC ACID (PFDOA)	0.613	0.556	1.63	9.75	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	0.961	0.86	1.63	11.09	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID (PFHPA)	3.32	3.74	1.63	11.90	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	26.6	26.3	1.63	1.13	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANOIC ACID (PFHXA)	7.29	6.89	1.63	5.64	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANESULFONIC ACID (PFNS)	0.507	0.46	1.63	9.72	FALSE	FALSE	FALSE	FALSE
PERFLUORONONANOIC ACID (PFNA)	1.64	1.45	1.63	12.30	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANE SULFONAMIDE (FOSA)	0.383	0.348	1.63	9.58	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANESULFONIC ACID (PFOS)	32.8	33.1	1.63	0.91	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANESULFONIC ACID (PFPES)	3.76	3.5	1.63	7.16	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANOIC ACID (PFPEA)	5.25	5.81	3.26	10.13	FALSE	FALSE	FALSE	FALSE
PERFLUOROTETRADECANOIC ACID (PFTEA)	0.874	0.793	1.63	9.72	FALSE	FALSE	FALSE	FALSE
PERFLUOROTRIDECANOIC ACID (PFTRIA)	0.739	0.671	1.63	9.65	FALSE	FALSE	FALSE	FALSE
PERFLUOROUNDECANOIC ACID (PFUNA)	0.413	0.375	1.63	9.64	FALSE	FALSE	FALSE	FALSE

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Client Contact Information Tricia Moore 234 Mall Boulevard, Suite 260 King of Prussia, PA 19406 610-382-1170	Project Manager: Heather Thurston Sampler Information (print name): Chris Sinisi Phone: 610-382-1524 Email: chris.sinisi@tetratech.com Turnaround Time (TAT) Requested: 21 days	Sampling Site: Surface Water	Site Information: NAS JRB Willow Grove
Project Name: Surface Water Sampling Project No.: **WR-125**	Normal ☑ Priority ☐ RUSH ☐ Time Zone: Eastern		

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.	Preservative: None	Analysis: PFAS by EPA Draft Method 1633 compliant with Table B-24 of the QSM	COC # / Page# 1 of 1
WGNA-FB-20240319	3/19/2024	1010	G	QC	2		X	C2685 Field Blank
WGNA-SW-36A-20240319	3/19/2024	1020	G	SW	3		X	86
WGNA-SW-36-20240319	3/19/2024	1105	G	SW	9		X	87 MS/MSD
WGNA-SW-34A-20240319	3/19/2024	1132	G	SW	3		X	88
WGNA-SW-42-20240319	3/19/2024	1155	G	SW	3		X	89
WGNA-SW-41-20240319	3/19/2024	1315	G	SW	3		X	90
WGNA-SW-39A-20240319	3/19/2024	1340	G	SW	3		X	91
WGNA-SW-33-20240319	3/19/2024	1355	G	SW	3		X	92
WGNA-SW-30-20240319	3/19/2024	1410	G	SW	3		X	93
WGNA-SW-20-20240319	3/19/2024	1424	G	SW	3		X	94
WGNA-SW-19-20240319	3/19/2024	1445	G	SW	3		X	95
WGNA-SW-DUP-02-20240319	3/19/2024	0000	G	SW	3		X	C2696

Receipt Temperature:(°C)	Samples Intact: Yes - No	Samples on Ice: Yes - No	Receipt Comments:

Relinquished by (Print Sign): Chris Sinisi	Company: Tetra Tech	Date/Time: 3/19/2024 1800	Received by (Print Sign):	Company: BNU	Date Time: 3/20/24 1000
Relinquished by (Print Sign):	Company:	Date Time:	Received by (Print Sign):	Company:	Date Time:
Relinquished by (Print Sign):	Company:	Date Time:	Received by (Print Sign):	Company:	Date Time:

Comments: FedEx Tracking # 7756 0657 4854

Sample Summary

Client: Tetra Tech
SDG: 24-0207
Project/Site: NAS JRB Willow Grove
CTO: WE04

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DQ752PB-FS	Procedural Blank	WATER	3/21/2024	3/21/2024
DQ753LCS-FS	Laboratory Control Sample	WATER	3/21/2024	3/21/2024
DQ754LCS-FS	Laboratory Control Sample	WATER	3/21/2024	3/21/2024
C2685-FS	WGNA-FB-20240319	QC	3/19/2024	3/20/2024
C2686-FS	WGNA-SW-36A-20240319	SW	3/19/2024	3/20/2024
C2687-FS	WGNA-SW-36-20240319	SW	3/19/2024	3/20/2024
C2687MS-FS	WGNA-SW-36-20240319	SW	3/19/2024	3/20/2024
C2687MSD-FS	WGNA-SW-36-20240319	SW	3/19/2024	3/20/2024
C2688-FS	WGNA-SW-34A-20240319	SW	3/19/2024	3/20/2024
C2689-FS	WGNA-SW-42-20240319	SW	3/19/2024	3/20/2024
C2690-FS	WGNA-SW-41-20240319	SW	3/19/2024	3/20/2024
C2691-FS	WGNA-SW-39A-20240319	SW	3/19/2024	3/20/2024
C2692-FS	WGNA-SW-33-20240319	SW	3/19/2024	3/20/2024
C2693-FS	WGNA-SW-30-20240319	SW	3/19/2024	3/20/2024
C2694-FS	WGNA-SW-20-20240319	SW	3/19/2024	3/20/2024
C2695-FS	WGNA-SW-19-20240319	SW	3/19/2024	3/20/2024
C2696-FS	WGNA-SW-DUP-02-20240319	SW	3/19/2024	3/20/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MB88 IB				MB88 IB			
Battelle ID		MB88 IB_03/22/2024 22:51				MB88 IB_03/23/2024 00:45			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/22/2024				03/23/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MB88 IB	MB88 IB
Battelle ID	MB88 IB_03/22/2024 22:51	MB88 IB_03/23/2024 00:45
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/22/2024	03/23/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	100	100
13C5-PFPeA	103	100
13C5-PFHxA	104	105
13C4-PFHpA	104	103
13C8-PFOA	106	104
13C9-PFNA	98	98
13C6-PFDA	102	92
13C7-PFUnA	99	95
13C2-PFDoA	109	113
13C2-PFTeDA	103	99
13C3-PFBS	102	112
13C3-PFHxS	104	92
13C8-PFOS	105	108
13C2-4:2FTS	114	117
13C2-6:2FTS	102	103
13C2-8:2FTS	104	112
13C8-PFOSA	108	104
d3-MeFOSA	110	108
d5-EtFOSA	110	107
d3-MeFOSAA	113	107
d5-EtFOSAA	117	116
d7-MeFOSE	109	111
d9-EtFOSE	108	107
13C3-HFPO-DA	100	97
NIS Recoveries (%)		
13C3-PFBA	113	103
13C2-PFHxA	103	101
13C4-PFOA	103	99
13C5-PFNA	107	105
13C2-PFDA	104	101
18O2-PFHxS	110	101
13C4-PFOS	98	95

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MB88 IB				MB88 IB			
Battelle ID		MB88 IB_03/23/2024 05:19				MB88 IB_03/23/2024 09:29			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/23/2024				03/23/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MB88 IB	MB88 IB
Battelle ID	MB88 IB_03/23/2024 05:19	MB88 IB_03/23/2024 09:29
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/23/2024	03/23/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	100	99
13C5-PFPeA	101	102
13C5-PFHxA	106	102
13C4-PFHpA	103	100
13C8-PFOA	103	100
13C9-PFNA	104	94
13C6-PFDA	99	95
13C7-PFUnA	96	92
13C2-PFDoA	104	104
13C2-PFTeDA	112	102
13C3-PFBS	106	105
13C3-PFHxS	98	105
13C8-PFOS	109	102
13C2-4:2FTS	114	120
13C2-6:2FTS	102	105
13C2-8:2FTS	102	98
13C8-PFOSA	101	99
d3-MeFOSA	103	100
d5-EtFOSA	105	99
d3-MeFOSAA	106	114
d5-EtFOSAA	115	133
d7-MeFOSE	107	107
d9-EtFOSE	111	104
13C3-HFPO-DA	99	102
NIS Recoveries (%)		
13C3-PFBA	108	107
13C2-PFHxA	103	103
13C4-PFOA	107	110
13C5-PFNA	105	108
13C2-PFDA	103	110
18O2-PFHxS	105	104
13C4-PFOS	97	100

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ752PB-FS
Sample Type	PB
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.507
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.18 U	DQ752PB-FS(0)	1.000	3/23/2024	0.589	1.18	6.31
PFPeA	2706-90-3	1.11 U	DQ752PB-FS(0)	1.000	3/23/2024	0.555	1.11	3.16
PFHxA	307-24-4	0.813 U	DQ752PB-FS(0)	1.000	3/23/2024	0.406	0.813	1.58
PFHpA	375-85-9	0.341 U	DQ752PB-FS(0)	1.000	3/23/2024	0.171	0.341	1.58
PFOA	335-67-1	0.572 U	DQ752PB-FS(0)	1.000	3/23/2024	0.286	0.572	1.58
PFNA	375-95-1	0.493 U	DQ752PB-FS(0)	1.000	3/23/2024	0.247	0.493	1.58
PFDA	335-76-2	0.440 U	DQ752PB-FS(0)	1.000	3/23/2024	0.220	0.440	1.58
PFUnA	2058-94-8	0.400 U	DQ752PB-FS(0)	1.000	3/23/2024	0.200	0.400	1.58
PFDoA	307-55-1	0.594 U	DQ752PB-FS(0)	1.000	3/23/2024	0.297	0.594	1.58
PFTrDA	72629-94-8	0.716 U	DQ752PB-FS(0)	1.000	3/23/2024	0.358	0.716	1.58
PFTeDA	376-06-7	0.846 U	DQ752PB-FS(0)	1.000	3/23/2024	0.423	0.846	1.58
PFBS	375-73-5	0.349 U	DQ752PB-FS(0)	1.000	3/23/2024	0.175	0.349	1.58
PFPeS	2706-91-4	0.254 U	DQ752PB-FS(0)	1.000	3/23/2024	0.127	0.254	1.58
PFHxS	355-46-4	0.574 U	DQ752PB-FS(0)	1.000	3/23/2024	0.287	0.574	1.58
PFHpS	375-92-8	0.402 U	DQ752PB-FS(0)	1.000	3/23/2024	0.201	0.402	1.58
PFOS	1763-23-1	0.489 U	DQ752PB-FS(0)	1.000	3/23/2024	0.245	0.489	1.58
PFNS	68259-12-1	0.491 U	DQ752PB-FS(0)	1.000	3/23/2024	0.246	0.491	1.58
PFDS	335-77-3	0.320 U	DQ752PB-FS(0)	1.000	3/23/2024	0.160	0.320	1.58
PFDoS	79780-39-5	0.355 U	DQ752PB-FS(0)	1.000	3/23/2024	0.178	0.355	1.58
4:2FTS	757124-72-4	2.60 U	DQ752PB-FS(0)	1.000	3/23/2024	1.30	2.60	6.31
6:2FTS	27619-97-2	2.92 U	DQ752PB-FS(0)	1.000	3/23/2024	1.46	2.92	6.31
8:2FTS	39108-34-4	1.81 U	DQ752PB-FS(0)	1.000	3/23/2024	0.903	1.81	6.31
PFOSA	754-91-6	0.371 U	DQ752PB-FS(0)	1.000	3/23/2024	0.185	0.371	1.58
NMeFOSA	31506-32-8	0.393 U	DQ752PB-FS(0)	1.000	3/23/2024	0.196	0.393	1.58
NEtFOSA	4151-50-2	0.197 U	DQ752PB-FS(0)	1.000	3/23/2024	0.0984	0.197	1.58
NMeFOSAA	2355-31-9	1.29 U	DQ752PB-FS(0)	1.000	3/23/2024	0.646	1.29	1.58
NEtFOSAA	2991-50-6	1.13 U	DQ752PB-FS(0)	1.000	3/23/2024	0.563	1.13	1.58
NMeFOSE	24448-09-7	3.25 U	DQ752PB-FS(0)	1.000	3/23/2024	1.63	3.25	15.8
NEtFOSE	1691-99-2	2.86 U	DQ752PB-FS(0)	1.000	3/23/2024	1.43	2.86	15.8
HFPO-DA	13252-13-6	1.48 U	DQ752PB-FS(0)	1.000	3/23/2024	0.738	1.48	6.31
Adona	919005-14-4	1.37 U	DQ752PB-FS(0)	1.000	3/23/2024	0.684	1.37	6.31
PFMPA	377-73-1	1.24 U	DQ752PB-FS(0)	1.000	3/23/2024	0.619	1.24	3.16
PFMBA	863090-89-5	1.18 U	DQ752PB-FS(0)	1.000	3/23/2024	0.592	1.18	3.16
NFDHA	151772-58-6	1.50 U	DQ752PB-FS(0)	1.000	3/23/2024	0.750	1.50	3.16
9Cl-PF3ONS	756426-58-1	1.38 U	DQ752PB-FS(0)	1.000	3/23/2024	0.689	1.38	6.31
11Cl-PF3OUdS	763051-92-9	2.15 U	DQ752PB-FS(0)	1.000	3/23/2024	1.07	2.15	6.31
PFEESA	113507-82-7	0.418 U	DQ752PB-FS(0)	1.000	3/23/2024	0.209	0.418	3.16
3:3 FTCA	356-02-5	3.29 U	DQ752PB-FS(0)	1.000	3/23/2024	1.65	3.29	7.89
5:3 FTCA	914637-49-3	8.80 U	DQ752PB-FS(0)	1.000	3/23/2024	4.40	8.80	39.4
7:3 FTCA	812-70-4	10.3 U	DQ752PB-FS(0)	1.000	3/23/2024	5.15	10.3	39.4

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ752PB-FS
Sample Type	PB
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	70	DQ752PB-FS(0)	3/23/2024
13C5-PFPeA	69	DQ752PB-FS(0)	3/23/2024
13C5-PFHxA	69	DQ752PB-FS(0)	3/23/2024
13C4-PFHpA	70	DQ752PB-FS(0)	3/23/2024
13C8-PFOA	71	DQ752PB-FS(0)	3/23/2024
13C9-PFNA	72	DQ752PB-FS(0)	3/23/2024
13C6-PFDA	67	DQ752PB-FS(0)	3/23/2024
13C7-PFUnA	66	DQ752PB-FS(0)	3/23/2024
13C2-PFDoA	70	DQ752PB-FS(0)	3/23/2024
13C2-PFTeDA	64	DQ752PB-FS(0)	3/23/2024
13C3-PFBS	77	DQ752PB-FS(0)	3/23/2024
13C3-PFHxS	71	DQ752PB-FS(0)	3/23/2024
13C8-PFOS	83	DQ752PB-FS(0)	3/23/2024
13C2-4:2FTS	90	DQ752PB-FS(0)	3/23/2024
13C2-6:2FTS	71	DQ752PB-FS(0)	3/23/2024
13C2-8:2FTS	75	DQ752PB-FS(0)	3/23/2024
13C8-PFOSA	69	DQ752PB-FS(0)	3/23/2024
d3-MeFOSA	49	DQ752PB-FS(0)	3/23/2024
d5-EtFOSA	52	DQ752PB-FS(0)	3/23/2024
d3-MeFOSAA	66	DQ752PB-FS(0)	3/23/2024
d5-EtFOSAA	86	DQ752PB-FS(0)	3/23/2024
d7-MeFOSE	71	DQ752PB-FS(0)	3/23/2024
d9-EtFOSE	63	DQ752PB-FS(0)	3/23/2024
13C3-HFPO-DA	65	DQ752PB-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	69	DQ752PB-FS(0)	3/23/2024
13C2-PFHxA	70	DQ752PB-FS(0)	3/23/2024
13C4-PFOA	65	DQ752PB-FS(0)	3/23/2024
13C5-PFNA	61	DQ752PB-FS(0)	3/23/2024
13C2-PFDA	64	DQ752PB-FS(0)	3/23/2024
18O2-PFHxS	66	DQ752PB-FS(0)	3/23/2024
13C4-PFOS	61	DQ752PB-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ753LCS-FS
Sample Type	OPR
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.504
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	93.6	DQ753LCS-FS(0)	1.000	3/23/2024	79.4	118		70	140
PFPeA	2706-90-3	50.1	DQ753LCS-FS(0)	1.000	3/23/2024	39.7	126		65	135
PFHxA	307-24-4	23.3	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	118		70	145
PFHpA	375-85-9	23.9	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	121		70	150
PFOA	335-67-1	28.1	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	142		70	150
PFNA	375-95-1	25.7	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	130		70	150
PFDA	335-76-2	26.3	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	133		70	140
PFUnA	2058-94-8	25.1	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	127		70	145
PFDoA	307-55-1	22.2	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	112		70	140
PFTrDA	72629-94-8	23.4	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	118		65	140
PFTeDA	376-06-7	24.3	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	123		60	140
PFBS	375-73-5	20.5	DQ753LCS-FS(0)	1.000	3/23/2024	17.6	116		60	145
PFPeS	2706-91-4	21.6	DQ753LCS-FS(0)	1.000	3/23/2024	18.7	116		65	140
PFHxS	355-46-4	21.5	DQ753LCS-FS(0)	1.000	3/23/2024	18.1	119		65	145
PFHpS	375-92-8	21.2	DQ753LCS-FS(0)	1.000	3/23/2024	18.9	112		70	150
PFOS	1763-23-1	20.8	DQ753LCS-FS(0)	1.000	3/23/2024	18.4	113		55	150
PFNS	68259-12-1	20.5	DQ753LCS-FS(0)	1.000	3/23/2024	19.1	107		65	145
PFDS	335-77-3	20.9	DQ753LCS-FS(0)	1.000	3/23/2024	19.2	109		60	145
PFDoS	79780-39-5	20.3	DQ753LCS-FS(0)	1.000	3/23/2024	19.3	105		50	145
4:2FTS	757124-72-4	94.5	DQ753LCS-FS(0)	1.000	3/23/2024	74.4	127		70	145
6:2FTS	27619-97-2	103	DQ753LCS-FS(0)	1.000	3/23/2024	75.4	137		65	155
8:2FTS	39108-34-4	113	DQ753LCS-FS(0)	1.000	3/23/2024	76.2	148		60	150
PFOSA	754-91-6	24.5	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	124		70	145
NMeFOSA	31506-32-8	23.1	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	117		60	150
NEtFOSA	4151-50-2	25.0	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	126		65	145
NMeFOSAA	2355-31-9	22.9	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	116		50	140
NEtFOSAA	2991-50-6	21.4	DQ753LCS-FS(0)	1.000	3/23/2024	19.8	108		70	145
NMeFOSE	24448-09-7	227	DQ753LCS-FS(0)	1.000	3/23/2024	198	115		70	145
NEtFOSE	1691-99-2	247	DQ753LCS-FS(0)	1.000	3/23/2024	198	125		70	135
HFPO-DA	13252-13-6	96.1	DQ753LCS-FS(0)	1.000	3/23/2024	79.4	121		70	140
Adona	919005-14-4	97.8	DQ753LCS-FS(0)	1.000	3/23/2024	75.0	130		65	145
PFMPA	377-73-1	49.5	DQ753LCS-FS(0)	1.000	3/23/2024	39.7	125		55	140
PFMBA	863090-89-5	50.5	DQ753LCS-FS(0)	1.000	3/23/2024	39.7	127		60	150
NFDHA	151772-58-6	49.2	DQ753LCS-FS(0)	1.000	3/23/2024	39.7	124		50	150
9Cl-PF3ONS	756426-58-1	92.0	DQ753LCS-FS(0)	1.000	3/23/2024	74.2	124		70	155
11Cl-PF3OUdS	763051-92-9	96.0	DQ753LCS-FS(0)	1.000	3/23/2024	75.0	128		55	160
PFEESA	113507-82-7	43.0	DQ753LCS-FS(0)	1.000	3/23/2024	35.3	122		70	140
3:3 FTCA	356-02-5	115	DQ753LCS-FS(0)	1.000	3/23/2024	99.2	116		65	130
5:3 FTCA	914637-49-3	571	DQ753LCS-FS(0)	1.000	3/23/2024	496	115		70	135
7:3 FTCA	812-70-4	562	DQ753LCS-FS(0)	1.000	3/23/2024	496	113		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ753LCS-FS
Sample Type	OPR
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	70	DQ753LCS-FS(0)	3/23/2024
13C5-PFPeA	65	DQ753LCS-FS(0)	3/23/2024
13C5-PFHxA	67	DQ753LCS-FS(0)	3/23/2024
13C4-PFHpA	66	DQ753LCS-FS(0)	3/23/2024
13C8-PFOA	71	DQ753LCS-FS(0)	3/23/2024
13C9-PFNA	70	DQ753LCS-FS(0)	3/23/2024
13C6-PFDA	64	DQ753LCS-FS(0)	3/23/2024
13C7-PFUnA	62	DQ753LCS-FS(0)	3/23/2024
13C2-PFDoA	66	DQ753LCS-FS(0)	3/23/2024
13C2-PFTeDA	60	DQ753LCS-FS(0)	3/23/2024
13C3-PFBS	76	DQ753LCS-FS(0)	3/23/2024
13C3-PFHxS	74	DQ753LCS-FS(0)	3/23/2024
13C8-PFOS	79	DQ753LCS-FS(0)	3/23/2024
13C2-4:2FTS	81	DQ753LCS-FS(0)	3/23/2024
13C2-6:2FTS	75	DQ753LCS-FS(0)	3/23/2024
13C2-8:2FTS	64	DQ753LCS-FS(0)	3/23/2024
13C8-PFOSA	69	DQ753LCS-FS(0)	3/23/2024
d3-MeFOSA	52	DQ753LCS-FS(0)	3/23/2024
d5-EtFOSA	55	DQ753LCS-FS(0)	3/23/2024
d3-MeFOSAA	73	DQ753LCS-FS(0)	3/23/2024
d5-EtFOSAA	74	DQ753LCS-FS(0)	3/23/2024
d7-MeFOSE	70	DQ753LCS-FS(0)	3/23/2024
d9-EtFOSE	65	DQ753LCS-FS(0)	3/23/2024
13C3-HFPO-DA	64	DQ753LCS-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	82	DQ753LCS-FS(0)	3/23/2024
13C2-PFHxA	85	DQ753LCS-FS(0)	3/23/2024
13C4-PFOA	80	DQ753LCS-FS(0)	3/23/2024
13C5-PFNA	82	DQ753LCS-FS(0)	3/23/2024
13C2-PFDA	84	DQ753LCS-FS(0)	3/23/2024
18O2-PFHxS	76	DQ753LCS-FS(0)	3/23/2024
13C4-PFOS	75	DQ753LCS-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ754LCS-FS
Sample Type	LLOPR
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.503
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	12.8	DQ754LCS-FS(0)	1.000	3/23/2024	12.7	101		70	140
PFPeA	2706-90-3	6.85	DQ754LCS-FS(0)	1.000	3/23/2024	6.36	108		65	135
PFHxA	307-24-4	3.74	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	118		70	145
PFHpA	375-85-9	3.50	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	110		70	150
PFOA	335-67-1	4.29	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	135		70	150
PFNA	375-95-1	4.70	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	148		70	150
PFDA	335-76-2	3.01	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	95		70	140
PFUnA	2058-94-8	3.15	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	99		70	145
PFDoA	307-55-1	3.60	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	113		70	140
PFTrDA	72629-94-8	4.05	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	127		65	140
PFTeDA	376-06-7	3.33	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	105		60	140
PFBS	375-73-5	2.82	DQ754LCS-FS(0)	1.000	3/23/2024	2.82	100		60	145
PFPeS	2706-91-4	3.21	DQ754LCS-FS(0)	1.000	3/23/2024	2.99	107		65	140
PFHxS	355-46-4	3.20	DQ754LCS-FS(0)	1.000	3/23/2024	2.91	110		65	145
PFHpS	375-92-8	3.51	DQ754LCS-FS(0)	1.000	3/23/2024	3.03	116		70	150
PFOS	1763-23-1	3.10	DQ754LCS-FS(0)	1.000	3/23/2024	2.95	105		55	150
PFNS	68259-12-1	3.26	DQ754LCS-FS(0)	1.000	3/23/2024	3.06	107		65	145
PFDS	335-77-3	3.23	DQ754LCS-FS(0)	1.000	3/23/2024	3.07	105		60	145
PFDoS	79780-39-5	3.58	DQ754LCS-FS(0)	1.000	3/23/2024	3.09	116		50	145
4:2FTS	757124-72-4	12.6	DQ754LCS-FS(0)	1.000	3/23/2024	11.9	106		70	145
6:2FTS	27619-97-2	13.1	DQ754LCS-FS(0)	1.000	3/23/2024	12.1	108		65	155
8:2FTS	39108-34-4	12.9	DQ754LCS-FS(0)	1.000	3/23/2024	12.2	106		60	150
PFOSA	754-91-6	3.87	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	122		70	145
NMeFOSA	31506-32-8	3.07	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	97		60	150
NEtFOSA	4151-50-2	3.58	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	113		65	145
NMeFOSAA	2355-31-9	3.44	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	108		50	140
NEtFOSAA	2991-50-6	3.52	DQ754LCS-FS(0)	1.000	3/23/2024	3.18	111		70	145
NMeFOSE	24448-09-7	31.2	DQ754LCS-FS(0)	1.000	3/23/2024	31.8	98		70	145
NEtFOSE	1691-99-2	35.6	DQ754LCS-FS(0)	1.000	3/23/2024	31.8	112		70	135
HFPO-DA	13252-13-6	12.8	DQ754LCS-FS(0)	1.000	3/23/2024	12.7	101		70	140
Adona	919005-14-4	14.6	DQ754LCS-FS(0)	1.000	3/23/2024	12.0	122		65	145
PFMPA	377-73-1	6.26	DQ754LCS-FS(0)	1.000	3/23/2024	6.36	98		55	140
PFMBA	863090-89-5	6.55	DQ754LCS-FS(0)	1.000	3/23/2024	6.36	103		60	150
NFDHA	151772-58-6	7.11	DQ754LCS-FS(0)	1.000	3/23/2024	6.36	112		50	150
9Cl-PF3ONS	756426-58-1	13.9	DQ754LCS-FS(0)	1.000	3/23/2024	11.9	117		70	155
11Cl-PF3OUdS	763051-92-9	14.6	DQ754LCS-FS(0)	1.000	3/23/2024	12.0	122		55	160
PFEESA	113507-82-7	6.02	DQ754LCS-FS(0)	1.000	3/23/2024	5.66	106		70	140
3:3 FTCA	356-02-5	15.0	DQ754LCS-FS(0)	1.000	3/23/2024	15.9	94		65	130
5:3 FTCA	914637-49-3	80.0	DQ754LCS-FS(0)	1.000	3/23/2024	79.5	101		70	135
7:3 FTCA	812-70-4	73.5	DQ754LCS-FS(0)	1.000	3/23/2024	79.5	92		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ754LCS-FS
Sample Type	LLOPR
Collection Date	03/21/2024
Extraction Date	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	64	DQ754LCS-FS(0)	3/23/2024
13C5-PFPeA	61	DQ754LCS-FS(0)	3/23/2024
13C5-PFHxA	66	DQ754LCS-FS(0)	3/23/2024
13C4-PFHpA	62	DQ754LCS-FS(0)	3/23/2024
13C8-PFOA	71	DQ754LCS-FS(0)	3/23/2024
13C9-PFNA	64	DQ754LCS-FS(0)	3/23/2024
13C6-PFDA	65	DQ754LCS-FS(0)	3/23/2024
13C7-PFUnA	68	DQ754LCS-FS(0)	3/23/2024
13C2-PFDoA	59	DQ754LCS-FS(0)	3/23/2024
13C2-PFTeDA	60	DQ754LCS-FS(0)	3/23/2024
13C3-PFBS	76	DQ754LCS-FS(0)	3/23/2024
13C3-PFHxS	65	DQ754LCS-FS(0)	3/23/2024
13C8-PFOS	72	DQ754LCS-FS(0)	3/23/2024
13C2-4:2FTS	76	DQ754LCS-FS(0)	3/23/2024
13C2-6:2FTS	72	DQ754LCS-FS(0)	3/23/2024
13C2-8:2FTS	69	DQ754LCS-FS(0)	3/23/2024
13C8-PFOSA	65	DQ754LCS-FS(0)	3/23/2024
d3-MeFOSA	51	DQ754LCS-FS(0)	3/23/2024
d5-EtFOSA	53	DQ754LCS-FS(0)	3/23/2024
d3-MeFOSAA	73	DQ754LCS-FS(0)	3/23/2024
d5-EtFOSAA	65	DQ754LCS-FS(0)	3/23/2024
d7-MeFOSE	71	DQ754LCS-FS(0)	3/23/2024
d9-EtFOSE	65	DQ754LCS-FS(0)	3/23/2024
13C3-HFPO-DA	59	DQ754LCS-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	75	DQ754LCS-FS(0)	3/23/2024
13C2-PFHxA	79	DQ754LCS-FS(0)	3/23/2024
13C4-PFOA	70	DQ754LCS-FS(0)	3/23/2024
13C5-PFNA	73	DQ754LCS-FS(0)	3/23/2024
13C2-PFDA	76	DQ754LCS-FS(0)	3/23/2024
18O2-PFHxS	72	DQ754LCS-FS(0)	3/23/2024
13C4-PFOS	68	DQ754LCS-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

			MS/MSD Background Sample								
Client ID		WGNA-SW-36-20240319	WGNA-SW-36-20240319								
Battelle ID		C2687MS-FS	C2687-FS								
Sample Type		MS	SA								
Collection Date		03/19/2024	03/19/2024								
Extraction Date		03/21/2024	03/21/2024								
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS								
% Moisture		NA	NA								
Matrix		SW	SW								
Sample Size		0.531	0.532								
Size Unit-Basis		L	L			Analysis				Control Limits	
Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Date	Target	Recovery	Qual	Lower	Upper
PFBA	375-22-4	88.9	7.23	C2687MS-FS(0)	1.000	3/23/2024	75.3	108		70	140
PFPeA	2706-90-3	57.2	14.6	C2687MS-FS(0)	1.000	3/23/2024	37.7	113		65	135
PFHxA	307-24-4	34.5	14.2	C2687MS-FS(0)	1.000	3/23/2024	18.8	108		70	145
PFHpA	375-85-9	27.0	5.75	C2687MS-FS(0)	1.000	3/23/2024	18.8	113		70	150
PFOA	335-67-1	43.5	18.3	C2687MS-FS(0)	1.000	3/23/2024	18.8	134		70	150
PFNA	375-95-1	25.3	1.98	C2687MS-FS(0)	1.000	3/23/2024	18.8	124		70	150
PFDA	335-76-2	21.8	0.419 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	116		70	140
PFUnA	2058-94-8	21.2	0.382 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	113		70	145
PFDoA	307-55-1	20.2	0.566 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	107		70	140
PFTrDA	72629-94-8	16.6	0.682 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	88		65	140
PFTeDA	376-06-7	25.7	0.806 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	137		60	140
PFBS	375-73-5	27.6	9.90	C2687MS-FS(0)	1.000	3/23/2024	16.7	106		60	145
PFPeS	2706-91-4	23.1	4.57	C2687MS-FS(0)	1.000	3/23/2024	17.7	105		65	140
PFHxS	355-46-4	50.8	35.3	C2687MS-FS(0)	1.000	3/23/2024	17.2	90		65	145
PFHpS	375-92-8	20.2	1.44 J	C2687MS-FS(0)	1.000	3/23/2024	18.0	104		70	150
PFOS	1763-23-1	74.7	56.3	C2687MS-FS(0)	1.000	3/23/2024	17.5	105		55	150
PFNS	68259-12-1	19.3	0.468 U	C2687MS-FS(0)	1.000	3/23/2024	18.1	107		65	145
PFDS	335-77-3	15.9	0.305 U	C2687MS-FS(0)	1.000	3/23/2024	18.2	87		60	145
PFDoS	79780-39-5	12.4	0.338 U	C2687MS-FS(0)	1.000	3/23/2024	18.3	68		50	145
4:2FTS	757124-72-4	80.7	2.48 U	C2687MS-FS(0)	1.000	3/23/2024	70.6	114		70	145
6:2FTS	27619-97-2	91.7	5.13 J	C2687MS-FS(0)	1.000	3/23/2024	71.6	121		65	155
8:2FTS	39108-34-4	81.3	1.72 U	C2687MS-FS(0)	1.000	3/23/2024	72.3	112		60	150
PFOSA	754-91-6	22.1	0.353 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	118		70	145
NMeFOSA	31506-32-8	21.8	0.374 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	116		60	150
NEtFOSA	4151-50-2	21.3	0.188 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	113		65	145
NMeFOSAA	2355-31-9	21.9	1.23 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	116		50	140
NEtFOSAA	2991-50-6	20.6	1.07 U	C2687MS-FS(0)	1.000	3/23/2024	18.8	110		70	145
NMeFOSE	24448-09-7	202	3.10 U	C2687MS-FS(0)	1.000	3/23/2024	188	107		70	145
NEtFOSE	1691-99-2	232	2.73 U	C2687MS-FS(0)	1.000	3/23/2024	188	123		70	135
HFPO-DA	13252-13-6	78.0	1.41 U	C2687MS-FS(0)	1.000	3/23/2024	75.3	104		70	140
Adona	919005-14-4	75.3	1.30 U	C2687MS-FS(0)	1.000	3/23/2024	71.2	106		65	145
PFMPA	377-73-1	38.9	1.18 U	C2687MS-FS(0)	1.000	3/23/2024	37.7	103		55	140
PFMBA	863090-89-5	39.5	1.13 U	C2687MS-FS(0)	1.000	3/23/2024	37.7	105		60	150
NFDHA	151772-58-6	46.3	1.43 U	C2687MS-FS(0)	1.000	3/23/2024	37.7	123		50	150
9Cl-PF3ONS	756426-58-1	77.1	1.31 U	C2687MS-FS(0)	1.000	3/23/2024	70.4	110		70	155
11Cl-PF3OUdS	763051-92-9	54.0	2.05 U	C2687MS-FS(0)	1.000	3/23/2024	71.2	76		55	160
PFEESA	113507-82-7	38.5	0.398 U	C2687MS-FS(0)	1.000	3/23/2024	33.5	115		70	140
3:3 FTCA	356-02-5	107	3.14 U	C2687MS-FS(0)	1.000	3/23/2024	94.2	114		65	130
5:3 FTCA	914637-49-3	500	8.38 U	C2687MS-FS(0)	1.000	3/23/2024	471	106		70	135
7:3 FTCA	812-70-4	573	9.81 U	C2687MS-FS(0)	1.000	3/23/2024	471	122		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

		MS/MSD Background Sample
Client ID	WGNA-SW-36-20240319	WGNA-SW-36-20240319
Battelle ID	C2687MS-FS	C2687-FS
Sample Type	MS	SA
Collection Date	03/19/2024	03/19/2024
Extraction Date	03/21/2024	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	62	C2687MS-FS(0)	3/23/2024
13C5-PFPeA	74	C2687MS-FS(0)	3/23/2024
13C5-PFHxA	65	C2687MS-FS(0)	3/23/2024
13C4-PFHpA	65	C2687MS-FS(0)	3/23/2024
13C8-PFOA	72	C2687MS-FS(0)	3/23/2024
13C9-PFNA	73	C2687MS-FS(0)	3/23/2024
13C6-PFDA	64	C2687MS-FS(0)	3/23/2024
13C7-PFUnA	59	C2687MS-FS(0)	3/23/2024
13C2-PFDoA	50	C2687MS-FS(0)	3/23/2024
13C2-PFTeDA	25	C2687MS-FS(0)	3/23/2024
13C3-PFBS	64	C2687MS-FS(0)	3/23/2024
13C3-PFHxS	65	C2687MS-FS(0)	3/23/2024
13C8-PFOS	71	C2687MS-FS(0)	3/23/2024
13C2-4:2FTS	75	C2687MS-FS(0)	3/23/2024
13C2-6:2FTS	68	C2687MS-FS(0)	3/23/2024
13C2-8:2FTS	66	C2687MS-FS(0)	3/23/2024
13C8-PFOSA	65	C2687MS-FS(0)	3/23/2024
d3-MeFOSA	48	C2687MS-FS(0)	3/23/2024
d5-EtFOSA	40	C2687MS-FS(0)	3/23/2024
d3-MeFOSAA	67	C2687MS-FS(0)	3/23/2024
d5-EtFOSAA	62	C2687MS-FS(0)	3/23/2024
d7-MeFOSE	42	C2687MS-FS(0)	3/23/2024
d9-EtFOSE	32	C2687MS-FS(0)	3/23/2024
13C3-HFPO-DA	73	C2687MS-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	99	C2687MS-FS(0)	3/23/2024
13C2-PFHxA	98	C2687MS-FS(0)	3/23/2024
13C4-PFOA	96	C2687MS-FS(0)	3/23/2024
13C5-PFNA	93	C2687MS-FS(0)	3/23/2024
13C2-PFDA	96	C2687MS-FS(0)	3/23/2024
18O2-PFHxS	108	C2687MS-FS(0)	3/23/2024
13C4-PFOS	98	C2687MS-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

			MS/MSD Background Sample
Client ID		WGNA-SW-36-20240319	WGNA-SW-36-20240319
Battelle ID		C2687MSD-FS	C2687-FS
Sample Type		MSD	SA
Collection Date		03/19/2024	03/19/2024
Extraction Date		03/21/2024	03/21/2024
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture		NA	NA
Matrix		SW	SW
Sample Size		0.526	0.532
Size Unit-Basis		L	L

Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Control Limits Upper	RPD	Qual	RPD Limit
PFBA	375-22-4	93.7	7.23	C2687MSD-FS(0)	1.000	3/23/2024	76.1	114		70	140	5.4		≤ 30
PFPeA	2706-90-3	57.6	14.6	C2687MSD-FS(0)	1.000	3/23/2024	38.0	113		65	135	0.0		≤ 30
PFHxA	307-24-4	34.9	14.2	C2687MSD-FS(0)	1.000	3/23/2024	19.0	109		70	145	0.9		≤ 30
PFHpA	375-85-9	29.5	5.75	C2687MSD-FS(0)	1.000	3/23/2024	19.0	125		70	150	10.1		≤ 30
PFOA	335-67-1	42.5	18.3	C2687MSD-FS(0)	1.000	3/23/2024	19.0	127		70	150	5.4		≤ 30
PFNA	375-95-1	25.3	1.98	C2687MSD-FS(0)	1.000	3/23/2024	19.0	123		70	150	0.8		≤ 30
PFDA	335-76-2	22.9	0.419 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	121		70	140	4.2		≤ 30
PFUnA	2058-94-8	23.9	0.382 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	126		70	145	10.9		≤ 30
PFDoA	307-55-1	22.2	0.566 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	117		70	140	8.9		≤ 30
PFTrDA	72629-94-8	17.8	0.682 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	94		65	140	6.6		≤ 30
PFTeDA	376-06-7	21.3	0.806 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	112		60	140	20.1		≤ 30
PFBS	375-73-5	29.3	9.90	C2687MSD-FS(0)	1.000	3/23/2024	16.9	115		60	145	8.1		≤ 30
PFPeS	2706-91-4	24.4	4.57	C2687MSD-FS(0)	1.000	3/23/2024	17.9	111		65	140	5.6		≤ 30
PFHxS	355-46-4	56.4	35.3	C2687MSD-FS(0)	1.000	3/23/2024	17.4	121		65	145	29.4		≤ 30
PFHpS	375-92-8	21.4	1.44 J	C2687MSD-FS(0)	1.000	3/23/2024	18.1	110		70	150	5.6		≤ 30
PFOS	1763-23-1	74.6	56.3	C2687MSD-FS(0)	1.000	3/23/2024	17.6	104		55	150	1.0		≤ 30
PFNS	68259-12-1	18.3	0.468 U	C2687MSD-FS(0)	1.000	3/23/2024	18.3	100		65	145	6.8		≤ 30
PFDS	335-77-3	17.3	0.305 U	C2687MSD-FS(0)	1.000	3/23/2024	18.4	94		60	145	7.7		≤ 30
PFDoS	79780-39-5	13.9	0.338 U	C2687MSD-FS(0)	1.000	3/23/2024	18.4	76		50	145	11.1		≤ 30
4:2FTS	757124-72-4	88.5	2.48 U	C2687MSD-FS(0)	1.000	3/23/2024	71.3	124		70	145	8.4		≤ 30
6:2FTS	27619-97-2	101	5.13 J	C2687MSD-FS(0)	1.000	3/23/2024	72.2	133		65	155	9.4		≤ 30
8:2FTS	39108-34-4	96.0	1.72 U	C2687MSD-FS(0)	1.000	3/23/2024	73.0	132		60	150	16.4		≤ 30
PFOSA	754-91-6	22.4	0.353 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	118		70	145	0.0		≤ 30
NMeFOSA	31506-32-8	22.9	0.374 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	121		60	150	4.2		≤ 30
NEtFOSA	4151-50-2	20.1	0.188 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	106		65	145	6.4		≤ 30
NMeFOSAA	2355-31-9	21.2	1.23 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	112		50	140	3.5		≤ 30
NEtFOSAA	2991-50-6	20.6	1.07 U	C2687MSD-FS(0)	1.000	3/23/2024	19.0	108		70	145	1.8		≤ 30
NMeFOSE	24448-09-7	215	3.10 U	C2687MSD-FS(0)	1.000	3/23/2024	190	113		70	145	5.5		≤ 30
NEtFOSE	1691-99-2	237	2.73 U	C2687MSD-FS(0)	1.000	3/23/2024	190	125		70	135	1.6		≤ 30
HFPO-DA	13252-13-6	85.7	1.41 U	C2687MSD-FS(0)	1.000	3/23/2024	76.1	113		70	140	8.3		≤ 30
Adona	919005-14-4	83.1	1.30 U	C2687MSD-FS(0)	1.000	3/23/2024	71.9	116		65	145	9.0		≤ 30
PFMPA	377-73-1	41.7	1.18 U	C2687MSD-FS(0)	1.000	3/23/2024	38.0	110		55	140	6.6		≤ 30
PFMBA	863090-89-5	41.1	1.13 U	C2687MSD-FS(0)	1.000	3/23/2024	38.0	108		60	150	2.8		≤ 30
NFDHA	151772-58-6	46.3	1.43 U	C2687MSD-FS(0)	1.000	3/23/2024	38.0	122		50	150	0.8		≤ 30
9Cl-PF3ONS	756426-58-1	77.0	1.31 U	C2687MSD-FS(0)	1.000	3/23/2024	71.1	108		70	155	1.8		≤ 30
11Cl-PF3OUdS	763051-92-9	58.8	2.05 U	C2687MSD-FS(0)	1.000	3/23/2024	71.9	82		55	160	7.6		≤ 30
PFEESA	113507-82-7	42.1	0.398 U	C2687MSD-FS(0)	1.000	3/23/2024	33.8	125		70	140	8.3		≤ 30
3:3 FTCA	356-02-5	111	3.14 U	C2687MSD-FS(0)	1.000	3/23/2024	95.1	117		65	130	2.6		≤ 30
5:3 FTCA	914637-49-3	568	8.38 U	C2687MSD-FS(0)	1.000	3/23/2024	475	120		70	135	12.4		≤ 30
7:3 FTCA	812-70-4	610	9.81 U	C2687MSD-FS(0)	1.000	3/23/2024	475	128		50	145	4.8		≤ 30

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

		MS/MSD Background Sample
Client ID	WGNA-SW-36-20240319	WGNA-SW-36-20240319
Battelle ID	C2687MSD-FS	C2687-FS
Sample Type	MSD	SA
Collection Date	03/19/2024	03/19/2024
Extraction Date	03/21/2024	03/21/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	75	C2687MSD-FS(0)	3/23/2024
13C5-PFPeA	84	C2687MSD-FS(0)	3/23/2024
13C5-PFHxA	70	C2687MSD-FS(0)	3/23/2024
13C4-PFHpA	74	C2687MSD-FS(0)	3/23/2024
13C8-PFOA	79	C2687MSD-FS(0)	3/23/2024
13C9-PFNA	89	C2687MSD-FS(0)	3/23/2024
13C6-PFDA	69	C2687MSD-FS(0)	3/23/2024
13C7-PFUnA	62	C2687MSD-FS(0)	3/23/2024
13C2-PFDoA	52	C2687MSD-FS(0)	3/23/2024
13C2-PFTeDA	31	C2687MSD-FS(0)	3/23/2024
13C3-PFBS	72	C2687MSD-FS(0)	3/23/2024
13C3-PFHxS	71	C2687MSD-FS(0)	3/23/2024
13C8-PFOS	83	C2687MSD-FS(0)	3/23/2024
13C2-4:2FTS	79	C2687MSD-FS(0)	3/23/2024
13C2-6:2FTS	75	C2687MSD-FS(0)	3/23/2024
13C2-8:2FTS	67	C2687MSD-FS(0)	3/23/2024
13C8-PFOSA	78	C2687MSD-FS(0)	3/23/2024
d3-MeFOSA	57	C2687MSD-FS(0)	3/23/2024
d5-EtFOSA	46	C2687MSD-FS(0)	3/23/2024
d3-MeFOSAA	75	C2687MSD-FS(0)	3/23/2024
d5-EtFOSAA	76	C2687MSD-FS(0)	3/23/2024
d7-MeFOSE	51	C2687MSD-FS(0)	3/23/2024
d9-EtFOSE	38	C2687MSD-FS(0)	3/23/2024
13C3-HFPO-DA	81	C2687MSD-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	93	C2687MSD-FS(0)	3/23/2024
13C2-PFHxA	92	C2687MSD-FS(0)	3/23/2024
13C4-PFOA	90	C2687MSD-FS(0)	3/23/2024
13C5-PFNA	83	C2687MSD-FS(0)	3/23/2024
13C2-PFDA	95	C2687MSD-FS(0)	3/23/2024
18O2-PFHxS	99	C2687MSD-FS(0)	3/23/2024
13C4-PFOS	90	C2687MSD-FS(0)	3/23/2024

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Glossary of Data Qualifiers

Flag:	Application:
B	Analyte detected in the Procedural Blank above 1/2 the Limit of Quantitation (LOQ)
B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
J	Analyte detected below the Limit of Quantitation (LOQ)
MI	Significant Matrix Interference - value could not be determined.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Detection Limit (DL) value, Limit of Detection (LOD) reported
I	Ion ratio outside of criteria (50% difference from calibration expected ratio)

QA/QC Summary
Batch 24-0207

Project:	CTO-WE04: WR125 NAS JRB Willow Grove
Client Project Manager:	Rocco Mercuri
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	SW, QC
Data Set:	DP-24-0234
Analytical SOP:	5-381
Method Reference:	*Draft* EPA 1633

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
3/19/2024	3/20/2024	1.4, 0.9
Corrective Actions	None.	
Sample Storage	Samples stored frozen until extraction.	
Related samples	Sample C2686-FS (WGNA-SW-36A-20240319) re-extracted in 24-0220 to verify extracted internal standard recoveries.	

	METHOD SUMMARIES
Sample Preparation	Water samples were fortified with surrogates in the original sample container from the field. The water was extracted using a Weak-anion exchange (WAX) / carbon (GCB) solid phase extraction (SPE) cartridge. Target analytes are eluted from the WAX/GCB SPE using 1% NH_3OH in methanol. Extracts were acidified with acetic acid, fortified with internal standards and transferred to LC-MS/MS for analysis.
Prep comments	pH of all samples prior to SPE extraction was verified between 6.5 ± 0.5. Samples C2686-FS (WGNA-SW-36A-20240319), C2687-FS (WGNA-SW-36-20240319), C2687MS-FS (WGNA-SW-36-20240319), C2687MSD-FS (WGNA-SW-36-20240319), C2688-FS (WGNA-SW-34A-20240319), C2689-FS (WGNA-SW-42-20240319), C2690-FS (WGNA-SW-41-20240319), C2691-FS (WGNA-SW-39A-20240319), C2692-FS (WGNA-SW-33-20240319), C2693-FS (WGNA-SW-30-20240319), C2694-FS (WGNA-SW-20-20240319), C2695-FS (WGNA-SW-19-20240319), and C2696-FS (WGNA-SW-DUP-02-20240319) appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations to three (3) significant figures.
Analysis Comments	Samples analyzed on Sciex 6500+ (AG) LC-MS/MS.

QA/QC Summary
Batch 24-0207

	The calibration curve contains branched and linear isomers for PFOA, PFNA, PFHxS, PFOS, PFOSA, MeFOSAA, EtFOSAA, MeFOSA, EtFOSA, MeFOSE, and EtFOSE. Individual samples are reviewed for linear and branched isomers. The Branched Checklist Report included in the Miscellaneous Documentation section of the data package indicates if the analyte reported contains linear, branched, or a mix of isomers. Due to potential matrix interferences, the following quantifications updates were made for this batch: • 13C2-4:2FTS is quantified using 13C3-PFBA. • PFTrDA and PFDoS are quantified using 13C2-PFDoA. The following analytes are "I" qualified as the ion ratio is outside of the 50% criteria. • NMeFOSAA in DQ754LCS-FS (Laboratory Control Sample) Sample was reanalyzed to verify the exceedance; quant report is included in the unused data section. Secondary exceedances for calibrations, ICC, and CCV samples are not documented as the secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

Holding Times	Extraction Date(s)	Analysis Date(s)
	3/21/2024	3/22 – 23/2024

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
≤ ½ the LOQ Samples >10x PB	No exceedances noted.
	No comments.

Ongoing Precision and Recovery (OPR or LLOPR)	An OPR and LLOPR were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4 for recovery and <30% RPD	No exceedances noted.
	No comments.

QA/QC Summary
Batch 24-0207

<table>
<tr><td>Extracted Internal Standard Analytes (EIS)</td><td>Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.</td></tr>
<tr><td rowspan="2">Limits published in draft EPA 1633 Version 4</td><td>Twenty-three (23) exceedances noted.</td></tr>
<tr><td>One sample had recovery exceedances for extracted internal standards. The table below details the recoveries (%) for the exceedances.
<table>
<tr><th></th><th>C2686-FS (WGNA-SW-36A-20240319)</th></tr>
<tr><td>13C5-PFPeA</td><td>23</td></tr>
<tr><td>13C5-PFHxA</td><td>20</td></tr>
<tr><td>13C4-PFHpA</td><td>23</td></tr>
<tr><td>13C8-PFOA</td><td>23</td></tr>
<tr><td>13C9-PFNA</td><td>21</td></tr>
<tr><td>13C6-PFDA</td><td>23</td></tr>
<tr><td>13C7-PFUnA</td><td>20</td></tr>
<tr><td>13C2-PFDoA</td><td>17</td></tr>
<tr><td>13C2-PFTeDA</td><td>16</td></tr>
<tr><td>13C3-PFBS</td><td>23</td></tr>
<tr><td>13C3-PFHxS</td><td>26</td></tr>
<tr><td>13C8-PFOS</td><td>24</td></tr>
<tr><td>13C2-4:2FTS</td><td>28</td></tr>
<tr><td>13C2-6:2FTS</td><td>28</td></tr>
<tr><td>13C2-8:2FTS</td><td>23</td></tr>
<tr><td>13C8-PFOSA</td><td>18</td></tr>
<tr><td>d3-MeFOSA</td><td>13</td></tr>
<tr><td>d5-EtFOSA</td><td>12</td></tr>
<tr><td>d3-MeFOSAA</td><td>20</td></tr>
<tr><td>d5-EtFOSAA</td><td>22</td></tr>
<tr><td>d7-MeFOSE</td><td>15</td></tr>
<tr><td>d9-EtFOSE</td><td>13</td></tr>
<tr><td>13C3-HFPO-DA</td><td>22</td></tr>
</table>
The sample extracts were re-analyzed for confirmation. The quant report for the confirmation analysis is included in the unused data section of the full data package.</td></tr>
</table>

QA/QC Summary
Batch 24-0207

Non-Extracted Internal Standard (NIS) Analytes	Labelled analog compounds were added prior to analysis.
> 30% recovery based on the average area of the calibration curve.	No exceedances noted.
	No comments.

Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
Relative Standard Deviation (RSD) of RR or RF $\leq$ 20%	No exceedances noted.
	No comments.

Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.

Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Laboratory Duplicate Precision	NA	None
Matrix Spike / Matrix Spike Duplicate Recovery	0	None
Matrix Spike / Matrix Spike Duplicate Precision	0	None
Extracted Internal Standard Analytes (EIS)	23	There are twenty-three confirmed extracted internal standard exceedances. KB 3/25/2024
Non-Extracted Internal Standards (NIS)	0	None

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It can be done

BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title:	NAS JRB Willow Grove	**Data Set Number:**	DP-24-0234
Project Number:	G00078.XX.XX.0125.000001	**Prep Batch Number:**	24-0207
Entered By:	Kevin Bailey	**Entered On:**	03/25/2024
Test Code (Matrix Type):	EPA_1633(L)		

Samples that were manually integrated are noted on the Manual Integration reports with the comment “Manual” under the Integration Type columns. Changes were made due to incorrect auto integration of a peak by the data system. The analyst’s initials on this statement indicate that all integrations were reviewed and approved by the analyst performing the analysis.
KB 3/25/2024

13C2-4:2FTS is quantified using 13C3-PFBA.
PFTrDA and PFDoS are quantified using 13C2-PFDoA.

Task Leader Approval:

SupervisorApproval:

PM Approval:



Digitally signed by Robert Lizotte, Jr.
Date: 2024.03.26 09:14:59 -04'00'

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFBA **(**212.8 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFBA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C4-PFBA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFBA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFBA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFBA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFBA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFBA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFBA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFBA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFBA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C4-PFBA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFBA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFBA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C4-PFBA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C4-PFBA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFBA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C4-PFBA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFBA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFBA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFBA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFBA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFBA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C4-PFBA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFBA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFBA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C4-PFBA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C4-PFBA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C4-PFBA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFBA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFBA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C4-PFBA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFBA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFPeA (263.0 / 219.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
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MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFPeA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C5-PFPeA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFPeA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFPeA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C5-PFPeA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C5-PFPeA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C5-PFPeA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFPeA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C5-PFPeA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFPeA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C5-PFPeA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C5-PFPeA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C5-PFPeA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C5-PFPeA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C5-PFPeA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C5-PFPeA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C5-PFPeA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFPeA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHxA_1 **(**313.0 / 269.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHxA_2 **(**313.0 / 118.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
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MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
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MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
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C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
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C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C5-PFHxA	Valley
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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Printed: 25/03/2024 3:08:57 PM

Analyte: PFHpA_1 **(**363.1 / 319.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFHpA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFHpA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFHpA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFHpA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C4-PFHpA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFHpA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFHpA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFHpA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C4-PFHpA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C4-PFHpA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFHpA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C4-PFHpA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFHpA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFHpA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C4-PFHpA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C4-PFHpA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C4-PFHpA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFHpA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFHpA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFHpA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFHpA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C4-PFHpA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFHpA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFHpA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFHpA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFHpA	Valley

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Manual Integration Report

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Analyte: PFHpA_2 **(**363.1 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFHpA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C4-PFHpA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFHpA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C4-PFHpA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFHpA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C4-PFHpA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFHpA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFHpA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C4-PFHpA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFHpA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFHpA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C4-PFHpA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFHpA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFHpA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFHpA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFHpA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C4-PFHpA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFHpA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFHpA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFHpA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFHpA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFHpA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFHpA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFHpA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFHpA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFHpA	Valley

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Manual Integration Report

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Analyte: PFOA_1 **(**413.0 / 369.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C8-PFOA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C8-PFOA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C8-PFOA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C8-PFOA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C8-PFOA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C8-PFOA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C8-PFOA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C8-PFOA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C8-PFOA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOA	Valley

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Manual Integration Report

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Analyte: PFOA_2 **(**413.0 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C8-PFOA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C8-PFOA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C8-PFOA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C8-PFOA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C8-PFOA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C8-PFOA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C8-PFOA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C8-PFOA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C8-PFOA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOA	Valley

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Manual Integration Report

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Analyte: PFNA_1 **(**463.0 / 419.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C9-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C9-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C9-PFNA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C9-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C9-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C9-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C9-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C9-PFNA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C9-PFNA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C9-PFNA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C9-PFNA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C9-PFNA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C9-PFNA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C9-PFNA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C9-PFNA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C9-PFNA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C9-PFNA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C9-PFNA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C9-PFNA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C9-PFNA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C9-PFNA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C9-PFNA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C9-PFNA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C9-PFNA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C9-PFNA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C9-PFNA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C9-PFNA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C9-PFNA	Valley

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Manual Integration Report

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Printed: 25/03/2024 3:08:57 PM

Analyte: PFNA_2 **(**463.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Manual	13C9-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C9-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C9-PFNA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C9-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C9-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C9-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C9-PFNA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C9-PFNA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C9-PFNA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C9-PFNA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C9-PFNA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C9-PFNA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C9-PFNA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C9-PFNA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C9-PFNA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C9-PFNA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C9-PFNA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C9-PFNA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C9-PFNA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C9-PFNA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C9-PFNA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C9-PFNA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C9-PFNA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C9-PFNA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C9-PFNA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C9-PFNA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C9-PFNA	Valley

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Analyte: PFDA_1 **(**512.9 / 469.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C6-PFDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C6-PFDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C6-PFDA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C6-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C6-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C6-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C6-PFDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C6-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C6-PFDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C6-PFDA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C6-PFDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C6-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C6-PFDA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C6-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C6-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C6-PFDA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C6-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C6-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C6-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C6-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C6-PFDA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C6-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C6-PFDA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C6-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C6-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C6-PFDA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C6-PFDA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C6-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C6-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C6-PFDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C6-PFDA	Valley

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Analyte: PFDA_2 **(**512.9 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C6-PFDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C6-PFDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C6-PFDA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C6-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C6-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C6-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C6-PFDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C6-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C6-PFDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C6-PFDA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C6-PFDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C6-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C6-PFDA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C6-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C6-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C6-PFDA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C6-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C6-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C6-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C6-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C6-PFDA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C6-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C6-PFDA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C6-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C6-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C6-PFDA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C6-PFDA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C6-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C6-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C6-PFDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C6-PFDA	Valley

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Manual Integration Report

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Analyte: PFUnA_1 **(**563.1 / 519.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C7-PFUnA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C7-PFUnA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C7-PFUnA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C7-PFUnA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C7-PFUnA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C7-PFUnA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C7-PFUnA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C7-PFUnA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C7-PFUnA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C7-PFUnA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C7-PFUnA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C7-PFUnA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C7-PFUnA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C7-PFUnA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C7-PFUnA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C7-PFUnA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C7-PFUnA	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C7-PFUnA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C7-PFUnA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C7-PFUnA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C7-PFUnA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C7-PFUnA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C7-PFUnA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C7-PFUnA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C7-PFUnA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C7-PFUnA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C7-PFUnA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C7-PFUnA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C7-PFUnA	Baseline

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Manual Integration Report

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Analyte: PFUnA_2 **(**563.1 / 269.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C7-PFUnA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C7-PFUnA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C7-PFUnA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C7-PFUnA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C7-PFUnA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C7-PFUnA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C7-PFUnA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C7-PFUnA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C7-PFUnA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C7-PFUnA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C7-PFUnA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C7-PFUnA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C7-PFUnA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C7-PFUnA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C7-PFUnA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C7-PFUnA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C7-PFUnA	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C7-PFUnA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C7-PFUnA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C7-PFUnA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C7-PFUnA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C7-PFUnA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C7-PFUnA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C7-PFUnA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C7-PFUnA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C7-PFUnA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C7-PFUnA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C7-PFUnA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C7-PFUnA	Baseline

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Manual Integration Report

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Analyte: PFDoA_1 **(**613.1 / 569.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Analyte: PFDoA_2 **(**613.1 / 319.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTrDA_1 **(**663.0 / 619.0**)**

Data File	AG_03222024_1633.wiff	**Result Table**	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTrDA_2 **(**663.0 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTeDA_1 **(**713.0 / 669.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFTeDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFTeDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFTeDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFTeDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFTeDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFTeDA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFTeDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFTeDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFTeDA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFTeDA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFTeDA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFTeDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFTeDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFTeDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-PFTeDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C2-PFTeDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFTeDA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFTeDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFTeDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFTeDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFTeDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFTeDA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFTeDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFTeDA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFTeDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFTeDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

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Analyte: PFTeDA_2 **(**713.0 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFTeDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFTeDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFTeDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFTeDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFTeDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFTeDA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFTeDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFTeDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFTeDA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFTeDA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFTeDA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFTeDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFTeDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFTeDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFTeDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFTeDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFTeDA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFTeDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFTeDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFTeDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFTeDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFTeDA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFTeDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFTeDA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFTeDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFTeDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFTeDA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFBS_1 **(**298.7 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFBS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFBS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFBS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFBS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFBS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFBS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFBS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-PFBS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-PFBS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFBS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C3-PFBS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-PFBS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-PFBS	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-PFBS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFBS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C3-PFBS	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C3-PFBS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-PFBS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C3-PFBS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C3-PFBS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C3-PFBS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C3-PFBS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFBS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFBS_2 **(**298.9 / 98.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFBS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFBS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFBS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFBS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFBS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFBS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFBS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-PFBS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-PFBS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFBS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C3-PFBS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-PFBS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-PFBS	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-PFBS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFBS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C3-PFBS	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C3-PFBS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-PFBS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C3-PFBS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C3-PFBS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C3-PFBS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C3-PFBS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFBS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFPeS_1 **(**349.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFHxS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-PFHxS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFHxS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C3-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-PFHxS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFHxS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C3-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C3-PFHxS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C3-PFHxS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C3-PFHxS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C3-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C3-PFHxS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFPeS_2 **(**349.1 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFHxS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-PFHxS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFHxS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C3-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-PFHxS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFHxS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C3-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C3-PFHxS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C3-PFHxS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C3-PFHxS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C3-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C3-PFHxS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHxS_1 **(**398.7 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFHxS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C3-PFHxS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFHxS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C3-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C3-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C3-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C3-PFHxS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFHxS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C3-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C3-PFHxS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C3-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C3-PFHxS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C3-PFHxS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C3-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C3-PFHxS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHxS_2 **(**398.7 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-PFHxS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C3-PFHxS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-PFHxS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C3-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C3-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C3-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C3-PFHxS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-PFHxS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C3-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C3-PFHxS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C3-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C3-PFHxS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C3-PFHxS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C3-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C3-PFHxS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHpS_1 **(**449.0 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFHpS_2 **(**449.0 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFOS_1 **(**498.9 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFOS_2 **(**498.9 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Manual	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFNS_1 **(**548.8 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFNS_2 **(**548.8 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFDS_1 **(**599.0 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFDS_2 **(**599.0 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C8-PFOS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C8-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C8-PFOS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOS	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFDoS_1 **(**699.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFDoS_2 **(**699.1 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-PFDoA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFDoA	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDoA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-PFDoA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-PFDoA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-PFDoA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-PFDoA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDoA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-PFDoA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-PFDoA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-PFDoA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-PFDoA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-PFDoA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-PFDoA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-PFDoA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-PFDoA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-PFDoA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 4:2FTS_1 **(**327.1 / 307.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-4:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-4:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-4:2FTS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-4:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-4:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-4:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-4:2FTS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-4:2FTS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-4:2FTS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-4:2FTS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-4:2FTS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-4:2FTS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-4:2FTS	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-4:2FTS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-4:2FTS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-4:2FTS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-4:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-4:2FTS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-4:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-4:2FTS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-4:2FTS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-4:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-4:2FTS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-4:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-4:2FTS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-4:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 4:2FTS_2 **(**327.1 / 80.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-4:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-4:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-4:2FTS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-4:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-4:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-4:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-4:2FTS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-4:2FTS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-4:2FTS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-4:2FTS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-4:2FTS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-4:2FTS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C2-4:2FTS	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-4:2FTS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-4:2FTS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-4:2FTS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-4:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-4:2FTS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-4:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-4:2FTS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-4:2FTS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-4:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-4:2FTS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-4:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-4:2FTS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-4:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 6:2FTS_1 **(**427.1 / 407.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-6:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-6:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-6:2FTS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-6:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-6:2FTS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-6:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-6:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-6:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-6:2FTS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-6:2FTS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-6:2FTS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-6:2FTS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C2-6:2FTS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-6:2FTS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-6:2FTS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-6:2FTS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C2-6:2FTS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-6:2FTS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-6:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-6:2FTS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-6:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C2-6:2FTS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C2-6:2FTS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C2-6:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C2-6:2FTS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-6:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-6:2FTS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-6:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 6:2FTS_2 **(**427.1 / 80.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-6:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-6:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-6:2FTS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-6:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-6:2FTS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-6:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-6:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-6:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-6:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-6:2FTS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-6:2FTS	Baseline
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-6:2FTS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-6:2FTS	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C2-6:2FTS	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C2-6:2FTS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-6:2FTS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-6:2FTS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C2-6:2FTS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-6:2FTS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-6:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-6:2FTS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C2-6:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C2-6:2FTS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-6:2FTS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-6:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-6:2FTS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-6:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-6:2FTS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-6:2FTS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 8:2FTS_1 **(**527.1 / 507.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-8:2FTS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-8:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-8:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-8:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-8:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-8:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-8:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-8:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-8:2FTS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-8:2FTS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-8:2FTS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-8:2FTS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-8:2FTS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-8:2FTS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-8:2FTS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-8:2FTS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-8:2FTS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-8:2FTS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-8:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-8:2FTS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-8:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-8:2FTS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-8:2FTS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-8:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-8:2FTS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-8:2FTS	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

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Analyte: 8:2FTS_2 **(**527.1 / 80.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-8:2FTS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-8:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-8:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-8:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-8:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-8:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-8:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-8:2FTS	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C2-8:2FTS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-8:2FTS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-8:2FTS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C2-8:2FTS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C2-8:2FTS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C2-8:2FTS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-8:2FTS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-8:2FTS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C2-8:2FTS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C2-8:2FTS	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C2-8:2FTS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C2-8:2FTS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C2-8:2FTS	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C2-8:2FTS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C2-8:2FTS	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C2-8:2FTS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C2-8:2FTS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-8:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFOSA_1 **(**498.1 / 77.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOSA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOSA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOSA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOSA	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFOSA_2 (498.1 / 478.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOSA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C8-PFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C8-PFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C8-PFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C8-PFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C8-PFOSA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C8-PFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C8-PFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C8-PFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C8-PFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C8-PFOSA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C8-PFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C8-PFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C8-PFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C8-PFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C8-PFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C8-PFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NMeFOSA_1 (511.9 / 219.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	D3-MeFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	D3-MeFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	D3-MeFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Manual	D3-MeFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D3-MeFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D3-MeFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D3-MeFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D3-MeFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D3-MeFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D3-MeFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D3-MeFOSA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D3-MeFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D3-MeFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D3-MeFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D3-MeFOSA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D3-MeFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D3-MeFOSA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D3-MeFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D3-MeFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D3-MeFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D3-MeFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D3-MeFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D3-MeFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D3-MeFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NMeFOSA_2 (511.9 / 169.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D3-MeFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D3-MeFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D3-MeFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D3-MeFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D3-MeFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D3-MeFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D3-MeFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D3-MeFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D3-MeFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D3-MeFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D3-MeFOSA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D3-MeFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D3-MeFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D3-MeFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D3-MeFOSA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D3-MeFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D3-MeFOSA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D3-MeFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D3-MeFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D3-MeFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D3-MeFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D3-MeFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D3-MeFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D3-MeFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NEtFOSA_1 **(**526.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D5-EtFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Manual	D5-EtFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	D5-EtFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D5-EtFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D5-EtFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D5-EtFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D5-EtFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D5-EtFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D5-EtFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D5-EtFOSA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D5-EtFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D5-EtFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D5-EtFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D5-EtFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D5-EtFOSA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D5-EtFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D5-EtFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D5-EtFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D5-EtFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D5-EtFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D5-EtFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D5-EtFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NEtFOSA_2 **(**526.0 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Manual	D5-EtFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D5-EtFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D5-EtFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D5-EtFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D5-EtFOSA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D5-EtFOSA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D5-EtFOSA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D5-EtFOSA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D5-EtFOSA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D5-EtFOSA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D5-EtFOSA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D5-EtFOSA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D5-EtFOSA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D5-EtFOSA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D5-EtFOSA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D5-EtFOSA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D5-EtFOSA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D5-EtFOSA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D5-EtFOSA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D5-EtFOSA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D5-EtFOSA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D5-EtFOSA	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NMeFOSAA_1 (570.1 / 419.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d3-MeFOSAA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d3-MeFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d3-MeFOSAA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d3-MeFOSAA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d3-MeFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d3-MeFOSAA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	d3-MeFOSAA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	d3-MeFOSAA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	d3-MeFOSAA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	d3-MeFOSAA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	d3-MeFOSAA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	d3-MeFOSAA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	d3-MeFOSAA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	d3-MeFOSAA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	d3-MeFOSAA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	d3-MeFOSAA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	d3-MeFOSAA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	d3-MeFOSAA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	d3-MeFOSAA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	d3-MeFOSAA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	d3-MeFOSAA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	d3-MeFOSAA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d3-MeFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d3-MeFOSAA	Valley

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Manual Integration Report

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Printed: 25/03/2024 3:08:57 PM

Analyte: NMeFOSAA_2 (570.1 / 483.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d3-MeFOSAA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d3-MeFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d3-MeFOSAA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d3-MeFOSAA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d3-MeFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d3-MeFOSAA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	d3-MeFOSAA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	d3-MeFOSAA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	d3-MeFOSAA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	d3-MeFOSAA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	d3-MeFOSAA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	d3-MeFOSAA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	d3-MeFOSAA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	d3-MeFOSAA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	d3-MeFOSAA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	d3-MeFOSAA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	d3-MeFOSAA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	d3-MeFOSAA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	d3-MeFOSAA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	d3-MeFOSAA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	d3-MeFOSAA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	d3-MeFOSAA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d3-MeFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d3-MeFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NEtFOSAA_1 (584.2 / 419.1)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d5-EtFOSAA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d5-EtFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d5-EtFOSAA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d5-EtFOSAA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d5-EtFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d5-EtFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d5-EtFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d5-EtFOSAA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	d5-EtFOSAA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	d5-EtFOSAA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	d5-EtFOSAA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	d5-EtFOSAA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	d5-EtFOSAA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	d5-EtFOSAA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	d5-EtFOSAA	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	d5-EtFOSAA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	d5-EtFOSAA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	d5-EtFOSAA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	d5-EtFOSAA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	d5-EtFOSAA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	d5-EtFOSAA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	d5-EtFOSAA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	d5-EtFOSAA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	d5-EtFOSAA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	d5-EtFOSAA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d5-EtFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d5-EtFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NEtFOSAA_2 (584.2 / 526.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d5-EtFOSAA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d5-EtFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d5-EtFOSAA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d5-EtFOSAA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d5-EtFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d5-EtFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d5-EtFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d5-EtFOSAA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	d5-EtFOSAA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	d5-EtFOSAA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	d5-EtFOSAA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	d5-EtFOSAA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	d5-EtFOSAA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	d5-EtFOSAA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	d5-EtFOSAA	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	d5-EtFOSAA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	d5-EtFOSAA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	d5-EtFOSAA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	d5-EtFOSAA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	d5-EtFOSAA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	d5-EtFOSAA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	d5-EtFOSAA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	d5-EtFOSAA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	d5-EtFOSAA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	d5-EtFOSAA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d5-EtFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d5-EtFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NMeFOSE **(**616.1 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D7-MeFOSE	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D7-MeFOSE	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D7-MeFOSE	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D7-MeFOSE	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D7-MeFOSE	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D7-MeFOSE	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D7-MeFOSE	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D7-MeFOSE	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D7-MeFOSE	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D7-MeFOSE	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D7-MeFOSE	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D7-MeFOSE	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D7-MeFOSE	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D7-MeFOSE	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D7-MeFOSE	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D7-MeFOSE	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D7-MeFOSE	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D7-MeFOSE	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D7-MeFOSE	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D7-MeFOSE	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D7-MeFOSE	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D7-MeFOSE	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D7-MeFOSE	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D7-MeFOSE	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D7-MeFOSE	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D7-MeFOSE	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D7-MeFOSE	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D7-MeFOSE	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D7-MeFOSE	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D7-MeFOSE	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D7-MeFOSE	Valley

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D7-MeFOSE	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NEtFOSE **(**630.0 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D9-EtFOSE	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D9-EtFOSE	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D9-EtFOSE	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D9-EtFOSE	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D9-EtFOSE	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D9-EtFOSE	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D9-EtFOSE	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D9-EtFOSE	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D9-EtFOSE	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D9-EtFOSE	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D9-EtFOSE	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D9-EtFOSE	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	D9-EtFOSE	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	D9-EtFOSE	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	D9-EtFOSE	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	D9-EtFOSE	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	D9-EtFOSE	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	D9-EtFOSE	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	D9-EtFOSE	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	D9-EtFOSE	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	D9-EtFOSE	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	D9-EtFOSE	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	D9-EtFOSE	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	D9-EtFOSE	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	D9-EtFOSE	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	D9-EtFOSE	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	D9-EtFOSE	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	D9-EtFOSE	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	D9-EtFOSE	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	D9-EtFOSE	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D9-EtFOSE	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D9-EtFOSE	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: HFPO-DA_1 **(**284.9 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: HFPO-DA_2 **(**284.9 / 184.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: ADONA_1 **(**376.9 / 250.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: ADONA_2 **(**376.9 / 84.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
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Analyte: 9Cl-PF3ONS_1 **(**530.8 / 351.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 9Cl-PF3ONS_2 **(**532.8 / 353.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 11Cl-PF3OUdS_1 **(**630.9 / 450.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: 11Cl-PF3OUdS_2 **(**632.9 / 452.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C3-HFPO-DA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C3-HFPO-DA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-HFPO-DA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C3-HFPO-DA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C3-HFPO-DA	Baseline
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-HFPO-DA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C3-HFPO-DA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-HFPO-DA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C3-HFPO-DA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C3-HFPO-DA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C3-HFPO-DA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C3-HFPO-DA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C3-HFPO-DA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C3-HFPO-DA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C3-HFPO-DA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C3-HFPO-DA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: 3:3 FTCA_1 **(**241.0 / 177.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFPeA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFPeA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFPeA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFPeA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFPeA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFPeA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFPeA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFPeA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFPeA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFPeA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFPeA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFPeA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFPeA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFPeA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFPeA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFPeA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 3:3 FTCA_2 **(**241.0 / 117.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFPeA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C5-PFPeA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C5-PFPeA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFPeA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFPeA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFPeA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C5-PFPeA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFPeA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFPeA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFPeA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFPeA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFPeA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFPeA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFPeA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFPeA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFPeA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 5:3 FTCA_1 **(**341.0 / 237.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 5:3 FTCA_2 **(**341.0 / 217.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 7:3 FTCA_1 **(**441.0 / 316.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: 7:3 FTCA_2 **(**441.0 / 336.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: NFDHA_1 **(**295.0 / 201.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

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Analyte: NFDHA_2 **(**295.0 / 84.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
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Analyte: PFEESA_1 **(**314.8 / 134.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFEESA_2 **(**314.8 / 82.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C5-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C5-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFHxA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFHxA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFHxA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFHxA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFHxA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFHxA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFMPA (229.0 / 84.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFPeA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFPeA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFPeA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFPeA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFPeA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFPeA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFPeA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C5-PFPeA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFPeA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFPeA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFPeA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFPeA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFPeA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFPeA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFPeA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFPeA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: PFMBA (279.0 / 85.1)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	13C5-PFPeA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFPeA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFPeA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	13C5-PFPeA	Baseline
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	13C5-PFPeA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	13C5-PFPeA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFPeA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFPeA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	13C5-PFPeA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	13C5-PFPeA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	13C5-PFPeA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	13C5-PFPeA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	13C5-PFPeA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	13C5-PFPeA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	13C5-PFPeA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	13C5-PFPeA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	13C5-PFPeA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:08:57 PM

Analyte: TDCA **(**499.0 / 107.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	N/A	N/A	N/A
MC60	L2	3/22/2024 8:34:31 PM	N/A	N/A	N/A
MC61	L3	3/22/2024 8:57:20 PM	N/A	N/A	N/A
MC62	L4	3/22/2024 9:20:11 PM	N/A	N/A	N/A
MC63	L5	3/22/2024 9:42:58 PM	N/A	N/A	N/A
MC64	L6	3/22/2024 10:05:45 PM	N/A	N/A	N/A
MC65	L7	3/22/2024 10:28:33 PM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	N/A	N/A
MC43 ICC	ICC	3/22/2024 11:14:10 PM	N/A	N/A	N/A
MC59 ISC	ISC	3/22/2024 11:36:56 PM	N/A	N/A	N/A
MC62 CV	CV	3/22/2024 11:59:43 PM	N/A	N/A	N/A
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	Valley	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	N/A	N/A
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	N/A	N/A	N/A
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	N/A	N/A	N/A
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	N/A	N/A	N/A
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	N/A	N/A	N/A
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	N/A	N/A	N/A
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	N/A	N/A	N/A
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	N/A	N/A	N/A
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	N/A	N/A	N/A
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	N/A	N/A	N/A
MC62 CV	CV	3/23/2024 4:56:13 AM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	N/A	N/A	N/A
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	N/A	N/A	N/A
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	N/A	N/A	N/A
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	N/A	N/A	N/A
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	N/A	N/A	N/A
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	N/A	N/A	N/A
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	N/A	N/A	N/A
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	N/A	N/A	N/A
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	N/A	N/A	N/A
MC63 CV	CV	3/23/2024 9:07:09 AM	N/A	N/A	N/A

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Manual Integration Report

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	N/A	N/A

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C4-PFBA **(**216.8 / 171.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFBA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFBA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFBA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C3-PFBA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFBA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C3-PFBA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C3-PFBA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C3-PFBA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C3-PFBA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C3-PFBA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C3-PFBA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C3-PFBA	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C3-PFBA	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C3-PFBA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C3-PFBA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C3-PFBA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C3-PFBA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C3-PFBA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C3-PFBA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C3-PFBA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C3-PFBA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C3-PFBA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C3-PFBA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C3-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C5-PFPeA (268.3 / 223.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C2-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C2-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C2-PFHxA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C2-PFHxA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C2-PFHxA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C2-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C2-PFHxA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C2-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C2-PFHxA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C2-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C5-PFHxA **(**318.0 / 273.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C2-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C2-PFHxA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C2-PFHxA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C2-PFHxA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFHxA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C2-PFHxA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C4-PFHpA (367.1 / 322.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C2-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C2-PFHxA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-PFHxA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C2-PFHxA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFHxA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-PFHxA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline

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Manual Integration Report

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Printed: 25/03/2024 3:10:01 PM

Analyte: 13C8-PFOA **(**421.1 / 376.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOA	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C4-PFOA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C4-PFOA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C4-PFOA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C4-PFOA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOA	Baseline
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C4-PFOA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOA	Baseline
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C4-PFOA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C4-PFOA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOA	Valley

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Manual Integration Report

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Analyte: 13C9-PFNA **(**472.1 / 427.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFNA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFNA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C5-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C5-PFNA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C5-PFNA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C5-PFNA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C5-PFNA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C5-PFNA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C5-PFNA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C5-PFNA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C5-PFNA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C5-PFNA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C5-PFNA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C5-PFNA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C5-PFNA	Baseline
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C5-PFNA	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	13C5-PFNA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C5-PFNA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	13C5-PFNA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C5-PFNA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C5-PFNA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C5-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C5-PFNA	Valley

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Manual Integration Report

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Analyte: 13C6-PFDA **(**519.1 / 474.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFDA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C2-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C2-PFDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C2-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C2-PFDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	13C2-PFDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFDA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C2-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-PFDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFDA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C7-PFUnA (570.0 / 525.1)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFDA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C2-PFDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	13C2-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	13C2-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C2-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C2-PFDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFDA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-PFDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	13C2-PFDA	Baseline

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Manual Integration Report

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Printed: 25/03/2024 3:10:01 PM

Analyte: 13C2-PFDoA (615.1 / 570.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFDA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C2-PFDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C2-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C2-PFDA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C2-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-PFDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C2-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFDA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C2-PFDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	13C2-PFDA	Baseline

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Manual Integration Report

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Printed: 25/03/2024 3:10:01 PM

Analyte: 13C2-PFTeDA (715.2 / 670.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFDA	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	13C2-PFDA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFDA	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C2-PFDA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C2-PFDA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFDA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFDA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFDA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C2-PFDA	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-PFDA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-PFDA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFDA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFDA	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFDA	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C2-PFDA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFDA	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	13C2-PFDA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFDA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C3-PFBS **(**302.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Baseline	18O2-PFHxS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	18O2-PFHxS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	18O2-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	18O2-PFHxS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	18O2-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	18O2-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	18O2-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	18O2-PFHxS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	18O2-PFHxS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	18O2-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	18O2-PFHxS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	18O2-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	18O2-PFHxS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	18O2-PFHxS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	18O2-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	18O2-PFHxS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

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Analyte: 13C3-PFHxS (402.1 / 79.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
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MC63	L5	3/22/2024 9:42:58 PM	Valley	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Baseline	18O2-PFHxS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	18O2-PFHxS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	18O2-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	18O2-PFHxS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	18O2-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	18O2-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	18O2-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	18O2-PFHxS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	18O2-PFHxS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	18O2-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	18O2-PFHxS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	18O2-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Baseline	18O2-PFHxS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	18O2-PFHxS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	18O2-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	18O2-PFHxS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

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Printed: 25/03/2024 3:10:01 PM

Analyte: 13C8-PFOS **(**507.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
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C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

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Printed: 25/03/2024 3:10:01 PM

Analyte: 13C2-4:2FTS (329.1 / 80.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
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MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBA	Valley
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C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C3-PFBA	Valley
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C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	13C3-PFBA	Valley
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	13C3-PFBA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBA	Valley
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Manual Integration Report

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Analyte: 13C2-6:2FTS (429.1 / 80.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
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MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	18O2-PFHxS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Baseline	18O2-PFHxS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	18O2-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	18O2-PFHxS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	18O2-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Baseline	18O2-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	18O2-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	18O2-PFHxS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Baseline	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	18O2-PFHxS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	18O2-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	18O2-PFHxS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	18O2-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	18O2-PFHxS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Baseline	18O2-PFHxS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	18O2-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Baseline	18O2-PFHxS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	18O2-PFHxS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C2-8:2FTS (529.1 / 80.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Baseline	18O2-PFHxS	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	18O2-PFHxS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	18O2-PFHxS	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	18O2-PFHxS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	18O2-PFHxS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	18O2-PFHxS	Baseline
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	18O2-PFHxS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Baseline	18O2-PFHxS	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	18O2-PFHxS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	18O2-PFHxS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	18O2-PFHxS	Baseline
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Baseline	18O2-PFHxS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	18O2-PFHxS	Valley
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	18O2-PFHxS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Baseline	18O2-PFHxS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	18O2-PFHxS	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C8-PFOSA (506.1 / 77.8)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Baseline	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: D3-MeFOSA **(**515.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Baseline	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: D5-EtFOSA **(**531.1 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: d3-MeFOSAA (573.2 / 419.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Baseline	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: d5-EtFOSAA **(**589.2 / 419.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Baseline	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Baseline	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Baseline	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Baseline	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
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Analyte: D7-MeFOSE **(**623.2 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Valley	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Valley	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: D9-EtFOSE **(**639.2 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C4-PFOS	Baseline
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C4-PFOS	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C4-PFOS	Baseline
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C4-PFOS	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C4-PFOS	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C4-PFOS	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C4-PFOS	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C4-PFOS	Baseline
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C4-PFOS	Valley
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C4-PFOS	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C4-PFOS	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C4-PFOS	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C4-PFOS	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C4-PFOS	Baseline
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C4-PFOS	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C4-PFOS	Baseline
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 25/03/2024 3:10:01 PM

Analyte: 13C3-HFPO-DA **(**286.9 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0207A_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	Valley	13C2-PFHxA	Valley
DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	Valley	13C2-PFHxA	Valley
DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	Valley	13C2-PFHxA	Valley
C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	Valley	13C2-PFHxA	Valley
C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	Baseline	13C2-PFHxA	Valley
C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	Valley	13C2-PFHxA	Valley
C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	Valley	13C2-PFHxA	Valley
C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	Valley	13C2-PFHxA	Valley
C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	Valley	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 4:56:13 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	Baseline	13C2-PFHxA	Baseline
C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	Valley	13C2-PFHxA	Valley
C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	Valley	13C2-PFHxA	Valley
C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	Valley	13C2-PFHxA	Valley
C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	Valley	13C2-PFHxA	Baseline
C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	Valley	13C2-PFHxA	Valley
C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	Valley	13C2-PFHxA	Baseline
C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	Valley	13C2-PFHxA	Valley
C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline

Example Calculation for PFAS

Calculation of final concentration from area:

$$Concentration = \left[\frac{AreaN * MEIS}{AreaEIS * (RR\ or\ RF)}\right] * DF/S$$

Where:

AreaN = Area of target
AreaEIS = area of Extracted Internal Standard
MEIS = concentration of Extracted Internal Standard (ng)
RR or RF = Response Factor or Response Ratio
DF = dilution factor
S = Sample Size

Sample ID:	DQ753LCS-FS(0)
Client Sample ID:	Laboratory Control Sample
Sample Size:	0.504
Units:	L
Dilution Factor:	1.000
Target Analyte:	PFBA
MRM Transition:	212.8 / 168.9
Data file:	AG_03222024_1633.wiff
Result table:	24-0207A
Area:	753,247.03
IS Name:	13C4-PFBA
IS Area:	571,032.74
IS Amount (ng):	40
RR or RF	1.11796

Concentration = (753247.03 * 40) / (571032.74 * 1.11796) * 1 / 0.504

ng/L = 93.6

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234

		DQ752PB-FS (Procedural Blank)	DQ753LCS-FS (Laboratory Control Sample)	DQ754LCS-FS (Laboratory Control Sample)	C2687MS-FS (WGNA-SW-36-20240319)	C2687MSD-FS (WGNA-SW-36-20240319)	C2685-FS (WGNA-FB-20240319)	C2686-FS (WGNA-SW-36A-20240319)	C2687-FS (WGNA-SW-36-20240319)	C2688-FS (WGNA-SW-34A-20240319)	C2689-FS (WGNA-SW-42-20240319)	C2690-FS (WGNA-SW-41-20240319)	C2691-FS (WGNA-SW-39A-20240319)	C2692-FS (WGNA-SW-33-20240319)	C2693-FS (WGNA-SW-30-20240319)	C2694-FS (WGNA-SW-20-20240319)	C2695-FS (WGNA-SW-19-20240319)	C2696-FS (WGNA-SW-DUP-02-20240319)
PFBA	375-22-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFPeA	2706-90-3	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFHxA	307-24-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFHpA	375-85-9	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFOA	335-67-1	-	L	L	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNA	375-95-1	-	L	L	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFDA	335-76-2	-	L	L	L	L	-	-	-	L	L	-	L	-	-	-	L	L
PFUnA	2058-94-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFDoA	307-55-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFTrDA	72629-94-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFTeDA	376-06-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFBS	375-73-5	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFPeS	2706-91-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFHpS	375-92-8	-	L	L	L	L	-	L	L	L	L	L	L	L	-	L	L	L
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNS	68259-12-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFDS	335-77-3	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFDoS	79780-39-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
4:2FTS	757124-72-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
6:2FTS	27619-97-2	-	L	L	L	L	-	L	L	L	L	L	-	L	-	L	L	-
8:2FTS	39108-34-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFOSA	754-91-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSA	31506-32-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSA	4151-50-2	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSAA	2355-31-9	-	L/Br	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSAA	2991-50-6	-	L/Br	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSE	24448-09-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSE	1691-99-2	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
HFPO-DA	13252-13-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
Adona	919005-14-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFMPA	377-73-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFMBA	863090-89-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
NFDHA	151772-58-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
9Cl-PF3ONS	756426-58-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
11Cl-PF3OUdS	763051-92-9	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
PFEESA	113507-82-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
3:3 FTCA	356-02-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
5:3 FTCA	914637-49-3	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-
7:3 FTCA	812-70-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-

"L" :Linear
"Br": branched
"L/Br": Linear/Branched
"-": Not detected

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Internal Standard Area Report - Instrument QC Samples NIS Recoveries (%)

Sample Name	Sample ID	Date & Time	13C3-PFBA	13C2-PFHxA	13C4-PFOA	13C5-PFNA	13C2-PFDA	18O2-PFHxS	13C4-PFOS
MC59	L1	3/22/24 20:11	107	103	103	111	103	98	100
MC60	L2	3/22/24 20:34	105	104	101	98	98	98	95
MC61	L3	3/22/24 20:57	98	94	94	91	93	103	94
MC62	L4	3/22/24 21:20	104	103	100	101	107	114	97
MC63	L5	3/22/24 21:42	108	107	105	109	104	102	104
MC64	L6	3/22/24 22:05	95	90	96	98	90	94	97
MC65	L7	3/22/24 22:28	84	100	101	92	106	92	113
MC43 ICC	ICC	3/22/24 23:14	92	91	85	91	79	92	83
MC59 ISC	ISC	3/22/24 23:36	96	91	92	93	91	95	86
MC62 CV	CV	3/22/24 23:59	97	86	92	86	89	95	87
MC62 CV	CV	3/23/24 4:56	93	90	89	92	99	101	93
MC63 CV	CV	3/23/24 9:07	98	96	97	101	100	94	98

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			Procedural Blank
Standard ID		MC62			DQ752PB-FS
Analysis Date		03/22/2024			-
Analysis Time		21:20			-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	-
PFPeA	2706-90-3	4.45	4.05	4.85	-
PFHxA	307-24-4	5.54	5.14	5.94	-
PFHpA	375-85-9	6.28	5.88	6.68	-
PFOA	335-67-1	6.82	6.42	7.22	-
PFNA	375-95-1	7.27	6.87	7.67	-
PFDA	335-76-2	7.68	7.28	8.08	-
PFUnA	2058-94-8	8.06	7.66	8.46	-
PFDoA	307-55-1	8.43	8.03	8.83	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-
PFTeDA	376-06-7	9.11	8.71	9.51	-
PFBS	375-73-5	5.42	5.02	5.82	-
PFPeS	2706-91-4	6.28	5.88	6.68	-
PFHxS	355-46-4	6.87	6.47	7.27	-
PFHpS	375-92-8	7.36	6.96	7.76	-
PFOS	1763-23-1	7.79	7.39	8.19	-
PFNS	68259-12-1	8.18	7.78	8.58	-
PFDS	335-77-3	8.55	8.15	8.95	-
PFDoS	79780-39-5	9.24	8.84	9.64	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-
6:2FTS	27619-97-2	6.64	6.24	7.04	-
8:2FTS	39108-34-4	7.52	7.12	7.92	-
PFOSA	754-91-6	8.15	7.75	8.55	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-
Adona	919005-14-4	6.48	6.08	6.88	-
PFMPA	377-73-1	3.22	2.82	3.62	-
PFMBA	863090-89-5	4.84	4.44	5.24	-
NFDHA	151772-58-6	5.43	5.03	5.83	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-
PFEESA	113507-82-7	5.83	5.43	6.23	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			Procedural Blank
Standard ID	MC62			DQ752PB-FS
Analysis Date	03/22/2024			-
Analysis Time	21:20			-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**
13C4-PFBA	1.96	1.56	2.36	1.92
13C5-PFPeA	4.44	4.04	4.84	4.41
13C5-PFHxA	5.53	5.13	5.93	5.50
13C4-PFHpA	6.27	5.87	6.67	6.22
13C8-PFOA	6.80	6.40	7.20	6.75
13C9-PFNA	7.26	6.86	7.66	7.20
13C6-PFDA	7.67	7.27	8.07	7.61
13C7-PFUnA	8.05	7.65	8.45	7.99
13C2-PFDoA	8.41	8.01	8.81	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.05
13C3-PFBS	5.41	5.01	5.81	5.38
13C3-PFHxS	6.87	6.47	7.27	6.82
13C8-PFOS	7.78	7.38	8.18	7.72
13C2-4:2FTS	5.31	4.91	5.71	5.28
13C2-6:2FTS	6.63	6.23	7.03	6.58
13C2-8:2FTS	7.51	7.11	7.91	7.45
13C8-PFOSA	8.15	7.75	8.55	8.07
d3-MeFOSA	10.16	9.76	10.56	10.12
d5-EtFOSA	10.49	10.09	10.89	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.64
d5-EtFOSAA	7.85	7.45	8.25	7.79
d7-MeFOSE	10.11	9.71	10.51	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.76

NIS	**RT**	Lower	Upper	**RT**
13C3-PFBA	1.96	1.56	2.36	1.93
13C2-PFHxA	5.53	5.13	5.93	5.50
13C4-PFOA	6.81	6.41	7.21	6.75
13C5-PFNA	7.26	6.86	7.66	7.20
13C2-PFDA	7.67	7.27	8.07	7.61
18O2-PFHxS	6.87	6.47	7.27	6.82
13C4-PFOS	7.78	7.38	8.18	7.72

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			Laboratory Control Sample	Laboratory Control Sample
Standard ID		MC62			DQ753LCS-FS	DQ754LCS-FS
Analysis Date		03/22/2024			-	-
Analysis Time		21:20			-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.93	1.95
PFPeA	2706-90-3	4.45	4.05	4.85	4.40	4.41
PFHxA	307-24-4	5.54	5.14	5.94	5.49	5.50
PFHpA	375-85-9	6.28	5.88	6.68	6.21	6.22
PFOA	335-67-1	6.82	6.42	7.22	6.74	6.76
PFNA	375-95-1	7.27	6.87	7.67	7.19	7.20
PFDA	335-76-2	7.68	7.28	8.08	7.60	7.61
PFUnA	2058-94-8	8.06	7.66	8.46	8.00	8.00
PFDoA	307-55-1	8.43	8.03	8.83	8.38	8.37
PFTrDA	72629-94-8	8.77	8.37	9.17	8.74	8.73
PFTeDA	376-06-7	9.11	8.71	9.51	9.08	9.07
PFBS	375-73-5	5.42	5.02	5.82	5.37	5.38
PFPeS	2706-91-4	6.28	5.88	6.68	6.21	6.22
PFHxS	355-46-4	6.87	6.47	7.27	6.80	6.81
PFHpS	375-92-8	7.36	6.96	7.76	7.28	7.30
PFOS	1763-23-1	7.79	7.39	8.19	7.71	7.72
PFNS	68259-12-1	8.18	7.78	8.58	8.12	8.12
PFDS	335-77-3	8.55	8.15	8.95	8.51	8.50
PFDoS	79780-39-5	9.24	8.84	9.64	9.21	9.20
4:2FTS	757124-72-4	5.32	4.92	5.72	5.27	5.28
6:2FTS	27619-97-2	6.64	6.24	7.04	6.57	6.58
8:2FTS	39108-34-4	7.52	7.12	7.92	7.43	7.45
PFOSA	754-91-6	8.15	7.75	8.55	8.07	8.07
NMeFOSA	31506-32-8	10.17	9.77	10.57	10.13	10.13
NEtFOSA	4151-50-2	10.50	10.10	10.90	10.46	10.47
NMeFOSAA	2355-31-9	7.71	7.31	8.11	7.64	7.64
NEtFOSAA	2991-50-6	7.86	7.46	8.26	7.79	7.79
NMeFOSE	24448-09-7	10.13	9.73	10.53	10.09	10.09
NEtFOSE	1691-99-2	10.42	10.02	10.82	10.38	10.39
HFPO-DA	13252-13-6	5.80	5.40	6.20	5.74	5.75
Adona	919005-14-4	6.48	6.08	6.88	6.41	6.43
PFMPA	377-73-1	3.22	2.82	3.62	3.13	3.16
PFMBA	863090-89-5	4.84	4.44	5.24	4.79	4.80
NFDHA	151772-58-6	5.43	5.03	5.83	5.38	5.39
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	7.99	7.99
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	8.76	8.75
PFEESA	113507-82-7	5.83	5.43	6.23	5.77	5.78
3:3 FTCA	356-02-5	3.77	3.37	4.17	3.70	3.72
5:3 FTCA	914637-49-3	5.86	5.46	6.26	5.80	5.81
7:3 FTCA	812-70-4	6.94	6.54	7.34	6.87	6.88

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			Laboratory Control Sample	Laboratory Control Sample
Standard ID	MC62			DQ753LCS-FS	DQ754LCS-FS
Analysis Date	03/22/2024			-	-
Analysis Time	21:20			-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.92	1.93
13C5-PFPeA	4.44	4.04	4.84	4.38	4.40
13C5-PFHxA	5.53	5.13	5.93	5.48	5.48
13C4-PFHpA	6.27	5.87	6.67	6.20	6.21
13C8-PFOA	6.80	6.40	7.20	6.73	6.74
13C9-PFNA	7.26	6.86	7.66	7.18	7.19
13C6-PFDA	7.67	7.27	8.07	7.59	7.60
13C7-PFUnA	8.05	7.65	8.45	7.99	7.99
13C2-PFDoA	8.41	8.01	8.81	8.37	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.07	9.06
13C3-PFBS	5.41	5.01	5.81	5.36	5.37
13C3-PFHxS	6.87	6.47	7.27	6.79	6.81
13C8-PFOS	7.78	7.38	8.18	7.70	7.71
13C2-4:2FTS	5.31	4.91	5.71	5.26	5.27
13C2-6:2FTS	6.63	6.23	7.03	6.56	6.57
13C2-8:2FTS	7.51	7.11	7.91	7.43	7.44
13C8-PFOSA	8.15	7.75	8.55	8.06	8.07
d3-MeFOSA	10.16	9.76	10.56	10.12	10.12
d5-EtFOSA	10.49	10.09	10.89	10.45	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.63	7.64
d5-EtFOSAA	7.85	7.45	8.25	7.77	7.78
d7-MeFOSE	10.11	9.71	10.51	10.07	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.74	5.75
NIS	**RT**	Lower	Upper	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.93	1.94
13C2-PFHxA	5.53	5.13	5.93	5.48	5.49
13C4-PFOA	6.81	6.41	7.21	6.73	6.75
13C5-PFNA	7.26	6.86	7.66	7.18	7.19
13C2-PFDA	7.67	7.27	8.07	7.59	7.60
18O2-PFHxS	6.87	6.47	7.27	6.79	6.81
13C4-PFOS	7.78	7.38	8.18	7.71	7.71

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-36-20240319	WGNA-SW-36-20240319	WGNA-FB-20240319
Standard ID		MC62			C2687MS-FS	C2687MSD-FS	C2685-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.91	1.94	-
PFPeA	2706-90-3	4.45	4.05	4.85	4.41	4.42	-
PFHxA	307-24-4	5.54	5.14	5.94	5.51	5.51	-
PFHpA	375-85-9	6.28	5.88	6.68	6.24	6.24	-
PFOA	335-67-1	6.82	6.42	7.22	6.77	6.77	-
PFNA	375-95-1	7.27	6.87	7.67	7.22	7.22	-
PFDA	335-76-2	7.68	7.28	8.08	7.63	7.62	-
PFUnA	2058-94-8	8.06	7.66	8.46	8.01	8.00	-
PFDoA	307-55-1	8.43	8.03	8.83	8.38	8.37	-
PFTrDA	72629-94-8	8.77	8.37	9.17	8.73	8.73	-
PFTeDA	376-06-7	9.11	8.71	9.51	9.07	9.06	-
PFBS	375-73-5	5.42	5.02	5.82	5.39	5.39	-
PFPeS	2706-91-4	6.28	5.88	6.68	6.24	6.24	-
PFHxS	355-46-4	6.87	6.47	7.27	6.83	6.83	-
PFHpS	375-92-8	7.36	6.96	7.76	7.31	7.30	-
PFOS	1763-23-1	7.79	7.39	8.19	7.73	7.72	-
PFNS	68259-12-1	8.18	7.78	8.58	8.13	8.12	-
PFDS	335-77-3	8.55	8.15	8.95	8.51	8.50	-
PFDoS	79780-39-5	9.24	8.84	9.64	9.20	9.19	-
4:2FTS	757124-72-4	5.32	4.92	5.72	5.29	5.29	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.60	6.60	-
8:2FTS	39108-34-4	7.52	7.12	7.92	7.46	7.45	-
PFOSA	754-91-6	8.15	7.75	8.55	8.08	8.07	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	10.13	10.13	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	10.47	10.46	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	7.66	7.65	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	7.80	7.79	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	10.10	10.09	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	10.39	10.38	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	5.77	5.77	-
Adona	919005-14-4	6.48	6.08	6.88	6.44	6.44	-
PFMPA	377-73-1	3.22	2.82	3.62	3.13	3.17	-
PFMBA	863090-89-5	4.84	4.44	5.24	4.81	4.82	-
NFDHA	151772-58-6	5.43	5.03	5.83	5.40	5.40	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	8.00	7.99	7.98
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	8.76	8.75	-
PFEESA	113507-82-7	5.83	5.43	6.23	5.79	5.79	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	3.71	3.73	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	5.82	5.82	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	6.90	6.90	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-36-20240319	WGNA-SW-36-20240319	WGNA-FB-20240319
Standard ID	MC62			C2687MS-FS	C2687MSD-FS	C2685-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.90	1.93	1.93
13C5-PFPeA	4.44	4.04	4.84	4.40	4.41	4.40
13C5-PFHxA	5.53	5.13	5.93	5.50	5.50	5.49
13C4-PFHpA	6.27	5.87	6.67	6.22	6.22	6.21
13C8-PFOA	6.80	6.40	7.20	6.76	6.76	6.74
13C9-PFNA	7.26	6.86	7.66	7.21	7.20	7.19
13C6-PFDA	7.67	7.27	8.07	7.61	7.61	7.59
13C7-PFUnA	8.05	7.65	8.45	8.00	7.99	7.98
13C2-PFDoA	8.41	8.01	8.81	8.37	8.36	8.35
13C2-PFTeDA	9.10	8.70	9.50	9.06	9.06	9.05
13C3-PFBS	5.41	5.01	5.81	5.38	5.38	5.37
13C3-PFHxS	6.87	6.47	7.27	6.82	6.82	6.81
13C8-PFOS	7.78	7.38	8.18	7.72	7.71	7.71
13C2-4:2FTS	5.31	4.91	5.71	5.28	5.28	5.28
13C2-6:2FTS	6.63	6.23	7.03	6.59	6.59	6.57
13C2-8:2FTS	7.51	7.11	7.91	7.45	7.45	7.43
13C8-PFOSA	8.15	7.75	8.55	8.07	8.07	8.06
d3-MeFOSA	10.16	9.76	10.56	10.13	10.12	10.12
d5-EtFOSA	10.49	10.09	10.89	10.46	10.45	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.65	7.64	7.63
d5-EtFOSAA	7.85	7.45	8.25	7.79	7.78	7.78
d7-MeFOSE	10.11	9.71	10.51	10.07	10.06	10.06
d9-EtFOSE	10.40	10.00	10.80	10.37	10.36	10.35
13C3-HFPO-DA	5.80	5.40	6.20	5.76	5.76	5.75
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.91	1.93	1.93
13C2-PFHxA	5.53	5.13	5.93	5.50	5.50	5.49
13C4-PFOA	6.81	6.41	7.21	6.76	6.76	6.75
13C5-PFNA	7.26	6.86	7.66	7.21	7.21	7.19
13C2-PFDA	7.67	7.27	8.07	7.62	7.61	7.60
18O2-PFHxS	6.87	6.47	7.27	6.82	6.82	6.81
13C4-PFOS	7.78	7.38	8.18	7.73	7.72	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-36A-20240319	WGNA-SW-36-20240319	WGNA-SW-34A-20240319
Standard ID		MC62			C2686-FS	C2687-FS	C2688-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.91	1.94	1.92
PFPeA	2706-90-3	4.45	4.05	4.85	4.40	4.43	4.41
PFHxA	307-24-4	5.54	5.14	5.94	5.50	5.52	5.50
PFHpA	375-85-9	6.28	5.88	6.68	6.22	6.25	6.23
PFOA	335-67-1	6.82	6.42	7.22	6.75	6.78	6.75
PFNA	375-95-1	7.27	6.87	7.67	7.19	7.22	7.20
PFDA	335-76-2	7.68	7.28	8.08	-	-	7.61
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.37	5.40	5.38
PFPeS	2706-91-4	6.28	5.88	6.68	6.22	6.25	6.23
PFHxS	355-46-4	6.87	6.47	7.27	6.81	6.84	6.81
PFHpS	375-92-8	7.36	6.96	7.76	7.29	7.31	7.29
PFOS	1763-23-1	7.79	7.39	8.19	7.71	7.72	7.71
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.57	6.61	6.58
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	8.74	8.76	8.74
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-	5.81
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-36A-20240319	WGNA-SW-36-20240319	WGNA-SW-34A-20240319
Standard ID	MC62			C2686-FS	C2687-FS	C2688-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.90	1.93	1.91
13C5-PFPeA	4.44	4.04	4.84	4.39	4.42	4.40
13C5-PFHxA	5.53	5.13	5.93	5.48	5.51	5.49
13C4-PFHpA	6.27	5.87	6.67	6.21	6.24	6.21
13C8-PFOA	6.80	6.40	7.20	6.73	6.76	6.74
13C9-PFNA	7.26	6.86	7.66	7.18	7.21	7.19
13C6-PFDA	7.67	7.27	8.07	7.59	7.62	7.59
13C7-PFUnA	8.05	7.65	8.45	7.97	8.00	7.98
13C2-PFDoA	8.41	8.01	8.81	8.35	8.37	8.35
13C2-PFTeDA	9.10	8.70	9.50	9.05	9.06	9.05
13C3-PFBS	5.41	5.01	5.81	5.36	5.39	5.37
13C3-PFHxS	6.87	6.47	7.27	6.80	6.83	6.80
13C8-PFOS	7.78	7.38	8.18	7.70	7.72	7.70
13C2-4:2FTS	5.31	4.91	5.71	5.27	5.29	5.27
13C2-6:2FTS	6.63	6.23	7.03	6.57	6.60	6.57
13C2-8:2FTS	7.51	7.11	7.91	7.43	7.45	7.43
13C8-PFOSA	8.15	7.75	8.55	8.05	8.08	8.05
d3-MeFOSA	10.16	9.76	10.56	10.11	10.13	10.11
d5-EtFOSA	10.49	10.09	10.89	10.45	10.46	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.63	7.65	7.63
d5-EtFOSAA	7.85	7.45	8.25	7.77	7.80	7.77
d7-MeFOSE	10.11	9.71	10.51	10.06	10.07	10.06
d9-EtFOSE	10.40	10.00	10.80	10.35	10.36	10.35
13C3-HFPO-DA	5.80	5.40	6.20	5.74	5.77	5.75
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.90	1.93	1.91
13C2-PFHxA	5.53	5.13	5.93	5.48	5.51	5.49
13C4-PFOA	6.81	6.41	7.21	6.74	6.77	6.74
13C5-PFNA	7.26	6.86	7.66	7.19	7.21	7.19
13C2-PFDA	7.67	7.27	8.07	7.59	7.62	7.59
18O2-PFHxS	6.87	6.47	7.27	6.80	6.83	6.81
13C4-PFOS	7.78	7.38	8.18	7.70	7.73	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-42-20240319	WGNA-SW-41-20240319	WGNA-SW-39A-20240319
Standard ID		MC62			C2689-FS	C2690-FS	C2691-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.92	1.93	1.93
PFPeA	2706-90-3	4.45	4.05	4.85	4.42	4.41	4.42
PFHxA	307-24-4	5.54	5.14	5.94	5.51	5.50	5.51
PFHpA	375-85-9	6.28	5.88	6.68	6.24	6.22	6.23
PFOA	335-67-1	6.82	6.42	7.22	6.77	6.75	6.76
PFNA	375-95-1	7.27	6.87	7.67	7.22	7.20	7.21
PFDA	335-76-2	7.68	7.28	8.08	7.63	-	7.61
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.39	5.37	5.39
PFPeS	2706-91-4	6.28	5.88	6.68	6.24	6.22	6.23
PFHxS	355-46-4	6.87	6.47	7.27	6.83	6.81	6.82
PFHpS	375-92-8	7.36	6.96	7.76	7.31	7.29	7.30
PFOS	1763-23-1	7.79	7.39	8.19	7.73	7.71	7.72
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.60	6.58	6.59
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	5.76	5.77
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	7.99
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	8.75
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	5.83	5.81	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-42-20240319	WGNA-SW-41-20240319	WGNA-SW-39A-20240319
Standard ID	MC62			C2689-FS	C2690-FS	C2691-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.91	1.92	1.92
13C5-PFPeA	4.44	4.04	4.84	4.41	4.40	4.41
13C5-PFHxA	5.53	5.13	5.93	5.50	5.48	5.50
13C4-PFHpA	6.27	5.87	6.67	6.22	6.21	6.22
13C8-PFOA	6.80	6.40	7.20	6.76	6.74	6.75
13C9-PFNA	7.26	6.86	7.66	7.21	7.19	7.20
13C6-PFDA	7.67	7.27	8.07	7.61	7.60	7.60
13C7-PFUnA	8.05	7.65	8.45	8.00	7.98	7.99
13C2-PFDoA	8.41	8.01	8.81	8.37	8.35	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.06	9.05	9.06
13C3-PFBS	5.41	5.01	5.81	5.38	5.37	5.38
13C3-PFHxS	6.87	6.47	7.27	6.82	6.80	6.81
13C8-PFOS	7.78	7.38	8.18	7.72	7.71	7.71
13C2-4:2FTS	5.31	4.91	5.71	5.29	5.27	5.28
13C2-6:2FTS	6.63	6.23	7.03	6.59	6.57	6.58
13C2-8:2FTS	7.51	7.11	7.91	7.45	7.44	7.44
13C8-PFOSA	8.15	7.75	8.55	8.07	8.05	8.06
d3-MeFOSA	10.16	9.76	10.56	10.12	10.12	10.13
d5-EtFOSA	10.49	10.09	10.89	10.45	10.45	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.65	7.63	7.64
d5-EtFOSAA	7.85	7.45	8.25	7.79	7.78	7.78
d7-MeFOSE	10.11	9.71	10.51	10.07	10.06	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36	10.36	10.37
13C3-HFPO-DA	5.80	5.40	6.20	5.76	5.74	5.76
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.91	1.92	1.92
13C2-PFHxA	5.53	5.13	5.93	5.50	5.49	5.50
13C4-PFOA	6.81	6.41	7.21	6.76	6.74	6.75
13C5-PFNA	7.26	6.86	7.66	7.21	7.19	7.20
13C2-PFDA	7.67	7.27	8.07	7.62	7.60	7.60
18O2-PFHxS	6.87	6.47	7.27	6.82	6.80	6.81
13C4-PFOS	7.78	7.38	8.18	7.73	7.71	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-33-20240319	WGNA-SW-30-20240319	WGNA-SW-20-20240319
Standard ID		MC62			C2692-FS	C2693-FS	C2694-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.94	1.94	1.93
PFPeA	2706-90-3	4.45	4.05	4.85	4.40	4.43	4.42
PFHxA	307-24-4	5.54	5.14	5.94	5.49	5.51	5.51
PFHpA	375-85-9	6.28	5.88	6.68	6.21	6.24	6.24
PFOA	335-67-1	6.82	6.42	7.22	6.74	6.77	6.76
PFNA	375-95-1	7.27	6.87	7.67	7.19	7.21	7.22
PFDA	335-76-2	7.68	7.28	8.08	-	-	-
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.37	5.39	5.39
PFPeS	2706-91-4	6.28	5.88	6.68	6.21	6.24	6.24
PFHxS	355-46-4	6.87	6.47	7.27	6.80	6.83	6.82
PFHpS	375-92-8	7.36	6.96	7.76	7.28	-	7.31
PFOS	1763-23-1	7.79	7.39	8.19	7.70	7.63	7.73
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.57	6.60	6.59
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-33-20240319	WGNA-SW-30-20240319	WGNA-SW-20-20240319
Standard ID	MC62			C2692-FS	C2693-FS	C2694-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.93	1.93	1.92
13C5-PFPeA	4.44	4.04	4.84	4.39	4.42	4.41
13C5-PFHxA	5.53	5.13	5.93	5.48	5.50	5.50
13C4-PFHpA	6.27	5.87	6.67	6.20	6.23	6.22
13C8-PFOA	6.80	6.40	7.20	6.73	6.76	6.75
13C9-PFNA	7.26	6.86	7.66	7.18	7.20	7.21
13C6-PFDA	7.67	7.27	8.07	7.58	7.61	7.61
13C7-PFUnA	8.05	7.65	8.45	7.97	7.99	8.00
13C2-PFDoA	8.41	8.01	8.81	8.34	8.36	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.05	9.06	9.06
13C3-PFBS	5.41	5.01	5.81	5.36	5.38	5.38
13C3-PFHxS	6.87	6.47	7.27	6.79	6.82	6.82
13C8-PFOS	7.78	7.38	8.18	7.69	7.71	7.73
13C2-4:2FTS	5.31	4.91	5.71	5.27	5.29	5.29
13C2-6:2FTS	6.63	6.23	7.03	6.56	6.59	6.58
13C2-8:2FTS	7.51	7.11	7.91	7.42	7.45	7.46
13C8-PFOSA	8.15	7.75	8.55	8.04	8.06	8.07
d3-MeFOSA	10.16	9.76	10.56	10.12	10.12	10.12
d5-EtFOSA	10.49	10.09	10.89	10.45	10.46	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.62	7.64	7.65
d5-EtFOSAA	7.85	7.45	8.25	7.76	7.78	7.80
d7-MeFOSE	10.11	9.71	10.51	10.06	10.07	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36	10.36	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.74	5.76	5.76
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.93	1.94	1.92
13C2-PFHxA	5.53	5.13	5.93	5.48	5.50	5.50
13C4-PFOA	6.81	6.41	7.21	6.73	6.76	6.75
13C5-PFNA	7.26	6.86	7.66	7.18	7.21	7.21
13C2-PFDA	7.67	7.27	8.07	7.59	7.61	7.62
18O2-PFHxS	6.87	6.47	7.27	6.79	6.82	6.82
13C4-PFOS	7.78	7.38	8.18	7.70	7.72	7.73

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-19-20240319	WGNA-SW-DUP-02-20240319
Standard ID		MC62			C2695-FS	C2696-FS
Analysis Date		03/22/2024			-	-
Analysis Time		21:20			-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.91	1.92
PFPeA	2706-90-3	4.45	4.05	4.85	4.39	4.40
PFHxA	307-24-4	5.54	5.14	5.94	5.48	5.49
PFHpA	375-85-9	6.28	5.88	6.68	6.19	6.21
PFOA	335-67-1	6.82	6.42	7.22	6.72	6.74
PFNA	375-95-1	7.27	6.87	7.67	7.18	7.19
PFDA	335-76-2	7.68	7.28	8.08	7.58	7.60
PFUnA	2058-94-8	8.06	7.66	8.46	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.36	5.37
PFPeS	2706-91-4	6.28	5.88	6.68	6.20	6.21
PFHxS	355-46-4	6.87	6.47	7.27	6.78	6.79
PFHpS	375-92-8	7.36	6.96	7.76	7.27	7.28
PFOS	1763-23-1	7.79	7.39	8.19	7.69	7.71
PFNS	68259-12-1	8.18	7.78	8.58	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.55	6.56
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	5.73
Adona	919005-14-4	6.48	6.08	6.88	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-19-20240319	WGNA-SW-DUP-02-20240319
Standard ID	MC62			C2695-FS	C2696-FS
Analysis Date	03/22/2024			-	-
Analysis Time	21:20			-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.89	1.91
13C5-PFPeA	4.44	4.04	4.84	4.38	4.39
13C5-PFHxA	5.53	5.13	5.93	5.47	5.47
13C4-PFHpA	6.27	5.87	6.67	6.18	6.19
13C8-PFOA	6.80	6.40	7.20	6.71	6.73
13C9-PFNA	7.26	6.86	7.66	7.16	7.18
13C6-PFDA	7.67	7.27	8.07	7.57	7.59
13C7-PFUnA	8.05	7.65	8.45	7.96	7.97
13C2-PFDoA	8.41	8.01	8.81	8.33	8.34
13C2-PFTeDA	9.10	8.70	9.50	9.03	9.04
13C3-PFBS	5.41	5.01	5.81	5.35	5.36
13C3-PFHxS	6.87	6.47	7.27	6.77	6.79
13C8-PFOS	7.78	7.38	8.18	7.68	7.70
13C2-4:2FTS	5.31	4.91	5.71	5.25	5.26
13C2-6:2FTS	6.63	6.23	7.03	6.54	6.55
13C2-8:2FTS	7.51	7.11	7.91	7.41	7.43
13C8-PFOSA	8.15	7.75	8.55	8.03	8.04
d3-MeFOSA	10.16	9.76	10.56	10.10	10.11
d5-EtFOSA	10.49	10.09	10.89	10.43	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.61	7.62
d5-EtFOSAA	7.85	7.45	8.25	7.75	7.77
d7-MeFOSE	10.11	9.71	10.51	10.04	10.06
d9-EtFOSE	10.40	10.00	10.80	10.34	10.35
13C3-HFPO-DA	5.80	5.40	6.20	5.72	5.73
NIS	**RT**	Lower	Upper	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.90	1.91
13C2-PFHxA	5.53	5.13	5.93	5.47	5.48
13C4-PFOA	6.81	6.41	7.21	6.71	6.73
13C5-PFNA	7.26	6.86	7.66	7.16	7.18
13C2-PFDA	7.67	7.27	8.07	7.58	7.59
18O2-PFHxS	6.87	6.47	7.27	6.78	6.79
13C4-PFOS	7.78	7.38	8.18	7.69	7.70

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		Procedural Blank	Laboratory Control Sample
Standard ID		DQ752PB-FS	DQ753LCS-FS
Analysis Date		-	-
Analysis Time		-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)
PFBA	375-22-4	-	1.93
PFPeA	2706-90-3	-	4.40
PFHxA	307-24-4	-	5.49
PFHpA	375-85-9	-	6.21
PFOA	335-67-1	-	6.74
PFNA	375-95-1	-	7.19
PFDA	335-76-2	-	7.60
PFUnA	2058-94-8	-	8.00
PFDoA	307-55-1	-	8.38
PFTeDA	376-06-7	-	9.08
PFBS	375-73-5	-	5.37
PFHxS	355-46-4	-	6.80
PFOS	1763-23-1	-	7.71
4:2FTS	757124-72-4	-	5.27
6:2FTS	27619-97-2	-	6.57
8:2FTS	39108-34-4	-	7.43
PFOSA	754-91-6	-	8.07
NMeFOSA	31506-32-8	-	10.13
NEtFOSA	4151-50-2	-	10.46
NMeFOSAA	2355-31-9	-	7.64
NEtFOSAA	2991-50-6	-	7.79
NMeFOSE	24448-09-7	-	10.09
NEtFOSE	1691-99-2	-	10.38
HFPO-DA	13252-13-6	-	5.74
EIS		**RT**	**RT**
13C4-PFBA		1.92	1.92
13C5-PFPeA		4.41	4.38
13C5-PFHxA		5.50	5.48
13C4-PFHpA		6.22	6.20
13C8-PFOA		6.75	6.73
13C9-PFNA		7.20	7.18
13C6-PFDA		7.61	7.59
13C7-PFUnA		7.99	7.99
13C2-PFDoA		8.36	8.37
13C2-PFTeDA		9.05	9.07
13C3-PFBS		5.38	5.36
13C3-PFHxS		6.82	6.79
13C8-PFOS		7.72	7.70
13C2-4:2FTS		5.28	5.26
13C2-6:2FTS		6.58	6.56
13C2-8:2FTS		7.45	7.43
13C8-PFOSA		8.07	8.06
d3-MeFOSA		10.12	10.12
d5-EtFOSA		10.46	10.45
d3-MeFOSAA		7.64	7.63
d5-EtFOSAA		7.79	7.77
d7-MeFOSE		10.07	10.07
d9-EtFOSE		10.36	10.36
13C3-HFPO-DA		5.76	5.74

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		Laboratory Control Sample	WGNA-SW-36-20240319	WGNA-SW-36-20240319	WGNA-FB-20240319
Standard ID		DQ754LCS-FS	C2687MS-FS	C2687MSD-FS	C2685-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.95	1.91	1.94	-
PFPeA	2706-90-3	4.41	4.41	4.42	-
PFHxA	307-24-4	5.50	5.51	5.51	-
PFHpA	375-85-9	6.22	6.24	6.24	-
PFOA	335-67-1	6.76	6.77	6.77	-
PFNA	375-95-1	7.20	7.22	7.22	-
PFDA	335-76-2	7.61	7.63	7.62	-
PFUnA	2058-94-8	8.00	8.01	8.00	-
PFDoA	307-55-1	8.37	8.38	8.37	-
PFTeDA	376-06-7	9.07	9.07	9.06	-
PFBS	375-73-5	5.38	5.39	5.39	-
PFHxS	355-46-4	6.81	6.83	6.83	-
PFOS	1763-23-1	7.72	7.73	7.72	-
4:2FTS	757124-72-4	5.28	5.29	5.29	-
6:2FTS	27619-97-2	6.58	6.60	6.60	-
8:2FTS	39108-34-4	7.45	7.46	7.45	-
PFOSA	754-91-6	8.07	8.08	8.07	-
NMeFOSA	31506-32-8	10.13	10.13	10.13	-
NEtFOSA	4151-50-2	10.47	10.47	10.46	-
NMeFOSAA	2355-31-9	7.64	7.66	7.65	-
NEtFOSAA	2991-50-6	7.79	7.80	7.79	-
NMeFOSE	24448-09-7	10.09	10.10	10.09	-
NEtFOSE	1691-99-2	10.39	10.39	10.38	-
HFPO-DA	13252-13-6	5.75	5.77	5.77	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.93	1.90	1.93	1.93
13C5-PFPeA		4.40	4.40	4.41	4.40
13C5-PFHxA		5.48	5.50	5.50	5.49
13C4-PFHpA		6.21	6.22	6.22	6.21
13C8-PFOA		6.74	6.76	6.76	6.74
13C9-PFNA		7.19	7.21	7.20	7.19
13C6-PFDA		7.60	7.61	7.61	7.59
13C7-PFUnA		7.99	8.00	7.99	7.98
13C2-PFDoA		8.36	8.37	8.36	8.35
13C2-PFTeDA		9.06	9.06	9.06	9.05
13C3-PFBS		5.37	5.38	5.38	5.37
13C3-PFHxS		6.81	6.82	6.82	6.81
13C8-PFOS		7.71	7.72	7.71	7.71
13C2-4:2FTS		5.27	5.28	5.28	5.28
13C2-6:2FTS		6.57	6.59	6.59	6.57
13C2-8:2FTS		7.44	7.45	7.45	7.43
13C8-PFOSA		8.07	8.07	8.07	8.06
d3-MeFOSA		10.12	10.13	10.12	10.12
d5-EtFOSA		10.46	10.46	10.45	10.45
d3-MeFOSAA		7.64	7.65	7.64	7.63
d5-EtFOSAA		7.78	7.79	7.78	7.78
d7-MeFOSE		10.07	10.07	10.06	10.06
d9-EtFOSE		10.36	10.37	10.36	10.35
13C3-HFPO-DA		5.75	5.76	5.76	5.75

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		WGNA-SW-36A-20240319	WGNA-SW-36-20240319	WGNA-SW-34A-20240319	WGNA-SW-42-20240319
Standard ID		C2686-FS	C2687-FS	C2688-FS	C2689-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.91	1.94	1.92	1.92
PFPeA	2706-90-3	4.40	4.43	4.41	4.42
PFHxA	307-24-4	5.50	5.52	5.50	5.51
PFHpA	375-85-9	6.22	6.25	6.23	6.24
PFOA	335-67-1	6.75	6.78	6.75	6.77
PFNA	375-95-1	7.19	7.22	7.20	7.22
PFDA	335-76-2	-	-	7.61	7.63
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.37	5.40	5.38	5.39
PFHxS	355-46-4	6.81	6.84	6.81	6.83
PFOS	1763-23-1	7.71	7.72	7.71	7.73
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	6.57	6.61	6.58	6.60
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.90	1.93	1.91	1.91
13C5-PFPeA		4.39	4.42	4.40	4.41
13C5-PFHxA		5.48	5.51	5.49	5.50
13C4-PFHpA		6.21	6.24	6.21	6.22
13C8-PFOA		6.73	6.76	6.74	6.76
13C9-PFNA		7.18	7.21	7.19	7.21
13C6-PFDA		7.59	7.62	7.59	7.61
13C7-PFUnA		7.97	8.00	7.98	8.00
13C2-PFDoA		8.35	8.37	8.35	8.37
13C2-PFTeDA		9.05	9.06	9.05	9.06
13C3-PFBS		5.36	5.39	5.37	5.38
13C3-PFHxS		6.80	6.83	6.80	6.82
13C8-PFOS		7.70	7.72	7.70	7.72
13C2-4:2FTS		5.27	5.29	5.27	5.29
13C2-6:2FTS		6.57	6.60	6.57	6.59
13C2-8:2FTS		7.43	7.45	7.43	7.45
13C8-PFOSA		8.05	8.08	8.05	8.07
d3-MeFOSA		10.11	10.13	10.11	10.12
d5-EtFOSA		10.45	10.46	10.45	10.45
d3-MeFOSAA		7.63	7.65	7.63	7.65
d5-EtFOSAA		7.77	7.80	7.77	7.79
d7-MeFOSE		10.06	10.07	10.06	10.07
d9-EtFOSE		10.35	10.36	10.35	10.36
13C3-HFPO-DA		5.74	5.77	5.75	5.76

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		WGNA-SW-41-20240319	WGNA-SW-39A-20240319	WGNA-SW-33-20240319	WGNA-SW-30-20240319
Standard ID		C2690-FS	C2691-FS	C2692-FS	C2693-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.93	1.93	1.94	1.94
PFPeA	2706-90-3	4.41	4.42	4.40	4.43
PFHxA	307-24-4	5.50	5.51	5.49	5.51
PFHpA	375-85-9	6.22	6.23	6.21	6.24
PFOA	335-67-1	6.75	6.76	6.74	6.77
PFNA	375-95-1	7.20	7.21	7.19	7.21
PFDA	335-76-2	-	7.61	-	-
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.37	5.39	5.37	5.39
PFHxS	355-46-4	6.81	6.82	6.80	6.83
PFOS	1763-23-1	7.71	7.72	7.70	7.63
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	6.58	6.59	6.57	6.60
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	5.76	5.77	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.92	1.92	1.93	1.93
13C5-PFPeA		4.40	4.41	4.39	4.42
13C5-PFHxA		5.48	5.50	5.48	5.50
13C4-PFHpA		6.21	6.22	6.20	6.23
13C8-PFOA		6.74	6.75	6.73	6.76
13C9-PFNA		7.19	7.20	7.18	7.20
13C6-PFDA		7.60	7.60	7.58	7.61
13C7-PFUnA		7.98	7.99	7.97	7.99
13C2-PFDoA		8.35	8.36	8.34	8.36
13C2-PFTeDA		9.05	9.06	9.05	9.06
13C3-PFBS		5.37	5.38	5.36	5.38
13C3-PFHxS		6.80	6.81	6.79	6.82
13C8-PFOS		7.71	7.71	7.69	7.71
13C2-4:2FTS		5.27	5.28	5.27	5.29
13C2-6:2FTS		6.57	6.58	6.56	6.59
13C2-8:2FTS		7.44	7.44	7.42	7.45
13C8-PFOSA		8.05	8.06	8.04	8.06
d3-MeFOSA		10.12	10.13	10.12	10.12
d5-EtFOSA		10.45	10.46	10.45	10.46
d3-MeFOSAA		7.63	7.64	7.62	7.64
d5-EtFOSAA		7.78	7.78	7.76	7.78
d7-MeFOSE		10.06	10.07	10.06	10.07
d9-EtFOSE		10.36	10.37	10.36	10.36
13C3-HFPO-DA		5.74	5.76	5.74	5.76

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0207
Data Set: DP-24-0234
Test Code: EPA_1633

Client ID / Description		WGNA-SW-20-20240319	WGNA-SW-19-20240319	WGNA-SW-DUP-02-20240319
Standard ID		C2694-FS	C2695-FS	C2696-FS
Analysis Date		-	-	-
Analysis Time		-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.93	1.91	1.92
PFPeA	2706-90-3	4.42	4.39	4.40
PFHxA	307-24-4	5.51	5.48	5.49
PFHpA	375-85-9	6.24	6.19	6.21
PFOA	335-67-1	6.76	6.72	6.74
PFNA	375-95-1	7.22	7.18	7.19
PFDA	335-76-2	-	7.58	7.60
PFUnA	2058-94-8	-	-	-
PFDoA	307-55-1	-	-	-
PFTeDA	376-06-7	-	-	-
PFBS	375-73-5	5.39	5.36	5.37
PFHxS	355-46-4	6.82	6.78	6.79
PFOS	1763-23-1	7.73	7.69	7.71
4:2FTS	757124-72-4	-	-	-
6:2FTS	27619-97-2	6.59	6.55	6.56
8:2FTS	39108-34-4	-	-	-
PFOSA	754-91-6	-	-	-
NMeFOSA	31506-32-8	-	-	-
NEtFOSA	4151-50-2	-	-	-
NMeFOSAA	2355-31-9	-	-	-
NEtFOSAA	2991-50-6	-	-	-
NMeFOSE	24448-09-7	-	-	-
NEtFOSE	1691-99-2	-	-	-
HFPO-DA	13252-13-6	-	-	5.73
EIS		**RT**	**RT**	**RT**
13C4-PFBA		1.92	1.89	1.91
13C5-PFPeA		4.41	4.38	4.39
13C5-PFHxA		5.50	5.47	5.47
13C4-PFHpA		6.22	6.18	6.19
13C8-PFOA		6.75	6.71	6.73
13C9-PFNA		7.21	7.16	7.18
13C6-PFDA		7.61	7.57	7.59
13C7-PFUnA		8.00	7.96	7.97
13C2-PFDoA		8.36	8.33	8.34
13C2-PFTeDA		9.06	9.03	9.04
13C3-PFBS		5.38	5.35	5.36
13C3-PFHxS		6.82	6.77	6.79
13C8-PFOS		7.73	7.68	7.70
13C2-4:2FTS		5.29	5.25	5.26
13C2-6:2FTS		6.58	6.54	6.55
13C2-8:2FTS		7.46	7.41	7.43
13C8-PFOSA		8.07	8.03	8.04
d3-MeFOSA		10.12	10.10	10.11
d5-EtFOSA		10.46	10.43	10.45
d3-MeFOSAA		7.65	7.61	7.62
d5-EtFOSAA		7.80	7.75	7.77
d7-MeFOSE		10.07	10.04	10.06
d9-EtFOSE		10.36	10.34	10.35
13C3-HFPO-DA		5.76	5.72	5.73

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MDL Values calculated based on 40 CFR 136 (2017)
Draft EPA 1633
Matrix: Water (based on 0.5 L sample)
Calculated to 3 significant figures

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.597	1.25	6.40
PFPeA	2706-90-3	0.563	1.25	3.20
PFHxA	307-24-4	0.412	1.00	1.60
PFHpA	375-85-9	0.173	0.50	1.60
PFOA	335-67-1	0.290	0.75	1.60
PFNA	375-95-1	0.250	0.50	1.60
PFDA	335-76-2	0.223	0.50	1.60
PFUnA	2058-94-8	0.203	0.50	1.60
PFDoA	307-55-1	0.301	0.75	1.60
PFTrDA	72629-94-8	0.363	0.75	1.60
PFTeDA	376-06-7	0.429	1.00	1.60
PFBS	375-73-5	0.177	0.50	1.60
PFPeS	2706-91-4	0.129	0.50	1.60
PFHxS	355-46-4	0.291	0.75	1.60
PFHpS	375-92-8	0.204	0.50	1.60
PFOS	1763-23-1	0.248	0.50	1.60
PFNS	68259-12-1	0.249	0.50	1.60
PFDS	335-77-3	0.162	0.50	1.60
PFDoS	79780-39-5	0.180	0.50	1.60
4:2FTS	757124-72-4	1.32	2.75	6.40
6:2FTS	27619-97-2	1.48	3.00	6.40
8:2FTS	39108-34-4	0.916	2.00	6.40
PFOSA	754-91-6	0.188	0.50	1.60
NMeFOSA	31506-32-8	0.199	0.50	1.60
NEtFOSA	4151-50-2	0.0998	0.25	1.60
NMeFOSAA	2355-31-9	0.655	1.50	1.60
NEtFOSAA	2991-50-6	0.571	1.25	1.60
NMeFOSE	24448-09-7	1.65	3.50	16.0
NEtFOSE	1691-99-2	1.45	3.00	16.0
HFPO-DA	13252-13-6	0.748	1.50	6.40
Adona	919005-14-4	0.694	1.50	6.40
PFMPA	377-73-1	0.628	1.50	3.20
PFMBA	863090-89-5	0.600	1.25	3.20
NFDHA	151772-58-6	0.760	1.75	3.20
9Cl-PF3ONS	756426-58-1	0.699	1.50	6.40
11Cl-PF3OUdS	763051-92-9	1.09	2.25	6.40

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Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFEESA	113507-82-7	0.212	0.50	3.20
3:3 FTCA	356-02-5	1.67	3.50	8.00
5:3 FTCA	914637-49-3	4.46	9.00	40.0
7:3 FTCA	812-70-4	5.22	10.50	40.0

All analytes are included on our DoD ELAP and NELAP scope of accreditation.

Analytical Transitions for PFAS in non-potable water, solid, and tissue

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	212.8 / 168.9	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 118.9
PFHpA	375-85-9	Target	363.1 / 319.0	363.1 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	512.9 / 469.0	512.9 / 219.0
PFUnA	2058-94-8	Target	563.1 / 519.0	563.1 / 269.1
PFDoA	307-55-1	Target	613.1 / 569.0	613.1 / 319.0
PFTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 168.9
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 168.9
PFBS	375-73-5	Target	298.7 / 79.9	298.9 / 98.8
PFPeS	2706-91-4	Target	349.1 / 79.9	349.1 / 98.9
PFHxS	355-46-4	Target	398.7 / 79.9	398.7 / 98.9
PFHpS	375-92-8	Target	449.0 / 79.9	449.0 / 98.9
PFOS	1763-23-1	Target	498.9 / 79.9	498.9 / 98.9
PFNS	68259-12-1	Target	548.8 / 79.9	548.8 / 98.9
PFDS	335-77-3	Target	599.0 / 79.9	599.0 / 98.9
PFDoS	79780-39-5	Target	699.1 / 79.9	699.1 / 98.9
4:2FTS	757124-72-4	Target	327.1 / 307.0	327.1 / 80.9
6:2FTS	27619-97-2	Target	427.1 / 407.0	427.1 / 80.9
8:2FTS	39108-34-4	Target	527.1 / 507.0	527.1 / 80.8
PFOSA	754-91-6	Target	498.1 / 77.9	498.1 / 478.0
NMeFOSA	31506-32-8	Target	511.9 / 219.0	511.9 / 169.0
NEtFOSA	4151-50-2	Target	526.0 / 219.0	526.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.1 / 419.0	570.1 / 483.0
NEtFOSAA	2991-50-6	Target	584.2 / 419.1	584.2 / 526.0
NMeFOSE	24448-09-7	Target	616.1 / 58.9	NA
NEtFOSE	1691-99-2	Target	630.0 / 58.9	NA
HFPO-DA	13252-13-6	Target	284.9 / 168.9	284.9 / 184.9
ADONA	919005-14-4	Target	376.9 / 250.9	376.9 / 84.8

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
9Cl-PF3ONS	756426-58-1	Target	530.8 / 351.0	532.8 / 353.0
11Cl-PF3OUdS	763051-92-9	Target	630.9 / 450.9	632.9 / 452.9
3:3 FTCA	356-02-5	Target	241.0 / 177.0	241.0 / 117.0
5:3 FTCA	914637-49-3	Target	341.0 / 237.1	341.0 / 217.0
7:3 FTCA	812-70-4	Target	441.0 / 316.9	441.0 / 336.9
NFDHA	151772-58-6	Target	295.0 / 201.1	295.0 / 84.9
PFEESA	113507-82-7	Target	314.8 / 134.9	314.8 / 82.9
PFMPA	377-73-1	Target	229.0 / 84.9	NA
PFMBA	863090-89-5	Target	279.0 / 85.1	NA
13C4-PFBA	NA	SIS[1]	216.8 / 171.9	NA
13C5-PFPeA	NA	SIS[1]	268.3 / 223.0	NA
13C5-PFHxA	NA	SIS[1]	318.0 / 273.0	NA
13C4-PFHpA	NA	SIS[1]	367.1 / 322.0	NA
13C8-PFOA	NA	SIS[1]	421.1 / 376.0	NA
13C9-PFNA	NA	SIS[1]	472.1 / 427.0	NA
13C6-PFDA	NA	SIS[1]	519.1 / 474.1	NA
13C7-PFUnA	NA	SIS[1]	570.0 / 525.1	NA
13C2-PFDoA	NA	SIS[1]	615.1 / 570.0	NA
13C2-PFTeDA	NA	SIS[1]	715.2 / 670.0	NA
13C3-PFBS	NA	SIS[1]	302.1 / 79.9	NA
13C3-PFHxS	NA	SIS[1]	402.1 / 79.9	NA
13C8-PFOS	NA	SIS[1]	507.1 / 79.9	NA
13C2-4:2FTS	NA	SIS[1]	329.1 / 80.9	NA
13C2-6:2FTS	NA	SIS[1]	429.1 / 80.9	NA
13C2-8:2FTS	NA	SIS[1]	529.1 / 80.9	NA
13C8-PFOSA	NA	SIS[1]	506.1 / 77.8	NA
d3-MeFOSA	NA	SIS[1]	515.0 / 219.0	NA
d5-EtFOSA	NA	SIS[1]	531.1 / 219.0	NA
d3-MeFOSAA	NA	SIS[1]	573.2 / 419.0	NA
d5-EtFOSAA	NA	SIS[1]	589.2 / 419.0	NA
d7-MeFOSE	NA	SIS[1]	623.2 / 58.9	NA

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
d9-EtFOSE	NA	SIS[1]	639.2 / 58.9	NA
13C3-HFPO-DA	NA	SIS[1]	286.9 / 168.9	NA
13C3-PFBA	NA	IS[2]	216.0 / 172.0	NA
13C2-PFHxA	NA	IS[2]	315.1 / 270.0	NA
13C4-PFOA	NA	IS[2]	417.1 / 172.0	NA
13C5-PFNA	NA	IS[2]	468.0 / 423.0	NA
13C2-PFDA	NA	IS[2]	515.1 / 470.1	NA
18O2-PFHxS	NA	IS[2]	403.0 / 103.0	NA
13C4-PFOS	NA	IS[2]	502.8 / 79.9	NA
$^{13}C_4$-PFOS	NA	IS[2]	503.0 / 99.0	NA

[1] – extracted internal standard (surrogate)
[2] – non-extracted internal standard

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BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

SOP Numbers (see workplan for modifications)

Extract/AnalyzeSOP No. 5-381

This Batch Contains The Following Samples:		
DQ752PB-FS	C2687MS-FS	C2692-FS
DQ753LCS-FS	C2687MSD-FS	C2693-FS
DQ754LCS-FS	C2688-FS	C2694-FS
C2685-FS	C2689-FS	C2695-FS
C2686-FS	C2690-FS	C2696-FS
C2687-FS	C2691-FS	

Laboratory Preparation Records

COMPLETE AND VALIDATED

Prep Task Leader: Paul Fuhry

Approved By:	Date	Initials
Kevin Bailey	03/25/2024	KB

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BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Sample ID	Description
DQ752PB-FS	Procedural Blank
DQ753LCS-FS	Laboratory Control Sample
DQ754LCS-FS	Laboratory Control Sample
C2685-FS	WGNA-FB-20240319
C2686-FS	WGNA-SW-36A-20240319
C2687-FS	WGNA-SW-36-20240319
C2687MS-FS	Matrix Spike of WGNA-SW-36-20240319
C2687MSD-FS	Matrix Spike Duplicate of WGNA-SW-36-20240319
C2688-FS	WGNA-SW-34A-20240319
C2689-FS	WGNA-SW-42-20240319
C2690-FS	WGNA-SW-41-20240319
C2691-FS	WGNA-SW-39A-20240319
C2692-FS	WGNA-SW-33-20240319
C2693-FS	WGNA-SW-30-20240319
C2694-FS	WGNA-SW-20-20240319
C2695-FS	WGNA-SW-19-20240319
C2696-FS	WGNA-SW-DUP-02-20240319

Samples Assigned By: Matt Schumitz

Date : March 21, 2024
Due Date : April 10, 2024

Comments:

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BATTELLE - NORWELL OPERATIONS
SAMPLE CUSTODY LOG

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Requested On/By:	03/21/2024 PF	**Purpose:**	Sample Preparation
Relinquished On/By:	03/21/2024 CB	**Last Activity:**	Transfer

Accepted On/By:	03/21/2024 PF	**Returned On/To:**	
Stored In Facility:	Sample Preparation	**Returned To Facility:**	
Stored Until			
Stored Comment:	NA	**Returned Comment:**	NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	C2685	1	C	Consumed	NA
2	C2686	1	C	Consumed	NA
3	C2687	1	C	Consumed	NA
4	C2688	1	C	Consumed	NA
5	C2689	1	C	Consumed	NA
6	C2690	1	C	Consumed	NA
7	C2691	1	C	Consumed	NA
8	C2692	1	C	Consumed	NA
9	C2693	1	C	Consumed	NA
10	C2694	1	C	Consumed	NA
11	C2695	1	C	Consumed	NA
12	C2696	1	C	Consumed	NA

Total Samples 12 * "C" = Consumed Container

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BATTELLE - NORWELL OPERATIONS
SAMPLE VOLUME FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

Sample ID	Bottles	*	Calc. By Wt.	pH Check	Initial Wt. (g)	Empty Wt. (g)	Volume (mL)	Vol. Recorded
DQ752PB-FS	NA	--	Yes	Valid	548.67	41.75	507.0	NA
DQ753LCS-FS	NA	--	Yes	Valid	545.88	41.39	504.0	NA
DQ754LCS-FS	NA	--	Yes	Valid	544.94	41.87	503.0	NA
C2685-FS	1	C	Yes	Valid	536.33	43.01	493.0	NA
C2686-FS	1	C	Yes	Valid	515.16	42.96	472.0	NA
C2687-FS	1	C	Yes	Valid	575.61	43.8	532.0	NA
C2687MS-FS	2	C	Yes	Valid	574.18	43.66	531.0	NA
C2687MSD-FS	3	C	Yes	Valid	570.01	43.72	526.0	NA
C2688-FS	1	C	Yes	Valid	549.76	43.5	506.0	NA
C2689-FS	1	C	Yes	Valid	550.86	43.63	507.0	NA
C2690-FS	1	C	Yes	Valid	521.0	42.88	478.0	NA
C2691-FS	1	C	Yes	Valid	581.29	43.11	538.0	NA
C2692-FS	1	C	Yes	Valid	564.89	43.31	522.0	NA
C2693-FS	1	C	Yes	Valid	555.06	43.9	511.0	NA
C2694-FS	1	C	Yes	Valid	573.93	43.53	530.0	NA
C2695-FS	1	C	Yes	Valid	572.49	43.6	529.0	NA
C2696-FS	1	C	Yes	Valid	541.96	43.78	498.0	NA

Balance Information:

Initial Wt. Balance:	Initial Wt Date/Initials:	Empty Wt. Balance:	Empty Wt Date/Initials:
BAL-009	03/21/24 PF	BAL-009	03/22/24 PF

Calc. by Wt. - if yes, volume is calculated as the total weight of the bottle - empty weight, assuming a Density of 1, value rounded to nearest whole number. If yes, Vol. Recorded Date/Initials will be "NA"

* - "C" = Sample is Consumed

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DQ752PB-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
DQ753LCS-FS	MC88	LCS/MS	1	100	03/21/24 PF	JS	NA
DQ753LCS-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
DQ754LCS-FS	MC47	LCS/MS	1	80	03/21/24 PF	JS	NA
DQ754LCS-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2685-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2686-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2687-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2687MS-FS	MC88	LCS/MS	1	100	03/21/24 PF	JS	NA
C2687MS-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2687MSD-FS	MC88	LCS/MS	1	100	03/21/24 PF	JS	NA
C2687MSD-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2688-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2689-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2690-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2691-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2692-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2693-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2694-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2695-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA
C2696-FS	MD09	SIS	1	50	03/21/24 PF	JS	NA

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MC47	Pipette	B814659662
MC88	Pipette	B814659662
MD09	Pipette	B814659662

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment
DQ752PB-FS	03/21/24 PF	NA	NA	NA
DQ753LCS-FS	03/21/24 PF	NA	NA	NA
DQ754LCS-FS	03/21/24 PF	NA	NA	NA
C2685-FS	03/21/24 PF	NA	NA	NA
C2686-FS	03/21/24 PF	NA	NA	NA
C2687-FS	03/21/24 PF	NA	NA	NA
C2687MS-FS	03/21/24 PF	NA	NA	NA
C2687MSD-FS	03/21/24 PF	NA	NA	NA
C2688-FS	03/21/24 PF	NA	NA	NA
C2689-FS	03/21/24 PF	NA	NA	NA
C2690-FS	03/21/24 PF	NA	NA	NA
C2691-FS	03/21/24 PF	NA	NA	NA
C2692-FS	03/21/24 PF	NA	NA	NA
C2693-FS	03/21/24 PF	NA	NA	NA
C2694-FS	03/21/24 PF	NA	NA	NA
C2695-FS	03/21/24 PF	NA	NA	NA
C2696-FS	03/21/24 PF	NA	NA	NA

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
Carbon Columns (Strata PFAS Wax/GCB)	230825-01	08/25/28	M05773/1260	NA	
Silanized Glass Wool	231003-03	10/03/28	171936	NA	
1% NH3OH in Methanol	RP-240321-2	03/21/24	232699	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
1% NH3OH in Methanol	RP-240321-2	03/21/24	A0452523	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
0.3 M Formic Acid	RP-240321-3	03/21/24	A0445104	377 uL of formic acid brought up to 100 mL with water	
1:1 0.1 M Formic Acid	RP-240321-4	03/21/24	232699	1132 uL of formic acid brought up to 100 mL with water, then brought up to 200 mL with MeOH	
1:1 0.1 M Formic Acid	RP-240321-4	03/21/24	A0445104	1132 uL of formic acid brought up to 100 mL with water, then brought up to 200 mL with MeOH	

Solvents/Reagents:

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DQ752PB-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
DQ753LCS-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
DQ754LCS-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2685-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2686-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2687-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2687MS-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2687MSD-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2688-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2689-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2690-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2691-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2692-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2693-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2694-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2695-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH
C2696-FS(0)	4950	50	MD10	50	1	5000	1.000	03/21/24 NAK	KH

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MD10	Pipette	C202360925

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DQ752PB-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
DQ753LCS-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
DQ754LCS-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2685-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2686-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2687-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2687MS-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2687MSD-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2688-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2689-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2690-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2691-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2692-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2693-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

BATTELLE
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BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
C2694-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2695-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF
C2696-FS	0	--	3/21/2024 10:55:00 AM	NA		NA	NA	1.000	1.000	03/21/24 PF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

Purpose:	LC-MS/MS TRANSFER	**Last Activity:**	Prep->Inst
Relinquished On/By:	Mar 21 2024 4:14PM PF	**Received On/By:**	Mar 21 2024 4:14PM KB
Relinquished From:	Sample Preparation: NA	**Received Location:**	LC Laboratory #1: NA
Relinquish Comment:	NA	**Received Comment:**	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	DQ752PB-FS(0)	5000	1	Intact	NA
2	DQ753LCS-FS(0)	5000	1	Intact	NA
3	DQ754LCS-FS(0)	5000	1	Intact	NA
4	C2685-FS(0)	5000	1	Intact	NA
5	C2686-FS(0)	5000	1	Intact	NA
6	C2687-FS(0)	5000	1	Intact	NA
7	C2687MS-FS(0)	5000	1	Intact	NA
8	C2687MSD-FS(0)	5000	1	Intact	NA
9	C2688-FS(0)	5000	1	Intact	NA
10	C2689-FS(0)	5000	1	Intact	NA
11	C2690-FS(0)	5000	1	Intact	NA
12	C2691-FS(0)	5000	1	Intact	NA
13	C2692-FS(0)	5000	1	Intact	NA
14	C2693-FS(0)	5000	1	Intact	NA
15	C2694-FS(0)	5000	1	Intact	NA
16	C2695-FS(0)	5000	1	Intact	NA
17	C2696-FS(0)	5000	1	Intact	NA

Total Extracts: 17

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It can be done

BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID:	Comment:	Date/Initials:
DQ752PB-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 1:59 PM	03/22/24 PF
DQ753LCS-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 1:21 PM	03/22/24 PF
DQ754LCS-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 1:58 PM	03/22/24 PF
C2685-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 2:10 PM	03/22/24 PF
C2686-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 1:36 PM	03/22/24 PF
C2686-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2687-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 2:48 PM	03/22/24 PF
C2687-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2687MS-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 2:54 PM	03/22/24 PF
C2687MS-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2687MSD-FS	Extraction started at 10:55 AM, on manifold 2, and ended at 2:50 PM	03/22/24 PF
C2687MSD-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2688-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 1:42 PM	03/22/24 PF
C2688-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2689-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 1:51 PM	03/22/24 PF
C2689-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2690-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 1:40 PM	03/22/24 PF
C2690-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2691-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 2:01 PM	03/22/24 PF

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BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0207
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID:	Comment:	Date/Initials:
C2691-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2692-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 2:25 PM	03/22/24 PF
C2692-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2693-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 2:14 PM	03/22/24 PF
C2693-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2694-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 2:14 PM	03/22/24 PF
C2694-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2695-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 1:58 PM	03/22/24 PF
C2695-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF
C2696-FS	Extraction started at 10:55 AM, on manifold 7, and ended at 2:14 PM	03/22/24 PF
C2696-FS	Sample appeared mostly clear in color, but had a slight brown tint. There were no visible particulates, but the wax portion of the column was stained brown. The eluent was a yellow green color.	03/22/24 PF

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BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.000001

24-0207

CTO-WE04 Willow Grove WR-125

QC, SW

Entered By:	**On:**

Task Leader Approval:	**On:**
SupervisorApproval:	**On:**
PM Approval:	**On:**

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 25/03/2024 2:49:26 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
3	MC59	L1	3/22/2024 8:11:43 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
4	MC60	L2	3/22/2024 8:34:31 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
5	MC61	L3	3/22/2024 8:57:20 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
6	MC62	L4	3/22/2024 9:20:11 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
7	MC63	L5	3/22/2024 9:42:58 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
8	MC64	L6	3/22/2024 10:05:45 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
9	MC65	L7	3/22/2024 10:28:33 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
10	MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
11	MC43 ICC	ICC	3/22/2024 11:14:10 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
12	MC59 ISC	ISC	3/22/2024 11:36:56 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
13	MC62 CV	CV	3/22/2024 11:59:43 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
14	MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
15	MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
16	DQ752PB-FS(0)	Procedural Blank	3/23/2024 1:08:06 AM	D:\SCIEX OS Data\PFAS\Acquisition	AG_03222024_1633.wiff

BATTELLE

Sequence Report

Created with Analyst Reporter
Printed: 25/03/2024 2:49:26 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
				Methods\1633_MS.msm	
17	DQ753LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:30:53 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
18	DQ754LCS-FS(0)	Laboratory Control Sample	3/23/2024 1:53:44 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
19	C2685-FS(0)	WGNA-FB-20240319	3/23/2024 2:16:32 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
20	C2686-FS(0)	WGNA-SW-36A-20240319	3/23/2024 2:39:20 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
21	C2687-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:02:09 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
22	C2687MS-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:24:59 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
23	C2687MSD-FS(0)	WGNA-SW-36-20240319	3/23/2024 3:47:47 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
24	C2688-FS(0)	WGNA-SW-34A-20240319	3/23/2024 4:10:33 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
25	4%		3/23/2024 4:33:24 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
26	MC62 CV	CV	3/23/2024 4:56:13 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
27	MB88 IB	Instrument Blank	3/23/2024 5:19:01 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
28	C2689-FS(0)	WGNA-SW-42-20240319	3/23/2024 5:41:50 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
29	C2690-FS(0)	WGNA-SW-41-20240319	3/23/2024 6:04:37 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff

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Sequence Report

Created with Analyst Reporter
Printed: 25/03/2024 2:49:26 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
30	C2691-FS(0)	WGNA-SW-39A-20240319	3/23/2024 6:27:26 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
31	C2692-FS(0)	WGNA-SW-33-20240319	3/23/2024 6:50:15 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
32	C2693-FS(0)	WGNA-SW-30-20240319	3/23/2024 7:13:07 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
33	C2694-FS(0)	WGNA-SW-20-20240319	3/23/2024 7:35:57 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
34	C2695-FS(0)	WGNA-SW-19-20240319	3/23/2024 7:58:43 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
35	C2696-FS(0)	WGNA-SW-DUP-02-20240319	3/23/2024 8:21:31 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
36	4%		3/23/2024 8:44:21 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
37	MC63 CV	CV	3/23/2024 9:07:09 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff
38	MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AG_03222024_1633.wiff

Analyte Name	PFBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	212.8 / 168.9	**Result Table**	24-0207A
Internal Standard	13C4-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.11796 x (std. dev. = 0.05412) (weighting: None) RSD: 4.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1874	0.801	0.851	106.2
4	MC60	L2	True	1.1396	1.999	2.038	101.9
5	MC61	L3	True	1.1278	5.004	5.048	100.9
6	MC62	L4	True	1.1134	9.993	9.952	99.6
7	MC63	L5	True	1.0367	19.990	18.536	92.7
8	MC64	L6	True	1.0583	49.997	47.328	94.7
9	MC65	L7	True	1.1627	250.000	260.001	104.0

Analyte Name	PFPeA	**Data File**	AG_03222024_1633.wiff
MRM Transition	263.0 / 219.0	**Result Table**	24-0207A
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.46900 x (std. dev. = 0.06316) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4918	0.400	0.406	101.6
4	MC60	L2	True	1.5380	0.999	1.046	104.7
5	MC61	L3	True	1.4897	2.502	2.537	101.4
6	MC62	L4	True	1.4752	4.996	5.017	100.4
7	MC63	L5	True	1.3512	9.995	9.194	92.0
8	MC64	L6	True	1.4221	24.998	24.199	96.8
9	MC65	L7	True	1.5150	125.000	128.916	103.1

Analyte Name	PFHxA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	313.0 / 269.0	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.00927 x (std. dev. = 0.04628) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0724	0.200	0.213	106.3
4	MC60	L2	True	1.0529	0.500	0.522	104.3
5	MC61	L3	True	1.0470	1.251	1.298	103.7
6	MC62	L4	True	0.9617	2.498	2.380	95.3
7	MC63	L5	True	0.9750	4.998	4.828	96.6
8	MC64	L6	True	0.9696	12.499	12.007	96.1
9	MC65	L7	True	0.9864	62.500	61.082	97.7

Analyte Name	PFHxA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	313.0 / 118.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06412 x (std. dev. = 0.00862) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0832	0.200	0.260	129.8
4	MC60	L2	True	0.0614	0.500	0.479	95.8
5	MC61	L3	True	0.0637	1.251	1.243	99.3
6	MC62	L4	True	0.0628	2.498	2.447	98.0
7	MC63	L5	True	0.0592	4.998	4.615	92.3
8	MC64	L6	True	0.0600	12.499	11.687	93.5
9	MC65	L7	True	0.0586	62.500	57.088	91.3

Analyte Name	PFHpA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	363.1 / 319.0	**Result Table**	24-0207A
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99570 x (std. dev. = 0.04235) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0603	0.200	0.213	106.5
4	MC60	L2	True	1.0055	0.500	0.505	101.0
5	MC61	L3	True	0.9983	1.251	1.254	100.3
6	MC62	L4	True	0.9657	2.498	2.423	97.0
7	MC63	L5	True	0.9335	4.998	4.686	93.8
8	MC64	L6	True	0.9751	12.499	12.240	97.9
9	MC65	L7	True	1.0316	62.500	64.751	103.6

Analyte Name	PFHpA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	363.1 / 169.0	**Result Table**	24-0207A
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.02120 x (std. dev. = 0.00237) (weighting: None) RSD: 11.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0202	0.200	0.191	95.5
4	MC60	L2	True	0.0188	0.500	0.442	88.5
5	MC61	L3	True	0.0250	1.251	1.478	118.1
6	MC62	L4	True	0.0222	2.498	2.617	104.8
7	MC63	L5	True	0.0188	4.998	4.433	88.7
8	MC64	L6	True	0.0201	12.499	11.868	95.0
9	MC65	L7	True	0.0232	62.500	68.444	109.5

Analyte Name	PFOA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	413.0 / 369.0	**Result Table**	24-0207A
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.88761 x (std. dev. = 0.07467) (weighting: None) RSD: 8.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0230	0.200	0.231	115.3
4	MC60	L2	True	0.9025	0.500	0.508	101.7
5	MC61	L3	True	0.8975	1.253	1.267	101.1
6	MC62	L4	True	0.8517	2.501	2.400	96.0
7	MC63	L5	True	0.7892	5.003	4.448	88.9
8	MC64	L6	True	0.8330	12.514	11.743	93.8
9	MC65	L7	True	0.9165	62.575	64.613	103.3

Analyte Name	PFOA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	413.0 / 169.0	**Result Table**	24-0207A
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09827 x (std. dev. = 0.00500) (weighting: None) RSD: 5.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0922	0.200	0.188	93.8
4	MC60	L2	True	0.1018	0.500	0.518	103.6
5	MC61	L3	True	0.0977	1.253	1.245	99.4
6	MC62	L4	True	0.0997	2.501	2.538	101.5
7	MC63	L5	True	0.0931	5.003	4.742	94.8
8	MC64	L6	True	0.0968	12.514	12.325	98.5
9	MC65	L7	True	0.1066	62.575	67.870	108.5

Analyte Name	PFNA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	463.0 / 419.0	**Result Table**	24-0207A
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.54267 x (std. dev. = 0.03046) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5622	0.200	0.207	103.6
4	MC60	L2	True	0.5786	0.499	0.532	106.6
5	MC61	L3	True	0.5519	1.250	1.271	101.7
6	MC62	L4	True	0.5111	2.496	2.351	94.2
7	MC63	L5	True	0.4913	4.994	4.521	90.5
8	MC64	L6	True	0.5540	12.489	12.750	102.1
9	MC65	L7	True	0.5495	62.450	63.240	101.3

Analyte Name	PFNA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	463.0 / 219.0	**Result Table**	24-0207A
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29911 x (std. dev. = 0.02842) (weighting: None) RSD: 9.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2934	0.200	0.196	98.1
4	MC60	L2	True	0.3511	0.499	0.586	117.4
5	MC61	L3	True	0.3032	1.250	1.267	101.4
6	MC62	L4	True	0.2658	2.496	2.218	88.9
7	MC63	L5	True	0.2698	4.994	4.505	90.2
8	MC64	L6	True	0.3004	12.489	12.543	100.4
9	MC65	L7	True	0.3100	62.450	64.732	103.7

Analyte Name	PFDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	512.9 / 469.0	**Result Table**	24-0207A
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.69089 x (std. dev. = 0.04569) (weighting: None) RSD: 6.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7655	0.200	0.222	110.8
4	MC60	L2	True	0.6722	0.500	0.486	97.3
5	MC61	L3	True	0.7342	1.251	1.329	106.3
6	MC62	L4	True	0.6936	2.498	2.508	100.4
7	MC63	L5	True	0.6299	4.998	4.557	91.2
8	MC64	L6	True	0.6612	12.499	11.961	95.7
9	MC65	L7	True	0.6797	62.500	61.486	98.4

Analyte Name	PFDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	512.9 / 219.0	**Result Table**	24-0207A
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.03620 x (std. dev. = 0.00485) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0282	0.200	0.156	77.8
4	MC60	L2	True	0.0376	0.500	0.520	103.9
5	MC61	L3	True	0.0444	1.251	1.535	122.7
6	MC62	L4	True	0.0336	2.498	2.319	92.8
7	MC63	L5	True	0.0364	4.998	5.022	100.5
8	MC64	L6	True	0.0363	12.499	12.530	100.3
9	MC65	L7	True	0.0369	62.500	63.757	102.0

Analyte Name	PFUnA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	563.1 / 519.0	**Result Table**	24-0207A
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.24542 x (std. dev. = 0.07084) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2627	0.200	0.203	101.4
4	MC60	L2	True	1.2830	0.500	0.515	103.0
5	MC61	L3	True	1.3632	1.251	1.369	109.5
6	MC62	L4	True	1.2573	2.498	2.522	101.0
7	MC63	L5	True	1.2249	4.998	4.916	98.4
8	MC64	L6	True	1.1799	12.499	11.842	94.7
9	MC65	L7	True	1.1470	62.500	57.561	92.1

Analyte Name	PFUnA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	563.1 / 269.1	**Result Table**	24-0207A
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.05997 x (std. dev. = 0.00727) (weighting: None) RSD: 12.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0739	0.200	0.246	123.2
4	MC60	L2	True	0.0518	0.500	0.432	86.3
5	MC61	L3	True	0.0637	1.251	1.329	106.2
6	MC62	L4	True	0.0610	2.498	2.541	101.7
7	MC63	L5	True	0.0577	4.998	4.810	96.2
8	MC64	L6	True	0.0569	12.499	11.868	95.0
9	MC65	L7	True	0.0548	62.500	57.084	91.3

Analyte Name	PFDoA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	613.1 / 569.0	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.43132 x (std. dev. = 0.02987) (weighting: None) RSD: 6.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4465	0.200	0.207	103.5
4	MC60	L2	True	0.4702	0.500	0.545	109.0
5	MC61	L3	True	0.4315	1.251	1.252	100.1
6	MC62	L4	True	0.4583	2.498	2.654	106.3
7	MC63	L5	True	0.4094	4.998	4.744	94.9
8	MC64	L6	True	0.3837	12.499	11.118	89.0
9	MC65	L7	True	0.4197	62.500	60.813	97.3

Analyte Name	PFDoA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	613.1 / 319.0	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.12916 x (std. dev. = 0.00871) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1330	0.200	0.206	103.0
4	MC60	L2	True	0.1406	0.500	0.544	108.9
5	MC61	L3	True	0.1268	1.251	1.228	98.2
6	MC62	L4	True	0.1389	2.498	2.687	107.6
7	MC63	L5	True	0.1251	4.998	4.840	96.8
8	MC64	L6	True	0.1170	12.499	11.322	90.6
9	MC65	L7	True	0.1226	62.500	59.342	95.0

Analyte Name	PFTrDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	663.0 / 619.0	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.12785 x (std. dev. = 0.12475) (weighting: None) RSD: 11.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2882	0.200	0.228	114.2
4	MC60	L2	True	1.2510	0.500	0.555	110.9
5	MC61	L3	True	1.1610	1.251	1.288	102.9
6	MC62	L4	True	1.1831	2.498	2.620	104.9
7	MC63	L5	True	1.0362	4.998	4.592	91.9
8	MC64	L6	True	1.0061	12.499	11.150	89.2
9	MC65	L7	True	0.9693	62.500	53.713	85.9

Analyte Name	PFTrDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	663.0 / 168.9	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06798 x (std. dev. = 0.01321) (weighting: None) RSD: 19.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0945	0.200	0.278	139.0
4	MC60	L2	True	0.0589	0.500	0.434	86.7
5	MC61	L3	True	0.0757	1.251	1.393	111.4
6	MC62	L4	True	0.0673	2.498	2.475	99.1
7	MC63	L5	True	0.0607	4.998	4.466	89.4
8	MC64	L6	True	0.0599	12.499	11.014	88.1
9	MC65	L7	True	0.0587	62.500	53.999	86.4

Analyte Name	PFTeDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	713.0 / 669.0	**Result Table**	24-0207A
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.64200 x (std. dev. = 0.09478) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.7955	0.200	0.219	109.4
4	MC60	L2	True	1.6983	0.500	0.517	103.4
5	MC61	L3	True	1.5518	1.251	1.182	94.5
6	MC62	L4	True	1.6994	2.498	2.585	103.5
7	MC63	L5	True	1.6256	4.998	4.948	99.0
8	MC64	L6	True	1.5974	12.499	12.160	97.3
9	MC65	L7	True	1.5260	62.500	58.083	92.9

Analyte Name	PFTeDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	713.0 / 168.9	**Result Table**	24-0207A
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09390 x (std. dev. = 0.01487) (weighting: None) RSD: 15.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1254	0.200	0.267	133.6
4	MC60	L2	True	0.0859	0.500	0.458	91.5
5	MC61	L3	True	0.0837	1.251	1.114	89.1
6	MC62	L4	True	0.1000	2.498	2.661	106.5
7	MC63	L5	True	0.0870	4.998	4.630	92.6
8	MC64	L6	True	0.0887	12.499	11.807	94.5
9	MC65	L7	True	0.0866	62.500	57.647	92.2

Analyte Name	PFBS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	298.7 / 79.9	**Result Table**	24-0207A
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.46804 x (std. dev. = 0.01887) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4808	0.178	0.183	102.7
4	MC60	L2	True	0.4753	0.444	0.451	101.6
5	MC61	L3	True	0.4507	1.111	1.070	96.3
6	MC62	L4	True	0.4584	2.218	2.172	97.9
7	MC63	L5	True	0.4396	4.438	4.169	93.9
8	MC64	L6	True	0.4789	11.099	11.357	102.3
9	MC65	L7	True	0.4926	55.500	58.407	105.2

Analyte Name	PFBS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	298.9 / 98.8	**Result Table**	24-0207A
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20778 x (std. dev. = 0.00766) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2164	0.178	0.185	104.1
4	MC60	L2	True	0.2087	0.444	0.446	100.5
5	MC61	L3	True	0.2130	1.111	1.139	102.5
6	MC62	L4	True	0.2106	2.218	2.248	101.4
7	MC63	L5	True	0.1963	4.438	4.193	94.5
8	MC64	L6	True	0.1979	11.099	10.572	95.3
9	MC65	L7	True	0.2116	55.500	56.508	101.8

Analyte Name	PFPeS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	349.1 / 79.9	**Result Table**	24-0207A
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.52132 x (std. dev. = 0.03470) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5683	0.188	0.205	109.0
4	MC60	L2	True	0.5351	0.470	0.482	102.7
5	MC61	L3	True	0.5535	1.176	1.249	106.2
6	MC62	L4	True	0.5236	2.348	2.358	100.4
7	MC63	L5	True	0.4937	4.698	4.449	94.7
8	MC64	L6	True	0.5066	11.749	11.418	97.2
9	MC65	L7	True	0.4684	58.750	52.782	89.8

Analyte Name	PFPeS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	349.1 / 98.9	**Result Table**	24-0207A
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22143 x (std. dev. = 0.02437) (weighting: None) RSD: 11.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2437	0.188	0.207	110.1
4	MC60	L2	True	0.2589	0.470	0.550	116.9
5	MC61	L3	True	0.2182	1.176	1.159	98.6
6	MC62	L4	True	0.2274	2.348	2.411	102.7
7	MC63	L5	True	0.2080	4.698	4.413	93.9
8	MC64	L6	True	0.2077	11.749	11.019	93.8
9	MC65	L7	True	0.1861	58.750	49.380	84.1

Analyte Name	PFHxS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	398.7 / 79.9	**Result Table**	24-0207A
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84682 x (std. dev. = 0.06814) (weighting: None) RSD: 8.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9515	0.183	0.206	112.4
4	MC60	L2	True	0.8419	0.456	0.453	99.4
5	MC61	L3	True	0.8119	1.141	1.094	95.9
6	MC62	L4	True	0.8365	2.279	2.251	98.8
7	MC63	L5	True	0.7554	4.560	4.068	89.2
8	MC64	L6	True	0.8083	11.404	10.885	95.5
9	MC65	L7	True	0.9223	57.025	62.110	108.9

Analyte Name	PFHxS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	398.7 / 98.9	**Result Table**	24-0207A
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29389 x (std. dev. = 0.03150) (weighting: None) RSD: 10.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3517	0.183	0.219	119.7
4	MC60	L2	True	0.3079	0.456	0.478	104.8
5	MC61	L3	True	0.2877	1.141	1.117	97.9
6	MC62	L4	True	0.2842	2.279	2.204	96.7
7	MC63	L5	True	0.2549	4.560	3.955	86.7
8	MC64	L6	True	0.2679	11.404	10.395	91.2
9	MC65	L7	True	0.3030	57.025	58.797	103.1

Analyte Name	PFHpS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	449.0 / 79.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.37159 x (std. dev. = 0.08699) (weighting: None) RSD: 6.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4044	0.191	0.196	102.4
4	MC60	L2	True	1.4992	0.476	0.520	109.3
5	MC61	L3	True	1.3582	1.191	1.179	99.0
6	MC62	L4	True	1.4303	2.378	2.480	104.3
7	MC63	L5	True	1.3747	4.758	4.769	100.2
8	MC64	L6	True	1.3035	11.899	11.308	95.0
9	MC65	L7	True	1.2310	59.500	53.399	89.8

Analyte Name	PFHpS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	449.0 / 98.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.41050 x (std. dev. = 0.03321) (weighting: None) RSD: 8.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4385	0.191	0.204	106.8
4	MC60	L2	True	0.4606	0.476	0.534	112.2
5	MC61	L3	True	0.4105	1.191	1.191	100.0
6	MC62	L4	True	0.4235	2.378	2.453	103.2
7	MC63	L5	True	0.3870	4.758	4.486	94.3
8	MC64	L6	True	0.3894	11.899	11.288	94.9
9	MC65	L7	True	0.3640	59.500	52.766	88.7

Analyte Name	PFOS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.9 / 79.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.30130 x (std. dev. = 0.09609) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4370	0.186	0.205	110.4
4	MC60	L2	True	1.4054	0.464	0.501	108.0
5	MC61	L3	True	1.3015	1.161	1.161	100.0
6	MC62	L4	True	1.2321	2.318	2.195	94.7
7	MC63	L5	True	1.1839	4.638	4.219	91.0
8	MC64	L6	True	1.2192	11.599	10.867	93.7
9	MC65	L7	True	1.3300	58.000	59.278	102.2

Analyte Name	PFOS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.9 / 98.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26749 x (std. dev. = 0.01866) (weighting: None) RSD: 7.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2978	0.186	0.207	111.3
4	MC60	L2	True	0.2867	0.464	0.497	107.2
5	MC61	L3	True	0.2608	1.161	1.132	97.5
6	MC62	L4	True	0.2425	2.318	2.101	90.7
7	MC63	L5	True	0.2587	4.638	4.486	96.7
8	MC64	L6	True	0.2656	11.599	11.517	99.3
9	MC65	L7	True	0.2603	58.000	56.441	97.3

Analyte Name	PFNS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	548.8 / 79.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.65053 x (std. dev. = 0.04336) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.6826	0.192	0.201	104.9
4	MC60	L2	True	0.7293	0.480	0.538	112.1
5	MC61	L3	True	0.6484	1.201	1.197	99.7
6	MC62	L4	True	0.6206	2.398	2.288	95.4
7	MC63	L5	True	0.6417	4.798	4.733	98.7
8	MC64	L6	True	0.5979	11.999	11.028	91.9
9	MC65	L7	True	0.6332	60.000	58.399	97.3

Analyte Name	PFNS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	548.8 / 98.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.12967 x (std. dev. = 0.00726) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1198	0.192	0.177	92.4
4	MC60	L2	True	0.1258	0.480	0.466	97.0
5	MC61	L3	True	0.1382	1.201	1.280	106.6
6	MC62	L4	True	0.1345	2.398	2.488	103.8
7	MC63	L5	True	0.1351	4.798	4.998	104.2
8	MC64	L6	True	0.1214	11.999	11.235	93.6
9	MC65	L7	True	0.1329	60.000	61.493	102.5

Analyte Name	PFDS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	599.0 / 79.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.94080 x (std. dev. = 0.05232) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9836	0.193	0.202	104.6
4	MC60	L2	True	1.0195	0.482	0.522	108.4
5	MC61	L3	True	0.9536	1.206	1.222	101.4
6	MC62	L4	True	0.9232	2.408	2.363	98.1
7	MC63	L5	True	0.9445	4.818	4.837	100.4
8	MC64	L6	True	0.8988	12.049	11.512	95.5
9	MC65	L7	True	0.8624	60.250	55.226	91.7

Analyte Name	PFDS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	599.0 / 98.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26244 x (std. dev. = 0.02001) (weighting: None) RSD: 7.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2945	0.193	0.217	112.2
4	MC60	L2	True	0.2754	0.482	0.506	105.0
5	MC61	L3	True	0.2721	1.206	1.250	103.7
6	MC62	L4	True	0.2515	2.408	2.308	95.8
7	MC63	L5	True	0.2583	4.818	4.742	98.4
8	MC64	L6	True	0.2523	12.049	11.584	96.1
9	MC65	L7	True	0.2329	60.250	53.474	88.8

Analyte Name	PFDoS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	699.1 / 79.9	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.02188 x (std. dev. = 0.09000) (weighting: None) RSD: 8.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1392	0.194	0.216	111.5
4	MC60	L2	True	1.0432	0.484	0.494	102.1
5	MC61	L3	True	1.0034	1.211	1.189	98.2
6	MC62	L4	True	1.1299	2.418	2.674	110.6
7	MC63	L5	True	0.9267	4.838	4.387	90.7
8	MC64	L6	True	0.9082	12.099	10.753	88.9
9	MC65	L7	True	1.0025	60.500	59.352	98.1

Analyte Name	PFDoS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	699.1 / 98.9	**Result Table**	24-0207A
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.30658 x (std. dev. = 0.02619) (weighting: None) RSD: 8.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3309	0.194	0.209	107.9
4	MC60	L2	True	0.3203	0.484	0.506	104.5
5	MC61	L3	True	0.3021	1.211	1.193	98.6
6	MC62	L4	True	0.3454	2.418	2.724	112.7
7	MC63	L5	True	0.2781	4.838	4.389	90.7
8	MC64	L6	True	0.2809	12.099	11.087	91.6
9	MC65	L7	True	0.2882	60.500	56.870	94.0

Analyte Name	4:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	327.1 / 307.0	**Result Table**	24-0207A
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.36048 x (std. dev. = 0.02628) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3783	0.750	0.787	105.0
4	MC60	L2	True	0.3463	1.873	1.799	96.1
5	MC61	L3	True	0.3793	4.689	4.934	105.2
6	MC62	L4	True	0.3955	9.363	10.273	109.7
7	MC63	L5	True	0.3390	18.731	17.613	94.0
8	MC64	L6	True	0.3640	46.847	47.307	101.0
9	MC65	L7	True	0.3209	234.250	208.537	89.0

Analyte Name	4:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	327.1 / 80.9	**Result Table**	24-0207A
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.06554 x (std. dev. = 0.06478) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1209	0.750	0.789	105.2
4	MC60	L2	True	1.0267	1.873	1.805	96.4
5	MC61	L3	True	1.0928	4.689	4.809	102.6
6	MC62	L4	True	1.1296	9.363	9.926	106.0
7	MC63	L5	True	1.0556	18.731	18.556	99.1
8	MC64	L6	True	1.0903	46.847	47.934	102.3
9	MC65	L7	True	0.9429	234.250	207.287	88.5

Analyte Name	6:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	427.1 / 407.0	**Result Table**	24-0207A
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.79437 x (std. dev. = 0.18821) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.7830	0.762	0.759	99.6
4	MC60	L2	True	2.9988	1.901	2.040	107.3
5	MC61	L3	True	2.9572	4.759	5.036	105.8
6	MC62	L4	True	2.8891	9.503	9.825	103.4
7	MC63	L5	True	2.6839	19.010	18.258	96.1
8	MC64	L6	True	2.8047	47.547	47.722	100.4
9	MC65	L7	True	2.4439	237.750	207.932	87.5

Analyte Name	6:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	427.1 / 80.9	**Result Table**	24-0207A
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.06253 x (std. dev. = 0.09384) (weighting: None) RSD: 8.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1002	0.762	0.789	103.6
4	MC60	L2	True	1.2350	1.901	2.210	116.2
5	MC61	L3	True	0.9951	4.759	4.457	93.7
6	MC62	L4	True	1.0606	9.503	9.486	99.8
7	MC63	L5	True	1.0114	19.010	18.095	95.2
8	MC64	L6	True	1.0901	47.547	48.780	102.6
9	MC65	L7	True	0.9453	237.750	211.523	89.0

Analyte Name	8:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	527.1 / 507.0	**Result Table**	24-0207A
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 10.88101 x (std. dev. = 1.15074) (weighting: None) RSD: 10.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	12.4027	0.769	0.877	114.0
4	MC60	L2	True	11.1761	1.919	1.971	102.7
5	MC61	L3	True	10.7942	4.804	4.766	99.2
6	MC62	L4	True	10.6031	9.593	9.348	97.5
7	MC63	L5	True	10.9845	19.190	19.372	101.0
8	MC64	L6	True	11.5588	47.997	50.987	106.2
9	MC65	L7	True	8.6477	240.000	190.740	79.5

Analyte Name	8:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	527.1 / 80.8	**Result Table**	24-0207A
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.14813 x (std. dev. = 0.20158) (weighting: None) RSD: 17.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4264	0.769	0.955	124.2
4	MC60	L2	True	1.4132	1.919	2.362	123.1
5	MC61	L3	True	1.0917	4.804	4.568	95.1
6	MC62	L4	True	1.0269	9.593	8.580	89.5
7	MC63	L5	True	1.0940	19.190	18.284	95.3
8	MC64	L6	True	1.1079	47.997	46.316	96.5
9	MC65	L7	True	0.8768	240.000	183.273	76.4

Analyte Name	PFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.1 / 77.9	**Result Table**	24-0207A
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.23561 x (std. dev. = 0.03826) (weighting: None) RSD: 3.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2499	0.201	0.203	101.2
4	MC60	L2	True	1.2099	0.502	0.492	97.9
5	MC61	L3	True	1.2202	1.256	1.240	98.8
6	MC62	L4	True	1.3124	2.508	2.664	106.2
7	MC63	L5	True	1.1972	5.017	4.861	96.9
8	MC64	L6	True	1.2407	12.549	12.601	100.4
9	MC65	L7	True	1.2190	62.750	61.907	98.7

Analyte Name	PFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.1 / 478.0	**Result Table**	24-0207A
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00759 x (std. dev. = 0.00102) (weighting: None) RSD: 13.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0060	0.201	0.160	79.5
4	MC60	L2	True	0.0075	0.502	0.495	98.5
5	MC61	L3	True	0.0087	1.256	1.437	114.4
6	MC62	L4	True	0.0069	2.508	2.290	91.3
7	MC63	L5	True	0.0071	5.017	4.726	94.2
8	MC64	L6	True	0.0090	12.549	14.839	118.3
9	MC65	L7	True	0.0079	62.750	65.163	103.9

Analyte Name	NMeFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	511.9 / 219.0	**Result Table**	24-0207A
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25006 x (std. dev. = 0.01161) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2629	0.200	0.210	105.1
4	MC60	L2	True	0.2548	0.500	0.509	101.9
5	MC61	L3	True	0.2519	1.252	1.261	100.8
6	MC62	L4	True	0.2643	2.499	2.642	105.7
7	MC63	L5	True	0.2359	5.000	4.716	94.3
8	MC64	L6	True	0.2436	12.504	12.180	97.4
9	MC65	L7	True	0.2370	62.525	59.255	94.8

Analyte Name	NMeFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	511.9 / 169.0	**Result Table**	24-0207A
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23801 x (std. dev. = 0.01770) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2497	0.200	0.210	104.9
4	MC60	L2	True	0.2713	0.500	0.570	114.0
5	MC61	L3	True	0.2407	1.252	1.266	101.1
6	MC62	L4	True	0.2305	2.499	2.421	96.9
7	MC63	L5	True	0.2198	5.000	4.618	92.4
8	MC64	L6	True	0.2272	12.504	11.935	95.5
9	MC65	L7	True	0.2268	62.525	59.583	95.3

Analyte Name	NEtFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	526.0 / 219.0	**Result Table**	24-0207A
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23239 x (std. dev. = 0.00943) (weighting: None) RSD: 4.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2351	0.201	0.203	101.2
4	MC60	L2	True	0.2451	0.501	0.528	105.5
5	MC61	L3	True	0.2329	1.254	1.257	100.2
6	MC62	L4	True	0.2350	2.503	2.531	101.1
7	MC63	L5	True	0.2236	5.007	4.818	96.2
8	MC64	L6	True	0.2167	12.524	11.678	93.3
9	MC65	L7	True	0.2382	62.625	64.201	102.5

Analyte Name	NEtFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	526.0 / 169.0	**Result Table**	24-0207A
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21284 x (std. dev. = 0.01212) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1884	0.201	0.178	88.5
4	MC60	L2	True	0.2215	0.501	0.521	104.1
5	MC61	L3	True	0.2215	1.254	1.305	104.1
6	MC62	L4	True	0.2196	2.503	2.582	103.2
7	MC63	L5	True	0.2105	5.007	4.951	98.9
8	MC64	L6	True	0.2079	12.524	12.236	97.7
9	MC65	L7	True	0.2205	62.625	64.894	103.6

Analyte Name	NMeFOSAA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.1 / 419.0	**Result Table**	24-0207A
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.92437 x (std. dev. = 0.10118) (weighting: None) RSD: 10.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0598	0.200	0.229	114.7
4	MC60	L2	True	1.0621	0.500	0.575	114.9
5	MC61	L3	True	0.8377	1.251	1.134	90.6
6	MC62	L4	True	0.8741	2.498	2.362	94.6
7	MC63	L5	True	0.8398	4.998	4.541	90.9
8	MC64	L6	True	0.8456	12.499	11.434	91.5
9	MC65	L7	True	0.9515	62.500	64.332	102.9

Analyte Name	NMeFOSAA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.1 / 483.0	**Result Table**	24-0207A
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08823 x (std. dev. = 0.01806) (weighting: None) RSD: 20.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1036	0.200	0.235	117.5
4	MC60	L2	True	0.1176	0.500	0.667	133.3
5	MC61	L3	True	0.0651	1.251	0.923	73.8
6	MC62	L4	True	0.0895	2.498	2.535	101.5
7	MC63	L5	True	0.0748	4.998	4.237	84.8
8	MC64	L6	True	0.0767	12.499	10.864	86.9
9	MC65	L7	True	0.0902	62.500	63.911	102.3

Analyte Name	NEtFOSAA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	584.2 / 419.1	**Result Table**	24-0207A
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99713 x (std. dev. = 0.13473) (weighting: None) RSD: 13.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2437	0.200	0.249	124.7
4	MC60	L2	True	1.0617	0.500	0.532	106.5
5	MC61	L3	True	0.9507	1.253	1.195	95.3
6	MC62	L4	True	0.9194	2.501	2.306	92.2
7	MC63	L5	True	0.8285	5.003	4.157	83.1
8	MC64	L6	True	0.9283	12.514	11.650	93.1
9	MC65	L7	True	1.0477	62.575	65.747	105.1

Analyte Name	NEtFOSAA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	584.2 / 526.0	**Result Table**	24-0207A
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.43993 x (std. dev. = 0.13859) (weighting: None) RSD: 9.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.5145	0.200	0.210	105.2
4	MC60	L2	True	1.5754	0.500	0.547	109.4
5	MC61	L3	True	1.2747	1.253	1.109	88.5
6	MC62	L4	True	1.4877	2.501	2.584	103.3
7	MC63	L5	True	1.2201	5.003	4.239	84.7
8	MC64	L6	True	1.4517	12.514	12.617	100.8
9	MC65	L7	True	1.5553	62.575	67.589	108.0

Analyte Name	NMeFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	616.1 / 58.9	**Result Table**	24-0207A
Internal Standard	D7-MeFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.87255 x (std. dev. = 0.03096) (weighting: None) RSD: 3.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8929	2.004	2.051	102.3
4	MC60	L2	True	0.9025	5.002	5.174	103.4
5	MC61	L3	True	0.8608	12.525	12.357	98.7
6	MC62	L4	True	0.8646	25.012	24.784	99.1
7	MC63	L5	True	0.8176	50.035	46.886	93.7
8	MC64	L6	True	0.8632	125.141	123.794	98.9
9	MC65	L7	True	0.9063	625.750	649.952	103.9

Analyte Name	NEtFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	630.0 / 58.9	**Result Table**	24-0207A
Internal Standard	D9-EtFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.75111 x (std. dev. = 0.02281) (weighting: None) RSD: 3.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7474	2.008	1.998	99.5
4	MC60	L2	True	0.7662	5.012	5.113	102.0
5	MC61	L3	True	0.7714	12.550	12.890	102.7
6	MC62	L4	True	0.7615	25.062	25.408	101.4
7	MC63	L5	True	0.7213	50.135	48.143	96.0
8	MC64	L6	True	0.7186	125.391	119.959	95.7
9	MC65	L7	True	0.7713	627.000	643.873	102.7

Analyte Name	HFPO-DA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	284.9 / 168.9	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.20609 x (std. dev. = 0.06230) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2172	0.801	0.808	100.9
4	MC60	L2	True	1.2667	1.999	2.099	105.0
5	MC61	L3	True	1.2059	5.004	5.003	100.0
6	MC62	L4	True	1.2493	9.993	10.351	103.6
7	MC63	L5	True	1.2466	19.990	20.661	103.4
8	MC64	L6	True	1.0841	49.997	44.940	89.9
9	MC65	L7	True	1.1729	250.000	243.111	97.2

Analyte Name	HFPO-DA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	284.9 / 184.9	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19446 x (std. dev. = 0.01481) (weighting: None) RSD: 7.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2183	0.801	0.899	112.3
4	MC60	L2	True	0.1785	1.999	1.835	91.8
5	MC61	L3	True	0.1946	5.004	5.008	100.1
6	MC62	L4	True	0.2108	9.993	10.830	108.4
7	MC63	L5	True	0.1846	19.990	18.977	94.9
8	MC64	L6	True	0.1908	49.997	49.055	98.1
9	MC65	L7	True	0.1837	250.000	236.153	94.5

Analyte Name	ADONA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	376.9 / 250.9	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 8.16926 x (std. dev. = 0.88227) (weighting: None) RSD: 10.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	9.1219	0.757	0.845	111.7
4	MC60	L2	True	8.8642	1.889	2.050	108.5
5	MC61	L3	True	8.8373	4.729	5.116	108.2
6	MC62	L4	True	8.2055	9.443	9.485	100.4
7	MC63	L5	True	8.1123	18.891	18.759	99.3
8	MC64	L6	True	7.3349	47.247	42.422	89.8
9	MC65	L7	True	6.7088	236.250	194.013	82.1

Analyte Name	ADONA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	376.9 / 84.8	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10338 x (std. dev. = 0.01166) (weighting: None) RSD: 11.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1189	0.757	0.871	115.1
4	MC60	L2	True	0.1067	1.889	1.950	103.2
5	MC61	L3	True	0.1158	4.729	5.297	112.0
6	MC62	L4	True	0.1032	9.443	9.430	99.9
7	MC63	L5	True	0.1004	18.891	18.339	97.1
8	MC64	L6	True	0.0906	47.247	41.416	87.7
9	MC65	L7	True	0.0880	236.250	201.118	85.1

Analyte Name	9Cl-PF3ONS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	530.8 / 351.0	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.51140 x (std. dev. = 0.58176) (weighting: None) RSD: 10.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	5.5972	0.747	0.759	101.6
4	MC60	L2	True	5.0643	1.865	1.714	91.9
5	MC61	L3	True	5.6205	4.669	4.761	102.0
6	MC62	L4	True	5.0366	9.323	8.520	91.4
7	MC63	L5	True	5.4427	18.651	18.418	98.8
8	MC64	L6	True	5.1139	46.647	43.283	92.8
9	MC65	L7	True	6.7045	233.250	283.744	121.7

Analyte Name	9Cl-PF3ONS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	532.8 / 353.0	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.81166 x (std. dev. = 0.20745) (weighting: None) RSD: 11.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.8531	0.747	0.764	102.3
4	MC60	L2	True	1.6739	1.865	1.723	92.4
5	MC61	L3	True	1.7196	4.669	4.432	94.9
6	MC62	L4	True	1.6418	9.323	8.449	90.6
7	MC63	L5	True	1.7677	18.651	18.199	97.6
8	MC64	L6	True	1.7705	46.647	45.588	97.7
9	MC65	L7	True	2.2550	233.250	290.332	124.5

Analyte Name	11Cl-PF3OUdS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	630.9 / 450.9	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.40798 x (std. dev. = 0.52274) (weighting: None) RSD: 9.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	5.9882	0.755	0.836	110.7
4	MC60	L2	True	5.3071	1.885	1.850	98.1
5	MC61	L3	True	5.8834	4.719	5.134	108.8
6	MC62	L4	True	5.7633	9.423	10.042	106.6
7	MC63	L5	True	5.3454	18.851	18.633	98.8
8	MC64	L6	True	4.5028	47.147	39.256	83.3
9	MC65	L7	True	5.0656	235.750	220.826	93.7

Analyte Name	11Cl-PF3OUdS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	632.9 / 452.9	**Result Table**	24-0207A
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.83803 x (std. dev. = 0.18478) (weighting: None) RSD: 10.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.0394	0.755	0.838	111.0
4	MC60	L2	True	1.8783	1.885	1.926	102.2
5	MC61	L3	True	2.0717	4.719	5.319	112.7
6	MC62	L4	True	1.8513	9.423	9.491	100.7
7	MC63	L5	True	1.7702	18.851	18.156	96.3
8	MC64	L6	True	1.5417	47.147	39.545	83.9
9	MC65	L7	True	1.7136	235.750	219.790	93.2

Analyte Name	3:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	241.0 / 177.0	**Result Table**	24-0207A
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10069 x (std. dev. = 0.00607) (weighting: None) RSD: 6.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0988	1.001	0.982	98.2
4	MC60	L2	True	0.0976	2.498	2.421	96.9
5	MC61	L3	True	0.0960	6.255	5.961	95.3
6	MC62	L4	True	0.1028	12.491	12.756	102.1
7	MC63	L5	True	0.0971	24.988	24.097	96.4
8	MC64	L6	True	0.0990	62.496	61.442	98.3
9	MC65	L7	True	0.1135	312.500	352.360	112.8

Analyte Name	3:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	241.0 / 117.0	**Result Table**	24-0207A
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00497 x (std. dev. = 3.31576e-4) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0054	1.001	1.088	108.7
4	MC60	L2	True	0.0048	2.498	2.417	96.8
5	MC61	L3	True	0.0048	6.255	6.053	96.8
6	MC62	L4	True	0.0049	12.491	12.359	98.9
7	MC63	L5	True	0.0048	24.988	24.217	96.9
8	MC64	L6	True	0.0046	62.496	57.537	92.1
9	MC65	L7	True	0.0055	312.500	343.284	109.9

Analyte Name	5:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	341.0 / 237.1	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20037 x (std. dev. = 0.00798) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1866	5.005	4.662	93.2
4	MC60	L2	True	0.1991	12.491	12.411	99.4
5	MC61	L3	True	0.2020	31.275	31.536	100.8
6	MC62	L4	True	0.1990	62.455	62.030	99.3
7	MC63	L5	True	0.2038	124.938	127.072	101.7
8	MC64	L6	True	0.2135	312.478	332.928	106.5
9	MC65	L7	True	0.1985	1562.500	1548.275	99.1

Analyte Name	5:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	341.0 / 217.0	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08808 x (std. dev. = 0.00252) (weighting: None) RSD: 2.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0832	5.005	4.726	94.4
4	MC60	L2	True	0.0906	12.491	12.844	102.8
5	MC61	L3	True	0.0873	31.275	30.995	99.1
6	MC62	L4	True	0.0886	62.455	62.824	100.6
7	MC63	L5	True	0.0897	124.938	127.233	101.8
8	MC64	L6	True	0.0900	312.478	319.226	102.2
9	MC65	L7	True	0.0872	1562.500	1547.765	99.1

Analyte Name	7:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	441.0 / 316.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10643 x (std. dev. = 0.00569) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1046	5.005	4.918	98.3
4	MC60	L2	True	0.1013	12.491	11.893	95.2
5	MC61	L3	True	0.1012	31.275	29.736	95.1
6	MC62	L4	True	0.1101	62.455	64.585	103.4
7	MC63	L5	True	0.1018	124.938	119.495	95.6
8	MC64	L6	True	0.1102	312.478	323.480	103.5
9	MC65	L7	True	0.1159	1562.500	1701.038	108.9

Analyte Name	7:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	441.0 / 336.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20830 x (std. dev. = 0.01607) (weighting: None) RSD: 7.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1946	5.005	4.676	93.4
4	MC60	L2	True	0.1931	12.491	11.580	92.7
5	MC61	L3	True	0.1955	31.275	29.358	93.9
6	MC62	L4	True	0.2193	62.455	65.747	105.3
7	MC63	L5	True	0.2015	124.938	120.863	96.7
8	MC64	L6	True	0.2200	312.478	330.041	105.6
9	MC65	L7	True	0.2341	1562.500	1755.781	112.4

Analyte Name	NFDHA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	295.0 / 201.1	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09179 x (std. dev. = 0.00482) (weighting: None) RSD: 5.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0966	0.400	0.421	105.2
4	MC60	L2	True	0.0903	0.999	0.982	98.3
5	MC61	L3	True	0.0916	2.502	2.496	99.8
6	MC62	L4	True	0.0986	4.996	5.366	107.4
7	MC63	L5	True	0.0890	9.995	9.693	97.0
8	MC64	L6	True	0.0925	24.998	25.189	100.8
9	MC65	L7	True	0.0840	125.000	114.454	91.6

Analyte Name	NFDHA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	295.0 / 84.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06751 x (std. dev. = 0.00587) (weighting: None) RSD: 8.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0769	0.400	0.456	113.9
4	MC60	L2	True	0.0714	0.999	1.057	105.8
5	MC61	L3	True	0.0712	2.502	2.638	105.4
6	MC62	L4	True	0.0651	4.996	4.819	96.5
7	MC63	L5	True	0.0617	9.995	9.138	91.4
8	MC64	L6	True	0.0656	24.998	24.294	97.2
9	MC65	L7	True	0.0606	125.000	112.293	89.8

Analyte Name	PFEESA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	314.8 / 134.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.63238 x (std. dev. = 0.38141) (weighting: None) RSD: 10.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	3.6764	0.357	0.361	101.2
4	MC60	L2	True	3.9244	0.891	0.963	108.0
5	MC61	L3	True	3.9107	2.232	2.403	107.7
6	MC62	L4	True	3.8649	4.457	4.742	106.4
7	MC63	L5	True	3.6676	8.916	9.002	101.0
8	MC64	L6	True	3.5544	22.298	21.819	97.9
9	MC65	L7	True	2.8282	111.500	86.814	77.9

Analyte Name	PFEESA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	314.8 / 82.9	**Result Table**	24-0207A
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.17298 x (std. dev. = 0.02144) (weighting: None) RSD: 12.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1967	0.357	0.406	113.7
4	MC60	L2	True	0.1738	0.891	0.895	100.5
5	MC61	L3	True	0.1912	2.232	2.468	110.6
6	MC62	L4	True	0.1834	4.457	4.726	106.1
7	MC63	L5	True	0.1696	8.916	8.742	98.1
8	MC64	L6	True	0.1638	22.298	21.110	94.7
9	MC65	L7	True	0.1323	111.500	85.284	76.5

Analyte Name	PFMPA	**Data File**	AG_03222024_1633.wiff
MRM Transition	229.0 / 84.9	**Result Table**	24-0207A
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.15088 x (std. dev. = 0.04039) (weighting: None) RSD: 3.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1965	0.400	0.416	104.0
4	MC60	L2	True	1.1739	0.999	1.019	102.0
5	MC61	L3	True	1.1403	2.502	2.479	99.1
6	MC62	L4	True	1.1221	4.996	4.871	97.5
7	MC63	L5	True	1.1076	9.995	9.619	96.2
8	MC64	L6	True	1.1117	24.998	24.146	96.6
9	MC65	L7	True	1.2040	125.000	130.770	104.6

Analyte Name	PFMBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	279.0 / 85.1	**Result Table**	24-0207A
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.31823 x (std. dev. = 0.04716) (weighting: None) RSD: 3.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.3877	0.400	0.421	105.3
4	MC60	L2	True	1.3101	0.999	0.993	99.4
5	MC61	L3	True	1.3585	2.502	2.578	103.1
6	MC62	L4	True	1.3337	4.996	5.055	101.2
7	MC63	L5	True	1.2650	9.995	9.591	96.0
8	MC64	L6	True	1.2570	24.998	23.837	95.4
9	MC65	L7	True	1.3156	125.000	124.755	99.8

Analyte Name	TDCA	**Data File**	AG_03222024_1633.wiff
MRM Transition	499.0 / 107.0	**Result Table**	24-0207A
Internal Standard	N/A	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: Not enough data points. RSD: Div0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	N/A	0.000	N/A	N/A
4	MC60	L2	True	N/A	0.000	N/A	N/A
5	MC61	L3	True	N/A	0.000	N/A	N/A
6	MC62	L4	True	N/A	0.000	N/A	N/A
7	MC63	L5	True	N/A	0.000	N/A	N/A
8	MC64	L6	True	N/A	0.000	N/A	N/A
9	MC65	L7	True	N/A	0.000	N/A	N/A

Analyte Name	13C4-PFBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	216.8 / 171.9	**Result Table**	24-0207A_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.87231 x (std. dev. = 0.01318) (weighting: None) RSD: 1.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8699	10.010	9.982	99.7
4	MC60	L2	True	0.8817	9.993	10.100	101.1
5	MC61	L3	True	0.8736	10.008	10.022	100.1
6	MC62	L4	True	0.8702	9.993	9.969	99.8
7	MC63	L5	True	0.8834	9.995	10.122	101.3
8	MC64	L6	True	0.8821	9.999	10.111	101.1
9	MC65	L7	True	0.8454	10.000	9.691	96.9

Analyte Name	13C5-PFPeA	**Data File**	AG_03222024_1633.wiff
MRM Transition	268.3 / 223.0	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.65148 x (std. dev. = 0.04205) (weighting: None) RSD: 6.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.6700	5.005	5.147	102.8
4	MC60	L2	True	0.6584	4.997	5.050	101.1
5	MC61	L3	True	0.6749	5.004	5.184	103.6
6	MC62	L4	True	0.6623	4.996	5.079	101.7
7	MC63	L5	True	0.6482	4.998	4.973	99.5
8	MC64	L6	True	0.6863	5.000	5.267	105.3
9	MC65	L7	True	0.5602	5.000	4.300	86.0

Analyte Name	13C5-PFHxA	**Data File**	AG_03222024_1633.wiff
MRM Transition	318.0 / 273.0	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.42674 x (std. dev. = 0.08880) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.5463	2.503	2.713	108.4
4	MC60	L2	True	1.4522	2.498	2.543	101.8
5	MC61	L3	True	1.4669	2.502	2.572	102.8
6	MC62	L4	True	1.4484	2.498	2.536	101.5
7	MC63	L5	True	1.3673	2.499	2.395	95.8
8	MC64	L6	True	1.4422	2.500	2.527	101.1
9	MC65	L7	True	1.2639	2.500	2.215	88.6

Analyte Name	13C4-PFHpA	**Data File**	AG_03222024_1633.wiff
MRM Transition	367.1 / 322.0	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.58596 x (std. dev. = 0.24167) (weighting: None) RSD: 9.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.6280	2.503	2.544	101.6
4	MC60	L2	True	2.6474	2.498	2.557	102.4
5	MC61	L3	True	2.6436	2.502	2.558	102.2
6	MC62	L4	True	2.7513	2.498	2.658	106.4
7	MC63	L5	True	2.5844	2.499	2.497	99.9
8	MC64	L6	True	2.7851	2.500	2.692	107.7
9	MC65	L7	True	2.0620	2.500	1.993	79.7

Analyte Name	13C8-PFOA	**Data File**	AG_03222024_1633.wiff
MRM Transition	421.1 / 376.0	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.27936 x (std. dev. = 0.07747) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2367	2.503	2.420	96.7
4	MC60	L2	True	1.3374	2.498	2.611	104.5
5	MC61	L3	True	1.3029	2.502	2.548	101.8
6	MC62	L4	True	1.3390	2.498	2.614	104.7
7	MC63	L5	True	1.3198	2.499	2.578	103.2
8	MC64	L6	True	1.2977	2.500	2.536	101.4
9	MC65	L7	True	1.1220	2.500	2.193	87.7

Analyte Name	13C9-PFNA	**Data File**	AG_03222024_1633.wiff
MRM Transition	472.1 / 427.0	**Result Table**	24-0207A_SIS
Internal Standard	13C5-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.92354 x (std. dev. = 0.05398) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9323	1.251	1.263	101.0
4	MC60	L2	True	0.9250	1.249	1.251	100.2
5	MC61	L3	True	0.9114	1.251	1.235	98.7
6	MC62	L4	True	1.0265	1.249	1.388	111.2
7	MC63	L5	True	0.8917	1.249	1.206	96.6
8	MC64	L6	True	0.8486	1.250	1.149	91.9
9	MC65	L7	True	0.9293	1.250	1.258	100.6

Analyte Name	13C6-PFDA	**Data File**	AG_03222024_1633.wiff
MRM Transition	519.1 / 474.1	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.27701 x (std. dev. = 0.06222) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2306	1.251	1.206	96.4
4	MC60	L2	True	1.2949	1.249	1.266	101.4
5	MC61	L3	True	1.2599	1.251	1.234	98.7
6	MC62	L4	True	1.3007	1.249	1.272	101.9
7	MC63	L5	True	1.2446	1.249	1.217	97.5
8	MC64	L6	True	1.3974	1.250	1.368	109.4
9	MC65	L7	True	1.2110	1.250	1.185	94.8

Analyte Name	13C7-PFUnA	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.0 / 525.1	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.48104 x (std. dev. = 0.03215) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4791	1.251	1.246	99.6
4	MC60	L2	True	0.5368	1.249	1.394	111.6
5	MC61	L3	True	0.4844	1.251	1.260	100.7
6	MC62	L4	True	0.4546	1.249	1.180	94.5
7	MC63	L5	True	0.4515	1.249	1.172	93.9
8	MC64	L6	True	0.5079	1.250	1.320	105.6
9	MC65	L7	True	0.4530	1.250	1.177	94.2

Analyte Name	13C2-PFDoA	**Data File**	AG_03222024_1633.wiff
MRM Transition	615.1 / 570.0	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99484 x (std. dev. = 0.07761) (weighting: None) RSD: 7.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9756	1.251	1.227	98.1
4	MC60	L2	True	1.0050	1.249	1.262	101.0
5	MC61	L3	True	1.0279	1.251	1.293	103.3
6	MC62	L4	True	0.9391	1.249	1.179	94.4
7	MC63	L5	True	1.0180	1.249	1.278	102.3
8	MC64	L6	True	1.1234	1.250	1.412	112.9
9	MC65	L7	True	0.8749	1.250	1.099	87.9

Analyte Name	13C2-PFTeDA	**Data File**	AG_03222024_1633.wiff
MRM Transition	715.2 / 670.0	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.52183 x (std. dev. = 0.02898) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5089	1.251	1.220	97.5
4	MC60	L2	True	0.5255	1.249	1.258	100.7
5	MC61	L3	True	0.5708	1.251	1.368	109.4
6	MC62	L4	True	0.4978	1.249	1.192	95.4
7	MC63	L5	True	0.5054	1.249	1.210	96.9
8	MC64	L6	True	0.5506	1.250	1.319	105.5
9	MC65	L7	True	0.4937	1.250	1.183	94.6

Analyte Name	13C3-PFBS	**Data File**	AG_03222024_1633.wiff
MRM Transition	302.1 / 79.9	**Result Table**	24-0207A_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.88637 x (std. dev. = 0.28462) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	4.2026	2.332	2.522	108.1
4	MC60	L2	True	4.1992	2.328	2.515	108.1
5	MC61	L3	True	3.7592	2.332	2.256	96.7
6	MC62	L4	True	3.6706	2.328	2.199	94.5
7	MC63	L5	True	4.0459	2.329	2.425	104.1
8	MC64	L6	True	3.8879	2.330	2.331	100.0
9	MC65	L7	True	3.4392	2.330	2.062	88.5

Analyte Name	13C3-PFHxS	**Data File**	AG_03222024_1633.wiff
MRM Transition	402.1 / 79.9	**Result Table**	24-0207A_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 4.66240 x (std. dev. = 0.19539) (weighting: None) RSD: 4.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	4.8832	2.372	2.484	104.7
4	MC60	L2	True	4.7058	2.368	2.390	100.9
5	MC61	L3	True	4.4306	2.372	2.254	95.0
6	MC62	L4	True	4.4903	2.368	2.281	96.3
7	MC63	L5	True	4.8966	2.369	2.488	105.0
8	MC64	L6	True	4.7489	2.370	2.414	101.9
9	MC65	L7	True	4.4814	2.370	2.278	96.1

Analyte Name	13C8-PFOS	**Data File**	AG_03222024_1633.wiff
MRM Transition	507.1 / 79.9	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.08252 x (std. dev. = 0.05645) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0776	2.397	2.386	99.6
4	MC60	L2	True	1.0575	2.393	2.338	97.7
5	MC61	L3	True	1.1095	2.397	2.457	102.5
6	MC62	L4	True	1.1843	2.393	2.618	109.4
7	MC63	L5	True	1.0732	2.394	2.373	99.1
8	MC64	L6	True	1.0784	2.395	2.386	99.6
9	MC65	L7	True	0.9972	2.395	2.206	92.1

Analyte Name	13C2-4:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	329.1 / 80.9	**Result Table**	24-0207A_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.90692 x (std. dev. = 0.16293) (weighting: None) RSD: 18.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0447	4.695	5.408	115.2
4	MC60	L2	True	1.0319	4.687	5.333	113.8
5	MC61	L3	True	1.0495	4.694	5.432	115.7
6	MC62	L4	True	0.9613	4.687	4.968	106.0
7	MC63	L5	True	0.8746	4.688	4.521	96.4
8	MC64	L6	True	0.7605	4.690	3.933	83.9
9	MC65	L7	True	0.6260	4.690	3.237	69.0

Analyte Name	13C2-6:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	429.1 / 80.9	**Result Table**	24-0207A_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.64538 x (std. dev. = 0.08943) (weighting: None) RSD: 13.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8193	4.760	6.043	127.0
4	MC60	L2	True	0.6727	4.752	4.953	104.2
5	MC61	L3	True	0.6258	4.759	4.614	97.0
6	MC62	L4	True	0.6012	4.752	4.427	93.2
7	MC63	L5	True	0.6565	4.753	4.835	101.7
8	MC64	L6	True	0.6128	4.755	4.515	95.0
9	MC65	L7	True	0.5293	4.755	3.900	82.0

Analyte Name	13C2-8:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	529.1 / 80.9	**Result Table**	24-0207A_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16524 x (std. dev. = 0.00944) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1803	4.805	5.243	109.1
4	MC60	L2	True	0.1694	4.797	4.918	102.5
5	MC61	L3	True	0.1671	4.804	4.857	101.1
6	MC62	L4	True	0.1625	4.797	4.717	98.3
7	MC63	L5	True	0.1594	4.798	4.630	96.5
8	MC64	L6	True	0.1498	4.800	4.352	90.7
9	MC65	L7	True	0.1682	4.800	4.885	101.8

Analyte Name	13C8-PFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	506.1 / 77.8	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.72519 x (std. dev. = 0.06532) (weighting: None) RSD: 9.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7820	2.503	2.699	107.8
4	MC60	L2	True	0.7872	2.498	2.712	108.6
5	MC61	L3	True	0.7621	2.502	2.629	105.1
6	MC62	L4	True	0.7568	2.498	2.607	104.4
7	MC63	L5	True	0.7087	2.499	2.442	97.7
8	MC64	L6	True	0.6651	2.500	2.293	91.7
9	MC65	L7	True	0.6144	2.500	2.118	84.7

Analyte Name	D3-MeFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	515.0 / 219.0	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.24232 x (std. dev. = 0.01476) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2460	2.503	2.541	101.5
4	MC60	L2	True	0.2537	2.498	2.616	104.7
5	MC61	L3	True	0.2410	2.502	2.488	99.5
6	MC62	L4	True	0.2615	2.498	2.696	107.9
7	MC63	L5	True	0.2427	2.499	2.502	100.1
8	MC64	L6	True	0.2367	2.500	2.442	97.7
9	MC65	L7	True	0.2147	2.500	2.215	88.6

Analyte Name	D5-EtFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	531.1 / 219.0	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28161 x (std. dev. = 0.02080) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2860	2.503	2.542	101.6
4	MC60	L2	True	0.2951	2.498	2.618	104.8
5	MC61	L3	True	0.2894	2.502	2.571	102.8
6	MC62	L4	True	0.3022	2.498	2.681	107.3
7	MC63	L5	True	0.2810	2.499	2.493	99.8
8	MC64	L6	True	0.2796	2.500	2.482	99.3
9	MC65	L7	True	0.2380	2.500	2.113	84.5

Analyte Name	d3-MeFOSAA	**Data File**	AG_03222024_1633.wiff
MRM Transition	573.2 / 419.0	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21156 x (std. dev. = 0.02806) (weighting: None) RSD: 13.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2226	5.005	5.266	105.2
4	MC60	L2	True	0.2208	4.997	5.215	104.4
5	MC61	L3	True	0.2156	5.004	5.098	101.9
6	MC62	L4	True	0.2443	4.996	5.770	115.5
7	MC63	L5	True	0.2174	4.998	5.135	102.8
8	MC64	L6	True	0.2068	5.000	4.887	97.8
9	MC65	L7	True	0.1535	5.000	3.627	72.6

Analyte Name	d5-EtFOSAA	**Data File**	AG_03222024_1633.wiff
MRM Transition	589.2 / 419.0	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16423 x (std. dev. = 0.02321) (weighting: None) RSD: 14.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1682	5.005	5.126	102.4
4	MC60	L2	True	0.1735	4.997	5.280	105.7
5	MC61	L3	True	0.1728	5.004	5.264	105.2
6	MC62	L4	True	0.1751	4.996	5.328	106.7
7	MC63	L5	True	0.1880	4.998	5.722	114.5
8	MC64	L6	True	0.1557	5.000	4.740	94.8
9	MC65	L7	True	0.1163	5.000	3.540	70.8

Analyte Name	D7-MeFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	623.2 / 58.9	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20662 x (std. dev. = 0.01962) (weighting: None) RSD: 9.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2156	25.025	26.117	104.4
4	MC60	L2	True	0.2163	24.983	26.159	104.7
5	MC61	L3	True	0.2151	25.020	26.048	104.1
6	MC62	L4	True	0.2262	24.982	27.346	109.5
7	MC63	L5	True	0.2076	24.988	25.107	100.5
8	MC64	L6	True	0.1991	24.998	24.092	96.4
9	MC65	L7	True	0.1663	25.000	20.126	80.5

Analyte Name	D9-EtFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	639.2 / 58.9	**Result Table**	24-0207A_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23662 x (std. dev. = 0.01964) (weighting: None) RSD: 8.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2495	25.025	26.388	105.5
4	MC60	L2	True	0.2478	24.983	26.165	104.7
5	MC61	L3	True	0.2364	25.020	24.997	99.9
6	MC62	L4	True	0.2548	24.982	26.903	107.7
7	MC63	L5	True	0.2368	24.988	25.002	100.1
8	MC64	L6	True	0.2355	24.998	24.884	99.5
9	MC65	L7	True	0.1955	25.000	20.656	82.6

Analyte Name	13C3-HFPO-DA	**Data File**	AG_03222024_1633.wiff
MRM Transition	286.9 / 168.9	**Result Table**	24-0207A_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.57618 x (std. dev. = 0.03541) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5815	10.010	10.102	100.9
4	MC60	L2	True	0.5716	9.993	9.913	99.2
5	MC61	L3	True	0.5855	10.008	10.170	101.6
6	MC62	L4	True	0.5866	9.993	10.174	101.8
7	MC63	L5	True	0.5549	9.995	9.626	96.3
8	MC64	L6	True	0.6350	9.999	11.019	110.2
9	MC65	L7	True	0.5182	10.000	8.993	89.9

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		Isotope Dilution Calibration Curve Concentrations (ng/mL)							IB (ng/mL)	ICC (ng/mL)
Analyte	**CAS No.**	**MC59**	**MC60**	**MC61**	**MC62**	**MC63**	**MC64**	**MC65**	**MB88**	**MC43**
PFBA	**375-22-4**	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
PFPeA	**2706-90-3**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.050
PFHxA	**307-24-4**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFHpA	**375-85-9**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFOA (branched)	**335-67-1**	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
PFNA (branched)	**375-95-1**	0.200	0.499	1.250	2.496	4.994	12.489	62.450	-	5.000
PFDA	**335-76-2**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFUnA	**2058-94-8**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFDoA	**307-55-1**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTrDA	**72629-94-8**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTeDA	**376-06-7**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFBS	**375-73-5**	0.178	0.444	1.111	2.218	4.438	11.099	55.500	-	5.000
PFPeS	**2706-91-4**	0.188	0.470	1.176	2.348	4.698	11.749	58.750	-	5.000
PFHxS (branched)	**355-46-4**	0.183	0.456	1.141	2.279	4.560	11.404	57.025	-	5.000
PFHpS	**375-92-8**	0.191	0.476	1.191	2.378	4.758	11.899	59.500	-	5.000
PFOS (branched)	**1763-23-1**	0.186	0.464	1.161	2.318	4.638	11.599	58.000	-	5.000
PFNS	**68259-12-1**	0.192	0.480	1.201	2.398	4.798	11.999	60.000	-	5.050
PFDS	**335-77-3**	0.193	0.482	1.206	2.408	4.818	12.049	60.250	-	5.050
PFDoS	**79780-39-5**	0.194	0.484	1.211	2.418	4.838	12.099	60.500	-	4.850
4:2FTS	**757124-72-4**	0.750	1.873	4.689	9.363	18.731	46.847	234.250	-	5.000
6:2FTS	**27619-97-2**	0.762	1.901	4.759	9.503	19.010	47.547	237.750	-	5.000
8:2FTS	**39108-34-4**	0.769	1.919	4.804	9.593	19.190	47.997	240.000	-	5.050
PFOSA (branched)	**754-91-6**	0.201	0.502	1.256	2.508	5.017	12.549	62.750	-	5.000
NMeFOSA (branched)	**31506-32-8**	0.200	0.500	1.252	2.499	5.000	12.504	62.525	-	5.000
NEtFOSA (branched)	**4151-50-2**	0.201	0.501	1.254	2.503	5.007	12.524	62.625	-	5.000
NMeFOSAA (branched)	**2355-31-9**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
NEtFOSAA (branched)	**2991-50-6**	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
NMeFOSE (branched)	**24448-09-7**	2.004	5.002	12.525	25.012	50.035	125.141	625.750	-	5.000
NEtFOSE (branched)	**1691-99-2**	2.008	5.012	12.550	25.062	50.135	125.391	627.000	-	5.000
HFPO-DA	**13252-13-6**	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
Adona	**919005-14-4**	0.757	1.889	4.729	9.443	18.891	47.247	236.250	-	5.000
9Cl-PF3ONS	**756426-58-1**	0.747	1.865	4.669	9.323	18.651	46.647	233.250	-	5.000
11Cl-PF3OUdS	**763051-92-9**	0.755	1.885	4.719	9.423	18.851	47.147	235.750	-	5.000
3:3 FTCA	**356-02-5**	1.001	2.498	6.255	12.491	24.988	62.496	312.500	-	6.250
5:3 FTCA	**914637-49-3**	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
7:3 FTCA	**812-70-4**	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
PFMPA	**377-73-1**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFEESA	**113507-82-7**	0.357	0.891	2.232	4.457	8.916	22.298	111.500	-	4.460
NFDHA	**151772-58-6**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFMBA	**863090-89-5**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000

		Surrogates / Extracted Internal Standards								
13C4-PFBA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
13C5-PFPeA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C5-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFHpA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C8-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C9-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C6-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C7-PFUnA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDoA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFTeDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C3-PFBS	-	2.332	2.328	2.332	2.328	2.329	2.330	2.330	2.330	2.330
13C3-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C8-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395
13C2-4:2FTS	-	4.695	4.687	4.694	4.687	4.688	4.690	4.690	4.690	4.690
13C2-6:2FTS	-	4.760	4.752	4.759	4.752	4.753	4.755	4.755	4.755	4.755
13C2-8:2FTS	-	4.805	4.797	4.804	4.797	4.798	4.800	4.800	4.800	4.800
13C8-FOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D3-MeFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D5-EtFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
d3-MeFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
d5-EtFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
D7-MeFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	25.000	25.000
D9-EtFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	25.000	25.000
13C3-HFPO-DA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
		Internal Standards								
13C3-PFBA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C2-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C5-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
18O2-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C4-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395

Sample Name	MC43 ICC	**Injection Vial**	11
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:14:10 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.96	4.643	5.000	92.86
PFPeA	263.0 / 219.0	4.40	5.003	5.050	99.06
PFHxA_1	313.0 / 269.0	5.49	5.154	5.000	103.08
PFHxA_2	313.0 / 118.9	5.49	5.063	5.000	101.27
PFHpA_1	363.1 / 319.0	6.21	4.432	5.000	88.64
PFHpA_2	363.1 / 169.0	6.21	4.405	5.000	88.11
PFOA_1	413.0 / 369.0	6.73	5.763	5.000	115.25
PFOA_2	413.0 / 169.0	6.73	3.362	5.000	67.25
PFNA_1	463.0 / 419.0	7.19	5.649	5.000	112.97
PFNA_2	463.0 / 219.0	7.19	4.560	5.000	91.19
PFDA_1	512.9 / 469.0	7.60	5.245	5.000	104.90
PFDA_2	512.9 / 219.0	7.60	5.502	5.000	110.03
PFUnA_1	563.1 / 519.0	7.98	4.822	5.000	96.45
PFUnA_2	563.1 / 269.1	7.98	4.726	5.000	94.52
PFDoA_1	613.1 / 569.0	8.35	4.250	5.000	85.01
PFDoA_2	613.1 / 319.0	8.35	4.128	5.000	82.56
PFTrDA_1	663.0 / 619.0	8.71	4.567	5.000	91.33
PFTrDA_2	663.0 / 168.9	8.71	4.246	5.000	84.92
PFTeDA_1	713.0 / 669.0	9.05	5.449	5.000	108.98
PFTeDA_2	713.0 / 168.9	9.05	4.917	5.000	98.34
PFBS_1	298.7 / 79.9	5.37	5.082	5.000	101.65
PFBS_2	298.9 / 98.8	5.37	4.725	5.000	94.51
PFPeS_1	349.1 / 79.9	6.21	5.769	5.000	115.38
PFPeS_2	349.1 / 98.9	6.21	5.494	5.000	109.89
PFHxS_1	398.7 / 79.9	6.79	5.598	5.000	111.97
PFHxS_2	398.7 / 98.9	6.79	5.131	5.000	102.62
PFHpS_1	449.0 / 79.9	7.28	4.607	5.000	92.14
PFHpS_2	449.0 / 98.9	7.28	4.758	5.000	95.16
PFOS_1	498.9 / 79.9	7.71	4.247	5.000	84.95
PFOS_2	498.9 / 98.9	7.70	3.990	5.000	79.79
PFNS_1	548.8 / 79.9	8.11	4.638	5.050	91.83
PFNS_2	548.8 / 98.9	8.11	4.868	5.050	96.40
PFDS_1	599.0 / 79.9	8.49	4.643	5.050	91.95
PFDS_2	599.0 / 98.9	8.49	4.768	5.050	94.41
PFDoS_1	699.1 / 79.9	9.18	5.156	4.850	106.31
PFDoS_2	699.1 / 98.9	9.18	5.121	4.850	105.59
4:2FTS_1	327.1 / 307.0	5.28	5.341	5.000	106.81
4:2FTS_2	327.1 / 80.9	5.28	5.220	5.000	104.40
6:2FTS_1	427.1 / 407.0	6.56	5.032	5.000	100.64
6:2FTS_2	427.1 / 80.9	6.56	5.316	5.000	106.32
8:2FTS_1	527.1 / 507.0	7.43	5.212	5.050	103.21
8:2FTS_2	527.1 / 80.8	7.43	5.439	5.050	107.71
PFOSA_1	498.1 / 77.9	8.06	4.982	5.000	99.64
PFOSA_2	498.1 / 478.0	8.06	6.731	5.000	134.63
NMeFOSA_1	511.9 / 219.0	10.12	5.578	5.000	111.57
NMeFOSA_2	511.9 / 169.0	10.12	4.192	5.000	83.83
NEtFOSA_1	526.0 / 219.0	10.46	5.480	5.000	109.60
NEtFOSA_2	526.0 / 169.0	10.46	4.411	5.000	88.21
NMeFOSAA_1	570.1 / 419.0	7.63	5.471	5.000	109.41
NMeFOSAA_2	570.1 / 483.0	7.63	4.969	5.000	99.38
NEtFOSAA_1	584.2 / 419.1	7.78	4.807	5.000	96.15
NEtFOSAA_2	584.2 / 526.0	7.78	4.790	5.000	95.80
NMeFOSE	616.1 / 58.9	10.08	5.716	5.000	114.33
NEtFOSE	630.0 / 58.9	10.38	5.742	5.000	114.84
HFPO-DA_1	284.9 / 168.9	5.75	4.767	5.000	95.34
HFPO-DA_2	284.9 / 184.9	5.75	4.977	5.000	99.54
ADONA_1	376.9 / 250.9	6.40	5.564	5.000	111.27
ADONA_2	376.9 / 84.8	6.40	5.885	5.000	117.71
9Cl-PF3ONS_1	530.8 / 351.0	7.98	4.859	5.000	97.18
9Cl-PF3ONS_2	532.8 / 353.0	7.98	4.445	5.000	88.91
11Cl-PF3OUdS_1	630.9 / 450.9	8.73	5.359	5.000	107.19
11Cl-PF3OUdS_2	632.9 / 452.9	8.73	5.201	5.000	104.01

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
3:3 FTCA_1	241.0 / 177.0	3.70	7.474	6.250	119.59
3:3 FTCA_2	241.0 / 117.0	3.70	7.832	6.250	125.31
5:3 FTCA_1	341.0 / 237.1	5.80	7.040	6.250	112.64
5:3 FTCA_2	341.0 / 217.0	5.80	6.823	6.250	109.16
7:3 FTCA_1	441.0 / 316.9	6.86	7.388	6.250	118.20
7:3 FTCA_2	441.0 / 336.9	6.86	6.886	6.250	110.18
NFDHA_1	295.0 / 201.1	5.38	4.880	5.000	97.59
NFDHA_2	295.0 / 84.9	5.38	4.852	5.000	97.04
PFEESA_1	314.8 / 134.9	5.77	4.807	4.460	107.78
PFEESA_2	314.8 / 82.9	5.77	4.676	4.460	104.84
PFMPA	229.0 / 84.9	3.13	5.478	5.000	109.56
PFMBA	279.0 / 85.1	4.80	5.395	5.000	107.90
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC59 ISC	**Injection Vial**	12
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:36:56 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.96	0.807	0.801	100.71
PFPeA	263.0 / 219.0	4.42	0.396	0.400	98.89
PFHxA_1	313.0 / 269.0	5.51	0.230	0.200	115.07
PFHxA_2	313.0 / 118.9	5.51	0.314	0.200	156.76
PFHpA_1	363.1 / 319.0	6.24	0.205	0.200	102.58
PFHpA_2	363.1 / 169.0	6.23	0.233	0.200	116.40
PFOA_1	413.0 / 369.0	6.76	0.196	0.200	98.08
PFOA_2	413.0 / 169.0	6.69	0.190	0.200	95.01
PFNA_1	463.0 / 419.0	7.21	0.249	0.200	124.70
PFNA_2	463.0 / 219.0	7.16	0.199	0.200	99.63
PFDA_1	512.9 / 469.0	7.61	0.242	0.200	121.22
PFDA_2	512.9 / 219.0	7.61	0.236	0.200	118.04
PFUnA_1	563.1 / 519.0	8.00	0.192	0.200	96.25
PFUnA_2	563.1 / 269.1	8.00	0.180	0.200	89.98
PFDoA_1	613.1 / 569.0	8.37	0.205	0.200	102.65
PFDoA_2	613.1 / 319.0	8.37	0.214	0.200	106.85
PFTrDA_1	663.0 / 619.0	8.73	0.217	0.200	108.54
PFTrDA_2	663.0 / 168.9	8.73	0.182	0.200	90.95
PFTeDA_1	713.0 / 669.0	9.06	0.198	0.200	98.90
PFTeDA_2	713.0 / 168.9	9.06	0.250	0.200	124.91
PFBS_1	298.7 / 79.9	5.39	0.194	0.178	109.26
PFBS_2	298.9 / 98.8	5.39	0.178	0.178	99.75
PFPeS_1	349.1 / 79.9	6.24	0.209	0.188	111.41
PFPeS_2	349.1 / 98.9	6.24	0.181	0.188	96.28
PFHxS_1	398.7 / 79.9	6.82	0.205	0.183	111.87
PFHxS_2	398.7 / 98.9	6.82	0.200	0.183	109.49
PFHpS_1	449.0 / 79.9	7.30	0.205	0.191	107.56
PFHpS_2	449.0 / 98.9	7.30	0.187	0.191	97.74
PFOS_1	498.9 / 79.9	7.72	0.213	0.186	114.41
PFOS_2	498.9 / 98.9	7.72	0.205	0.186	110.10
PFNS_1	548.8 / 79.9	8.12	0.177	0.192	92.19
PFNS_2	548.8 / 98.9	8.12	0.238	0.192	124.07
PFDS_1	599.0 / 79.9	8.50	0.216	0.193	112.02
PFDS_2	599.0 / 98.9	8.50	0.232	0.193	120.14
PFDoS_1	699.1 / 79.9	9.20	0.198	0.194	101.94
PFDoS_2	699.1 / 98.9	9.20	0.210	0.194	108.01
4:2FTS_1	327.1 / 307.0	5.30	0.819	0.750	109.22
4:2FTS_2	327.1 / 80.9	5.30	0.812	0.750	108.27
6:2FTS_1	427.1 / 407.0	6.59	0.898	0.762	117.82
6:2FTS_2	427.1 / 80.9	6.59	0.943	0.762	123.69
8:2FTS_1	527.1 / 507.0	7.45	0.792	0.769	103.00
8:2FTS_2	527.1 / 80.8	7.45	0.852	0.769	110.77
PFOSA_1	498.1 / 77.9	8.07	0.209	0.201	103.86
PFOSA_2	498.1 / 478.0	7.96	0.312	0.201	155.01
NMeFOSA_1	511.9 / 219.0	10.13	0.183	0.200	91.28
NMeFOSA_2	511.9 / 169.0	10.07	0.222	0.200	111.03
NEtFOSA_1	526.0 / 219.0	10.48	0.217	0.201	108.05
NEtFOSA_2	526.0 / 169.0	10.42	0.218	0.201	108.39
NMeFOSAA_1	570.1 / 419.0	7.65	0.202	0.200	101.16
NMeFOSAA_2	570.1 / 483.0	7.58	0.257	0.200	128.32
NEtFOSAA_1	584.2 / 419.1	7.79	0.235	0.200	117.49
NEtFOSAA_2	584.2 / 526.0	7.79	0.222	0.200	110.96
NMeFOSE	616.1 / 58.9	10.09	1.902	2.004	94.91
NEtFOSE	630.0 / 58.9	10.39	2.086	2.008	103.86
HFPO-DA_1	284.9 / 168.9	5.77	0.764	0.801	95.36
HFPO-DA_2	284.9 / 184.9	5.77	0.950	0.801	118.61
ADONA_1	376.9 / 250.9	6.43	0.852	0.757	112.57
ADONA_2	376.9 / 84.8	6.43	0.893	0.757	117.96
9Cl-PF3ONS_1	530.8 / 351.0	7.99	0.762	0.747	102.01
9Cl-PF3ONS_2	532.8 / 353.0	7.99	0.726	0.747	97.24
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	0.943	0.755	124.85

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	0.889	0.755	117.70
3:3 FTCA_1	241.0 / 177.0	3.74	0.968	1.001	96.67
3:3 FTCA_2	241.0 / 117.0	3.74	0.932	1.001	93.13
5:3 FTCA_1	341.0 / 237.1	5.83	5.137	5.005	102.64
5:3 FTCA_2	341.0 / 217.0	5.83	5.455	5.005	109.00
7:3 FTCA_1	441.0 / 316.9	6.88	4.931	5.005	98.53
7:3 FTCA_2	441.0 / 336.9	6.88	4.895	5.005	97.79
NFDHA_1	295.0 / 201.1	5.41	0.458	0.400	114.59
NFDHA_2	295.0 / 84.9	5.40	0.408	0.400	102.02
PFEESA_1	314.8 / 134.9	5.80	0.444	0.357	124.24
PFEESA_2	314.8 / 82.9	5.79	0.431	0.357	120.64
PFMPA	229.0 / 84.9	3.18	0.413	0.400	103.34
PFMBA	279.0 / 85.1	4.82	0.414	0.400	103.41
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:59:43 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	9.825	9.993	98.32
PFPeA	263.0 / 219.0	4.44	5.008	4.996	100.25
PFHxA_1	313.0 / 269.0	5.53	2.546	2.498	101.94
PFHxA_2	313.0 / 118.9	5.53	2.420	2.498	96.88
PFHpA_1	363.1 / 319.0	6.26	2.576	2.498	103.13
PFHpA_2	363.1 / 169.0	6.26	2.336	2.498	93.51
PFOA_1	413.0 / 369.0	6.79	2.356	2.501	94.19
PFOA_2	413.0 / 169.0	6.70	2.382	2.501	95.23
PFNA_1	463.0 / 419.0	7.24	2.345	2.496	93.96
PFNA_2	463.0 / 219.0	7.23	2.390	2.496	95.77
PFDA_1	512.9 / 469.0	7.64	2.447	2.498	97.97
PFDA_2	512.9 / 219.0	7.64	2.489	2.498	99.64
PFUnA_1	563.1 / 519.0	8.02	2.354	2.498	94.25
PFUnA_2	563.1 / 269.1	8.02	2.117	2.498	84.75
PFDoA_1	613.1 / 569.0	8.38	2.399	2.498	96.02
PFDoA_2	613.1 / 319.0	8.38	2.198	2.498	87.97
PFTrDA_1	663.0 / 619.0	8.73	2.551	2.498	102.13
PFTrDA_2	663.0 / 168.9	8.73	2.239	2.498	89.64
PFTeDA_1	713.0 / 669.0	9.07	2.478	2.498	99.21
PFTeDA_2	713.0 / 168.9	9.07	2.470	2.498	98.89
PFBS_1	298.7 / 79.9	5.41	2.146	2.218	96.76
PFBS_2	298.9 / 98.8	5.40	2.194	2.218	98.93
PFPeS_1	349.1 / 79.9	6.26	2.521	2.348	107.37
PFPeS_2	349.1 / 98.9	6.26	2.481	2.348	105.66
PFHxS_1	398.7 / 79.9	6.85	2.188	2.279	96.03
PFHxS_2	398.7 / 98.9	6.84	2.197	2.279	96.41
PFHpS_1	449.0 / 79.9	7.33	2.306	2.378	96.98
PFHpS_2	449.0 / 98.9	7.33	2.187	2.378	91.96
PFOS_1	498.9 / 79.9	7.74	2.160	2.318	93.18
PFOS_2	498.9 / 98.9	7.74	2.215	2.318	95.57
PFNS_1	548.8 / 79.9	8.14	2.243	2.398	93.54
PFNS_2	548.8 / 98.9	8.14	2.353	2.398	98.14
PFDS_1	599.0 / 79.9	8.51	2.541	2.408	105.53
PFDS_2	599.0 / 98.9	8.51	2.491	2.408	103.43
PFDoS_1	699.1 / 79.9	9.20	2.277	2.418	94.18
PFDoS_2	699.1 / 98.9	9.20	2.396	2.418	99.10
4:2FTS_1	327.1 / 307.0	5.31	8.984	9.363	95.95
4:2FTS_2	327.1 / 80.9	5.31	8.547	9.363	91.29
6:2FTS_1	427.1 / 407.0	6.61	10.139	9.503	106.70
6:2FTS_2	427.1 / 80.9	6.61	10.222	9.503	107.57
8:2FTS_1	527.1 / 507.0	7.48	11.290	9.593	117.69
8:2FTS_2	527.1 / 80.8	7.48	11.970	9.593	124.78
PFOSA_1	498.1 / 77.9	8.10	2.450	2.508	97.68
PFOSA_2	498.1 / 478.0	8.10	2.258	2.508	90.05
NMeFOSA_1	511.9 / 219.0	10.13	2.538	2.499	101.57
NMeFOSA_2	511.9 / 169.0	10.09	2.376	2.499	95.06
NEtFOSA_1	526.0 / 219.0	10.47	2.585	2.503	103.29
NEtFOSA_2	526.0 / 169.0	10.42	2.573	2.503	102.79
NMeFOSAA_1	570.1 / 419.0	7.67	2.600	2.498	104.07
NMeFOSAA_2	570.1 / 483.0	7.67	2.434	2.498	97.45
NEtFOSAA_1	584.2 / 419.1	7.81	2.260	2.501	90.37
NEtFOSAA_2	584.2 / 526.0	7.81	2.390	2.501	95.56
NMeFOSE	616.1 / 58.9	10.09	24.351	25.012	97.36
NEtFOSE	630.0 / 58.9	10.39	25.968	25.062	103.62
HFPO-DA_1	284.9 / 168.9	5.79	9.317	9.993	93.23
HFPO-DA_2	284.9 / 184.9	5.79	9.691	9.993	96.98
ADONA_1	376.9 / 250.9	6.46	9.207	9.443	97.51
ADONA_2	376.9 / 84.8	6.46	9.369	9.443	99.21
9Cl-PF3ONS_1	530.8 / 351.0	8.01	8.816	9.323	94.56
9Cl-PF3ONS_2	532.8 / 353.0	8.01	8.304	9.323	89.07
11Cl-PF3OUdS_1	630.9 / 450.9	8.76	9.563	9.423	101.48

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	9.263	9.423	98.30
3:3 FTCA_1	241.0 / 177.0	3.76	12.287	12.491	98.37
3:3 FTCA_2	241.0 / 117.0	3.76	13.048	12.491	104.46
5:3 FTCA_1	341.0 / 237.1	5.84	66.315	62.455	106.18
5:3 FTCA_2	341.0 / 217.0	5.84	68.140	62.455	109.10
7:3 FTCA_1	441.0 / 316.9	6.91	66.362	62.455	106.26
7:3 FTCA_2	441.0 / 336.9	6.91	64.453	62.455	103.20
NFDHA_1	295.0 / 201.1	5.42	5.022	4.996	100.53
NFDHA_2	295.0 / 84.9	5.42	5.286	4.996	105.81
PFEESA_1	314.8 / 134.9	5.81	5.049	4.457	113.28
PFEESA_2	314.8 / 82.9	5.81	4.908	4.457	110.11
PFMPA	229.0 / 84.9	3.20	4.874	4.996	97.56
PFMBA	279.0 / 85.1	4.83	4.832	4.996	96.73
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	26
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 4:56:13 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	9.835	9.993	98.42
PFPeA	263.0 / 219.0	4.43	5.224	4.996	104.56
PFHxA_1	313.0 / 269.0	5.52	2.599	2.498	104.05
PFHxA_2	313.0 / 118.9	5.52	2.205	2.498	88.27
PFHpA_1	363.1 / 319.0	6.25	2.460	2.498	98.47
PFHpA_2	363.1 / 169.0	6.25	2.176	2.498	87.12
PFOA_1	413.0 / 369.0	6.78	2.493	2.501	99.69
PFOA_2	413.0 / 169.0	6.69	2.423	2.501	96.89
PFNA_1	463.0 / 419.0	7.23	2.568	2.496	102.88
PFNA_2	463.0 / 219.0	7.23	2.450	2.496	98.15
PFDA_1	512.9 / 469.0	7.63	2.552	2.498	102.17
PFDA_2	512.9 / 219.0	7.63	2.281	2.498	91.31
PFUnA_1	563.1 / 519.0	8.01	2.476	2.498	99.13
PFUnA_2	563.1 / 269.1	8.01	2.403	2.498	96.20
PFDoA_1	613.1 / 569.0	8.38	2.323	2.498	93.00
PFDoA_2	613.1 / 319.0	8.38	2.263	2.498	90.59
PFTrDA_1	663.0 / 619.0	8.73	2.520	2.498	100.88
PFTrDA_2	663.0 / 168.9	8.73	2.405	2.498	96.29
PFTeDA_1	713.0 / 669.0	9.07	2.641	2.498	105.73
PFTeDA_2	713.0 / 168.9	9.07	2.353	2.498	94.19
PFBS_1	298.7 / 79.9	5.40	2.279	2.218	102.76
PFBS_2	298.9 / 98.8	5.40	2.243	2.218	101.13
PFPeS_1	349.1 / 79.9	6.25	2.373	2.348	101.07
PFPeS_2	349.1 / 98.9	6.25	2.358	2.348	100.44
PFHxS_1	398.7 / 79.9	6.84	2.118	2.279	92.92
PFHxS_2	398.7 / 98.9	6.84	2.175	2.279	95.42
PFHpS_1	449.0 / 79.9	7.32	2.400	2.378	100.92
PFHpS_2	449.0 / 98.9	7.32	2.406	2.378	101.16
PFOS_1	498.9 / 79.9	7.74	2.305	2.318	99.44
PFOS_2	498.9 / 98.9	7.74	2.284	2.318	98.55
PFNS_1	548.8 / 79.9	8.13	2.453	2.398	102.29
PFNS_2	548.8 / 98.9	8.13	2.506	2.398	104.50
PFDS_1	599.0 / 79.9	8.51	2.414	2.408	100.23
PFDS_2	599.0 / 98.9	8.51	2.328	2.408	96.69
PFDoS_1	699.1 / 79.9	9.20	2.273	2.418	94.02
PFDoS_2	699.1 / 98.9	9.20	2.294	2.418	94.88
4:2FTS_1	327.1 / 307.0	5.30	10.024	9.363	107.06
4:2FTS_2	327.1 / 80.9	5.30	9.510	9.363	101.58
6:2FTS_1	427.1 / 407.0	6.61	9.576	9.503	100.77
6:2FTS_2	427.1 / 80.9	6.61	9.977	9.503	104.99
8:2FTS_1	527.1 / 507.0	7.47	9.468	9.593	98.69
8:2FTS_2	527.1 / 80.8	7.47	9.572	9.593	99.78
PFOSA_1	498.1 / 77.9	8.08	2.513	2.508	100.18
PFOSA_2	498.1 / 478.0	8.07	2.423	2.508	96.60
NMeFOSA_1	511.9 / 219.0	10.13	2.716	2.499	108.69
NMeFOSA_2	511.9 / 169.0	10.09	2.613	2.499	104.58
NEtFOSA_1	526.0 / 219.0	10.47	2.566	2.503	102.51
NEtFOSA_2	526.0 / 169.0	10.42	2.580	2.503	103.09
NMeFOSAA_1	570.1 / 419.0	7.66	2.341	2.498	93.72
NMeFOSAA_2	570.1 / 483.0	7.66	1.780	2.498	71.26
NEtFOSAA_1	584.2 / 419.1	7.81	2.382	2.501	95.23
NEtFOSAA_2	584.2 / 526.0	7.81	2.653	2.501	106.08
NMeFOSE	616.1 / 58.9	10.09	24.621	25.012	98.44
NEtFOSE	630.0 / 58.9	10.39	25.512	25.062	101.79
HFPO-DA_1	284.9 / 168.9	5.78	10.422	9.993	104.30
HFPO-DA_2	284.9 / 184.9	5.78	11.270	9.993	112.77
ADONA_1	376.9 / 250.9	6.45	9.883	9.443	104.66
ADONA_2	376.9 / 84.8	6.45	10.382	9.443	109.95
9Cl-PF3ONS_1	530.8 / 351.0	8.01	10.283	9.323	110.30
9Cl-PF3ONS_2	532.8 / 353.0	8.01	9.600	9.323	102.97
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	10.405	9.423	110.42

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	10.513	9.423	111.57
3:3 FTCA_1	241.0 / 177.0	3.74	12.337	12.491	98.77
3:3 FTCA_2	241.0 / 117.0	3.74	11.742	12.491	94.01
5:3 FTCA_1	341.0 / 237.1	5.84	64.646	62.455	103.51
5:3 FTCA_2	341.0 / 217.0	5.84	68.211	62.455	109.22
7:3 FTCA_1	441.0 / 316.9	6.91	63.592	62.455	101.82
7:3 FTCA_2	441.0 / 336.9	6.91	63.045	62.455	100.94
NFDHA_1	295.0 / 201.1	5.42	5.032	4.996	100.73
NFDHA_2	295.0 / 84.9	5.41	5.364	4.996	107.36
PFEESA_1	314.8 / 134.9	5.81	4.938	4.457	110.79
PFEESA_2	314.8 / 82.9	5.81	4.761	4.457	106.82
PFMPA	229.0 / 84.9	3.18	4.910	4.996	98.28
PFMBA	279.0 / 85.1	4.82	4.949	4.996	99.06
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC63 CV	**Injection Vial**	37
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 9:07:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	18.913	19.990	94.61
PFPeA	263.0 / 219.0	4.43	9.535	9.995	95.40
PFHxA_1	313.0 / 269.0	5.52	4.750	4.998	95.03
PFHxA_2	313.0 / 118.9	5.52	4.820	4.998	96.45
PFHpA_1	363.1 / 319.0	6.24	4.734	4.998	94.71
PFHpA_2	363.1 / 169.0	6.24	4.393	4.998	87.90
PFOA_1	413.0 / 369.0	6.77	4.507	5.003	90.08
PFOA_2	413.0 / 169.0	6.70	4.380	5.003	87.56
PFNA_1	463.0 / 419.0	7.22	4.892	4.994	97.96
PFNA_2	463.0 / 219.0	7.21	4.611	4.994	92.33
PFDA_1	512.9 / 469.0	7.62	4.444	4.998	88.92
PFDA_2	512.9 / 219.0	7.62	4.739	4.998	94.82
PFUnA_1	563.1 / 519.0	8.00	4.937	4.998	98.78
PFUnA_2	563.1 / 269.1	8.00	4.923	4.998	98.51
PFDoA_1	613.1 / 569.0	8.37	4.593	4.998	91.89
PFDoA_2	613.1 / 319.0	8.37	4.494	4.998	89.92
PFTrDA_1	663.0 / 619.0	8.72	4.962	4.998	99.29
PFTrDA_2	663.0 / 168.9	8.72	4.757	4.998	95.19
PFTeDA_1	713.0 / 669.0	9.06	4.624	4.998	92.53
PFTeDA_2	713.0 / 168.9	9.06	4.643	4.998	92.90
PFBS_1	298.7 / 79.9	5.39	4.342	4.438	97.84
PFBS_2	298.9 / 98.8	5.39	4.305	4.438	97.01
PFPeS_1	349.1 / 79.9	6.24	4.762	4.698	101.36
PFPeS_2	349.1 / 98.9	6.24	4.677	4.698	99.55
PFHxS_1	398.7 / 79.9	6.83	4.168	4.560	91.40
PFHxS_2	398.7 / 98.9	6.83	4.036	4.560	88.51
PFHpS_1	449.0 / 79.9	7.31	4.044	4.758	84.98
PFHpS_2	449.0 / 98.9	7.31	4.251	4.758	89.35
PFOS_1	498.9 / 79.9	7.73	4.110	4.638	88.61
PFOS_2	498.9 / 98.9	7.72	4.000	4.638	86.25
PFNS_1	548.8 / 79.9	8.12	4.260	4.798	88.79
PFNS_2	548.8 / 98.9	8.12	4.722	4.798	98.41
PFDS_1	599.0 / 79.9	8.50	4.466	4.818	92.69
PFDS_2	599.0 / 98.9	8.50	4.518	4.818	93.78
PFDoS_1	699.1 / 79.9	9.19	4.588	4.838	94.84
PFDoS_2	699.1 / 98.9	9.19	4.582	4.838	94.71
4:2FTS_1	327.1 / 307.0	5.30	18.575	18.731	99.17
4:2FTS_2	327.1 / 80.9	5.30	18.526	18.731	98.91
6:2FTS_1	427.1 / 407.0	6.60	19.597	19.010	103.09
6:2FTS_2	427.1 / 80.9	6.60	19.824	19.010	104.28
8:2FTS_1	527.1 / 507.0	7.46	17.317	19.190	90.24
8:2FTS_2	527.1 / 80.8	7.46	17.569	19.190	91.55
PFOSA_1	498.1 / 77.9	8.07	4.682	5.017	93.32
PFOSA_2	498.1 / 478.0	8.07	5.042	5.017	100.51
NMeFOSA_1	511.9 / 219.0	10.12	5.159	5.000	103.17
NMeFOSA_2	511.9 / 169.0	10.09	4.817	5.000	96.34
NEtFOSA_1	526.0 / 219.0	10.46	4.919	5.007	98.25
NEtFOSA_2	526.0 / 169.0	10.41	4.785	5.007	95.56
NMeFOSAA_1	570.1 / 419.0	7.65	4.487	4.998	89.77
NMeFOSAA_2	570.1 / 483.0	7.65	4.397	4.998	87.98
NEtFOSAA_1	584.2 / 419.1	7.80	5.209	5.003	104.12
NEtFOSAA_2	584.2 / 526.0	7.80	5.151	5.003	102.96
NMeFOSE	616.1 / 58.9	10.08	45.686	50.035	91.31
NEtFOSE	630.0 / 58.9	10.38	47.425	50.135	94.59
HFPO-DA_1	284.9 / 168.9	5.77	18.520	19.990	92.64
HFPO-DA_2	284.9 / 184.9	5.77	18.333	19.990	91.71
ADONA_1	376.9 / 250.9	6.44	18.539	18.891	98.14
ADONA_2	376.9 / 84.8	6.44	18.017	18.891	95.37
9Cl-PF3ONS_1	530.8 / 351.0	8.00	19.608	18.651	105.13
9Cl-PF3ONS_2	532.8 / 353.0	8.00	18.752	18.651	100.54
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	17.665	18.851	93.71

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	18.975	18.851	100.66
3:3 FTCA_1	241.0 / 177.0	3.75	23.540	24.988	94.21
3:3 FTCA_2	241.0 / 117.0	3.75	24.154	24.988	96.66
5:3 FTCA_1	341.0 / 237.1	5.83	125.140	124.938	100.16
5:3 FTCA_2	341.0 / 217.0	5.83	124.009	124.938	99.26
7:3 FTCA_1	441.0 / 316.9	6.90	123.563	124.938	98.90
7:3 FTCA_2	441.0 / 336.9	6.90	124.973	124.938	100.03
NFDHA_1	295.0 / 201.1	5.40	10.000	9.995	100.05
NFDHA_2	295.0 / 84.9	5.40	9.356	9.995	93.61
PFEESA_1	314.8 / 134.9	5.80	9.187	8.916	103.04
PFEESA_2	314.8 / 82.9	5.80	8.895	8.916	99.76
PFMPA	229.0 / 84.9	3.19	9.596	9.995	96.01
PFMBA	279.0 / 85.1	4.82	9.337	9.995	93.41
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC43 ICC	**Injection Vial**	11
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:14:10 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.391	10.000	103.91
13C5-PFPeA	268.3 / 223.0	4.39	5.039	5.000	100.78
13C5-PFHxA	318.0 / 273.0	5.48	2.631	2.500	105.23
13C4-PFHpA	367.1 / 322.0	6.19	2.601	2.500	104.04
13C8-PFOA	421.1 / 376.0	6.72	2.713	2.500	108.54
13C9-PFNA	472.1 / 427.0	7.18	1.302	1.250	104.17
13C6-PFDA	519.1 / 474.1	7.59	1.290	1.250	103.22
13C7-PFUnA	570.0 / 525.1	7.97	1.408	1.250	112.63
13C2-PFDoA	615.1 / 570.0	8.34	1.481	1.250	118.47
13C2-PFTeDA	715.2 / 670.0	9.04	1.461	1.250	116.86
13C3-PFBS	302.1 / 79.9	5.36	2.325	2.330	99.79
13C3-PFHxS	402.1 / 79.9	6.78	2.249	2.370	94.88
13C8-PFOS	507.1 / 79.9	7.70	2.692	2.395	112.41
13C2-4:2FTS	329.1 / 80.9	5.27	5.194	4.690	110.74
13C2-6:2FTS	429.1 / 80.9	6.55	5.029	4.755	105.77
13C2-8:2FTS	529.1 / 80.9	7.43	4.691	4.800	97.74
13C8-PFOSA	506.1 / 77.8	8.05	2.594	2.500	103.78
D3-MeFOSA	515.0 / 219.0	10.12	2.654	2.500	106.15
D5-EtFOSA	531.1 / 219.0	10.45	2.603	2.500	104.10
d3-MeFOSAA	573.2 / 419.0	7.62	4.784	5.000	95.67
d5-EtFOSAA	589.2 / 419.0	7.77	5.596	5.000	111.91
D7-MeFOSE	623.2 / 58.9	10.06	27.331	25.000	109.32
D9-EtFOSE	639.2 / 58.9	10.35	27.020	25.000	108.08
13C3-HFPO-DA	286.9 / 168.9	5.74	9.693	10.000	96.93

Sample Name	MC59 ISC	**Injection Vial**	12
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:36:56 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.95	9.891	10.010	98.81
13C5-PFPeA	268.3 / 223.0	4.41	5.115	5.005	102.19
13C5-PFHxA	318.0 / 273.0	5.50	2.473	2.503	98.80
13C4-PFHpA	367.1 / 322.0	6.22	2.611	2.503	104.30
13C8-PFOA	421.1 / 376.0	6.75	2.595	2.503	103.66
13C9-PFNA	472.1 / 427.0	7.19	1.239	1.251	99.02
13C6-PFDA	519.1 / 474.1	7.60	1.167	1.251	93.27
13C7-PFUnA	570.0 / 525.1	7.98	1.174	1.251	93.83
13C2-PFDoA	615.1 / 570.0	8.36	1.301	1.251	104.02
13C2-PFTeDA	715.2 / 670.0	9.06	1.293	1.251	103.38
13C3-PFBS	302.1 / 79.9	5.38	2.275	2.332	97.57
13C3-PFHxS	402.1 / 79.9	6.81	2.269	2.372	95.66
13C8-PFOS	507.1 / 79.9	7.71	2.469	2.397	103.01
13C2-4:2FTS	329.1 / 80.9	5.29	5.446	4.695	115.99
13C2-6:2FTS	429.1 / 80.9	6.58	4.757	4.760	99.93
13C2-8:2FTS	529.1 / 80.9	7.44	5.137	4.805	106.90
13C8-PFOSA	506.1 / 77.8	8.07	2.579	2.503	103.04
D3-MeFOSA	515.0 / 219.0	10.13	2.547	2.503	101.75
D5-EtFOSA	531.1 / 219.0	10.46	2.538	2.503	101.39
d3-MeFOSAA	573.2 / 419.0	7.64	5.079	5.005	101.47
d5-EtFOSAA	589.2 / 419.0	7.78	5.189	5.005	103.67
D7-MeFOSE	623.2 / 58.9	10.07	27.090	25.025	108.25
D9-EtFOSE	639.2 / 58.9	10.37	25.758	25.025	102.93
13C3-HFPO-DA	286.9 / 168.9	5.76	9.539	10.010	95.30

Sample Name	MC62 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:59:43 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.148	9.993	101.55
13C5-PFPeA	268.3 / 223.0	4.42	5.511	4.996	110.31
13C5-PFHxA	318.0 / 273.0	5.52	2.561	2.498	102.52
13C4-PFHpA	367.1 / 322.0	6.24	2.715	2.498	108.68
13C8-PFOA	421.1 / 376.0	6.78	2.544	2.498	101.83
13C9-PFNA	472.1 / 427.0	7.22	1.380	1.249	110.50
13C6-PFDA	519.1 / 474.1	7.63	1.254	1.249	100.36
13C7-PFUnA	570.0 / 525.1	8.00	1.331	1.249	106.53
13C2-PFDoA	615.1 / 570.0	8.37	1.354	1.249	108.42
13C2-PFTeDA	715.2 / 670.0	9.06	1.253	1.249	100.29
13C3-PFBS	302.1 / 79.9	5.39	2.394	2.328	102.85
13C3-PFHxS	402.1 / 79.9	6.84	2.366	2.368	99.94
13C8-PFOS	507.1 / 79.9	7.74	2.605	2.393	108.87
13C2-4:2FTS	329.1 / 80.9	5.30	5.273	4.687	112.50
13C2-6:2FTS	429.1 / 80.9	6.61	4.715	4.752	99.22
13C2-8:2FTS	529.1 / 80.9	7.47	4.007	4.797	83.54
13C8-PFOSA	506.1 / 77.8	8.09	2.665	2.498	106.67
D3-MeFOSA	515.0 / 219.0	10.12	2.655	2.498	106.29
D5-EtFOSA	531.1 / 219.0	10.46	2.620	2.498	104.89
d3-MeFOSAA	573.2 / 419.0	7.66	5.167	4.996	103.42
d5-EtFOSAA	589.2 / 419.0	7.81	5.738	4.996	114.84
D7-MeFOSE	623.2 / 58.9	10.07	27.040	24.982	108.24
D9-EtFOSE	639.2 / 58.9	10.36	25.593	24.982	102.45
13C3-HFPO-DA	286.9 / 168.9	5.78	11.155	9.993	111.63

Sample Name	MC62 CV	**Injection Vial**	26
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 4:56:13 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.167	9.993	101.74
13C5-PFPeA	268.3 / 223.0	4.42	5.256	4.996	105.21
13C5-PFHxA	318.0 / 273.0	5.51	2.496	2.498	99.91
13C4-PFHpA	367.1 / 322.0	6.24	2.648	2.498	106.01
13C8-PFOA	421.1 / 376.0	6.77	2.576	2.498	103.11
13C9-PFNA	472.1 / 427.0	7.21	1.231	1.249	98.58
13C6-PFDA	519.1 / 474.1	7.62	1.164	1.249	93.19
13C7-PFUnA	570.0 / 525.1	8.00	1.199	1.249	95.99
13C2-PFDoA	615.1 / 570.0	8.37	1.259	1.249	100.83
13C2-PFTeDA	715.2 / 670.0	9.06	1.136	1.249	90.92
13C3-PFBS	302.1 / 79.9	5.39	2.233	2.328	95.90
13C3-PFHxS	402.1 / 79.9	6.83	2.227	2.368	94.03
13C8-PFOS	507.1 / 79.9	7.73	2.478	2.393	103.54
13C2-4:2FTS	329.1 / 80.9	5.30	5.049	4.687	107.73
13C2-6:2FTS	429.1 / 80.9	6.60	4.659	4.752	98.05
13C2-8:2FTS	529.1 / 80.9	7.46	4.576	4.797	95.38
13C8-PFOSA	506.1 / 77.8	8.08	2.472	2.498	98.95
D3-MeFOSA	515.0 / 219.0	10.13	2.446	2.498	97.93
D5-EtFOSA	531.1 / 219.0	10.46	2.507	2.498	100.34
d3-MeFOSAA	573.2 / 419.0	7.65	5.519	4.996	110.48
d5-EtFOSAA	589.2 / 419.0	7.80	5.307	4.996	106.23
D7-MeFOSE	623.2 / 58.9	10.07	25.615	24.982	102.53
D9-EtFOSE	639.2 / 58.9	10.36	24.667	24.982	98.74
13C3-HFPO-DA	286.9 / 168.9	5.78	10.007	9.993	100.14

Sample Name	MC63 CV	**Injection Vial**	37
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 9:07:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.095	9.995	101.00
13C5-PFPeA	268.3 / 223.0	4.42	5.122	4.998	102.49
13C5-PFHxA	318.0 / 273.0	5.50	2.457	2.499	98.31
13C4-PFHpA	367.1 / 322.0	6.23	2.594	2.499	103.81
13C8-PFOA	421.1 / 376.0	6.76	2.665	2.499	106.64
13C9-PFNA	472.1 / 427.0	7.20	1.192	1.249	95.41
13C6-PFDA	519.1 / 474.1	7.61	1.214	1.249	97.22
13C7-PFUnA	570.0 / 525.1	7.99	1.099	1.249	88.00
13C2-PFDoA	615.1 / 570.0	8.36	1.254	1.249	100.37
13C2-PFTeDA	715.2 / 670.0	9.05	1.233	1.249	98.70
13C3-PFBS	302.1 / 79.9	5.38	2.391	2.329	102.66
13C3-PFHxS	402.1 / 79.9	6.82	2.494	2.369	105.30
13C8-PFOS	507.1 / 79.9	7.72	2.532	2.394	105.75
13C2-4:2FTS	329.1 / 80.9	5.29	4.557	4.688	97.21
13C2-6:2FTS	429.1 / 80.9	6.59	4.682	4.753	98.51
13C2-8:2FTS	529.1 / 80.9	7.45	5.125	4.798	106.81
13C8-PFOSA	506.1 / 77.8	8.06	2.441	2.499	97.66
D3-MeFOSA	515.0 / 219.0	10.11	2.309	2.499	92.38
D5-EtFOSA	531.1 / 219.0	10.45	2.420	2.499	96.84
d3-MeFOSAA	573.2 / 419.0	7.64	5.195	4.998	103.95
d5-EtFOSAA	589.2 / 419.0	7.79	4.972	4.998	99.49
D7-MeFOSE	623.2 / 58.9	10.06	25.015	24.988	100.11
D9-EtFOSE	639.2 / 58.9	10.36	24.392	24.988	97.62
13C3-HFPO-DA	286.9 / 168.9	5.77	9.999	9.995	100.04

BATTELLE

PFAS Sample Quant Report

Created with Analyst Reporter
Printed: 25/03/2024 2:56:32 PM

Sample Name	C2685-FS(0)	**Injection Vial**	19
Sample ID	WGNA-FB-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 2:16:32 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.93	13C4-PFBA	465606.49	40.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	173557.12	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	354163.28	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.21	13C4-PFHpA	354163.28	10.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	385784.92	10.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.74	13C8-PFOA	385784.92	10.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	175235.25	5.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.19	13C9-PFNA	175235.25	5.000	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	151561.63	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	151561.63	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	53791.85	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	53791.85	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	56565.55	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	56565.55	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	336399.80	9.320	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.37	13C3-PFBS	336399.80	9.320	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.81	13C3-PFHxS	374546.34	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.81	13C3-PFHxS	374546.34	9.480	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.81	13C3-PFHxS	374546.34	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.81	13C3-PFHxS	374546.34	9.480	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	281814.09	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	116077.11	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	264025.58	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	264025.58	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	122502.24	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	122502.24	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	31706.79	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	31706.79	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	168802.74	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	168802.74	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	39274.69	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	39274.69	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	43108.27	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	43108.27	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	104027.50	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	104027.50	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	86754.30	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	86754.30	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	496619.04	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	505639.58	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	7.98	1266.68	0.029	196.5	5.75	13C3-HFPO-DA	319549.26	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.00	402.07	0.028	117.0	5.75	13C3-HFPO-DA	319549.26	40.000	9Cl-PF3ONS	0.317	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	319549.26	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	173557.12	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	173557.12	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	186970.90	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	173557.12	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	173557.12	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2686-FS(0)	**Injection Vial**	20
Sample ID	WGNA-SW-36A-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 2:39:20 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.91	23888.50	3.320	177.5	1.90	13C4-PFBA	257484.03	40.000				
PFPeA	263.0 / 219.0	4.40	56978.62	7.101	161.7	4.39	13C5-PFPeA	109248.37	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.50	78370.08	7.345	200.4	5.48	13C5-PFHxA	105720.15	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.49	4907.59	7.239	196.0	5.48	13C5-PFHxA	105720.15	10.000	PFHxA	0.063	0.063	✓
PFHpA_1	363.1 / 319.0	6.22	56733.59	2.564	175.3	6.21	13C4-PFHpA	222198.41	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	1217.26	2.584	197.9	6.21	13C4-PFHpA	222198.41	10.000	PFHpA	0.022	0.021	✓
PFOA_1	413.0 / 369.0	6.75	208034.87	9.019	374.7	6.73	13C8-PFOA	259875.26	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.73	19778.59	7.745	330.5	6.73	13C8-PFOA	259875.26	10.000	PFOA	0.095	0.111	✓
PFNA_1	463.0 / 419.0	7.19	12234.02	1.102	96.2	7.18	13C9-PFNA	102292.10	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.20	5790.19	0.946	219.2	7.18	13C9-PFNA	102292.10	5.000	PFNA	0.473	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	104846.73	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	104846.73	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	34124.26	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	34124.26	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	28840.15	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	28840.15	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.37	56153.96	5.514	270.7	5.36	13C3-PFBS	202793.69	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	20909.83	4.625	492.9	5.36	13C3-PFBS	202793.69	9.320	PFBS	0.372	0.444	✓
PFPeS_1	349.1 / 79.9	6.22	28631.90	1.855	209.2	6.80	13C3-PFHxS	280665.02	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.22	12621.80	1.925	223.7	6.80	13C3-PFHxS	280665.02	9.480	PFPeS	0.441	0.424	✓
PFHxS_1	398.7 / 79.9	6.81	348533.87	13.902	600.3	6.80	13C3-PFHxS	280665.02	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	120676.48	13.870	841.2	6.80	13C3-PFHxS	280665.02	9.480	PFHxS	0.346	0.347	✓
PFHpS_1	449.0 / 79.9	7.29	12486.80	0.456	60.3	7.70	13C8-PFOS	191065.53	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	4859.13	0.594	109.6	7.70	13C8-PFOS	191065.53	9.580	PFHpS	0.389	0.299	✓
PFOS_1	498.9 / 79.9	7.71	886738.78	34.167	489.7	7.70	13C8-PFOS	191065.53	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	163552.40	30.657	841.8	7.70	13C8-PFOS	191065.53	9.580	PFOS	0.184	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	191065.53	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	191065.53	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	191065.53	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	191065.53	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	59172.33	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	173888.00	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	173888.00	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.57	23739.99	1.970	20823.2	6.57	13C2-6:2FTS	82015.99	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.57	10900.85	2.379	130.0	6.57	13C2-6:2FTS	82015.99	19.020	6:2FTS	0.459	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	17455.11	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	17455.11	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	100612.13	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	100612.13	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	24334.34	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	24334.34	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	26576.03	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	26576.03	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	65003.59	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	65003.59	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	56279.08	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	56279.08	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	235045.50	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	238141.11	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	186282.69	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	2834.29	0.113	499.4	5.74	13C3-HFPO-DA	186282.69	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	1108.30	0.129	166.0	5.74	13C3-HFPO-DA	186282.69	40.000	11Cl-PF3OUdS	0.391	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	109248.37	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	109248.37	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	105720.15	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	109248.37	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	109248.37	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2687-FS(0)	**Injection Vial**	21
Sample ID	WGNA-SW-36-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:02:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	62815.15	3.844	256.4	1.93	13C4-PFBA	584713.18	40.000				
PFPeA	263.0 / 219.0	4.43	141328.91	7.751	242.6	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.52	180393.91	7.554	300.7	5.51	13C5-PFHxA	236611.01	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.52	12603.58	8.307	308.0	5.51	13C5-PFHxA	236611.01	10.000	PFHxA	0.070	0.063	✓
PFHpA_1	363.1 / 319.0	6.25	145918.53	3.060	243.4	6.24	13C4-PFHpA	478991.96	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	2378.59	2.342	101.5	6.24	13C4-PFHpA	478991.96	10.000	PFHpA	0.016	0.021	✓
PFOA_1	413.0 / 369.0	6.78	476909.92	9.746	430.9	6.76	13C8-PFOA	551289.47	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	42899.95	7.918	426.3	6.76	13C8-PFOA	551289.47	10.000	PFOA	0.090	0.111	✓
PFNA_1	463.0 / 419.0	7.22	28801.44	1.053	227.1	7.21	13C9-PFNA	251968.90	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	10919.82	0.724	310.5	7.21	13C9-PFNA	251968.90	5.000	PFNA	0.379	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	217963.43	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	217963.43	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	76297.62	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	76297.62	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	41678.22	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	41678.22	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.40	114200.52	5.268	431.8	5.39	13C3-PFBS	431630.98	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	52848.43	5.492	575.7	5.39	13C3-PFBS	431630.98	9.320	PFBS	0.463	0.444	✓
PFPeS_1	349.1 / 79.9	6.25	71730.86	2.431	291.9	6.83	13C3-PFHxS	536470.01	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.25	29997.20	2.394	262.0	6.83	13C3-PFHxS	536470.01	9.480	PFPeS	0.418	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	900295.08	18.787	1132.3	6.83	13C3-PFHxS	536470.01	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	290780.22	17.484	1298.3	6.83	13C3-PFHxS	536470.01	9.480	PFHxS	0.323	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	42087.56	0.764	199.9	7.72	13C8-PFOS	384778.46	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	12768.59	0.774	233.6	7.72	13C8-PFOS	384778.46	9.580	PFHpS	0.303	0.299	✓
PFOS_1	498.9 / 79.9	7.72	1564637.47	29.936	551.3	7.72	13C8-PFOS	384778.46	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	296845.11	27.630	667.7	7.72	13C8-PFOS	384778.46	9.580	PFOS	0.190	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	363665.29	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	363665.29	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.61	68651.97	2.730	2974.0	6.60	13C2-6:2FTS	171165.34	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	26498.70	2.771	248.2	6.60	13C2-6:2FTS	171165.34	19.020	6:2FTS	0.386	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40833.32	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40833.32	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	231836.76	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	231836.76	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	60711.02	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	60711.02	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	57808.50	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	57808.50	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	151164.06	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	151164.06	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	110415.01	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	110415.01	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	473882.97	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	405604.72	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.76	1588.60	0.026	572.4	5.77	13C3-HFPO-DA	450232.62	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.76	681.10	0.033	70.3	5.77	13C3-HFPO-DA	450232.62	40.000	11Cl-PF3OUdS	0.429	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2687MS-FS(0)	**Injection Vial**	22
Sample ID	WGNA-SW-36-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:24:59 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.91	813300.16	47.199	608.0	1.90	13C4-PFBA	616530.40	40.000				
PFPeA	263.0 / 219.0	4.41	624830.80	30.375	559.0	4.40	13C5-PFPeA	280057.37	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	500419.97	18.323	435.8	5.50	13C5-PFHxA	270595.55	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	28311.91	16.317	447.4	5.50	13C5-PFHxA	270595.55	10.000	PFHxA	0.057	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	700225.13	14.333	425.5	6.22	13C4-PFHpA	490643.10	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	15731.28	15.121	869.3	6.22	13C4-PFHpA	490643.10	10.000	PFHpA	0.023	0.021	✓
PFOA_1	413.0 / 369.0	6.77	1277904.75	23.106	712.3	6.76	13C8-PFOA	623092.55	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.77	91522.61	14.947	1143.2	6.76	13C8-PFOA	623092.55	10.000	PFOA	0.072	0.111	✓
PFNA_1	463.0 / 419.0	7.22	384970.10	13.431	736.3	7.21	13C9-PFNA	264093.99	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	162859.30	10.308	1666.4	7.21	13C9-PFNA	264093.99	5.000	PFNA	0.423	0.551	✓
PFDA_1	512.9 / 469.0	7.63	359761.63	11.572	840.7	7.61	13C6-PFDA	224993.08	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.63	19977.83	12.264	18561767.8	7.61	13C6-PFDA	224993.08	5.000	PFDA	0.056	0.053	✓
PFUnA_1	563.1 / 519.0	8.01	218149.49	11.242	693.0	8.00	13C7-PFUnA	77905.34	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	8.01	9304.63	9.958	822.4	8.00	13C7-PFUnA	77905.34	5.000	PFUnA	0.043	0.048	✓
PFDoA_1	613.1 / 569.0	8.38	127197.95	10.702	642.0	8.37	13C2-PFDoA	137774.84	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	8.38	39312.99	11.046	1865.5	8.37	13C2-PFDoA	137774.84	5.000	PFDoA	0.309	0.300	✓
PFTrDA_1	663.0 / 619.0	8.73	273712.46	8.807	716.5	8.37	13C2-PFDoA	137774.84	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	8.73	13444.63	7.178	1426.0	8.37	13C2-PFDoA	137774.84	5.000	PFTrDA	0.049	0.060	✓
PFTeDA_1	713.0 / 669.0	9.07	163465.12	13.660	740.6	9.06	13C2-PFTeDA	36440.61	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.07	7817.42	11.423	527.3	9.06	13C2-PFTeDA	36440.61	5.000	PFTeDA	0.048	0.057	✓
PFBS_1	298.7 / 79.9	5.39	350573.78	14.663	590.7	5.38	13C3-PFBS	476099.38	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	152378.01	14.356	889.5	5.38	13C3-PFBS	476099.38	9.320	PFBS	0.435	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	397171.66	12.250	683.3	6.82	13C3-PFHxS	589570.62	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	157717.39	11.453	804.8	6.82	13C3-PFHxS	589570.62	9.480	PFPeS	0.397	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	1421540.44	26.992	947.7	6.82	13C3-PFHxS	589570.62	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	479457.46	26.233	1548.8	6.82	13C3-PFHxS	589570.62	9.480	PFHxS	0.337	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	641942.46	10.749	877.6	7.72	13C8-PFOS	417120.64	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	190649.79	10.667	1354.6	7.72	13C8-PFOS	417120.64	9.580	PFHpS	0.297	0.299	✓
PFOS_1	498.9 / 79.9	7.73	2246742.17	39.653	605.8	7.72	13C8-PFOS	417120.64	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	415042.02	35.636	690.6	7.72	13C8-PFOS	417120.64	9.580	PFOS	0.185	0.206	✓
PFNS_1	548.8 / 79.9	8.13	290463.18	10.255	976.1	7.72	13C8-PFOS	417120.64	9.580	PFNS			
PFNS_2	548.8 / 98.9	8.13	58177.09	10.304	3646.8	7.72	13C8-PFOS	417120.64	9.580	PFNS	0.200	0.200	✓
PFDS_1	599.0 / 79.9	8.51	346063.35	8.448	1232.1	7.72	13C8-PFOS	417120.64	9.580	PFDS			
PFDS_2	599.0 / 98.9	8.51	100197.69	8.769	1336.6	7.72	13C8-PFOS	417120.64	9.580	PFDS	0.290	0.279	✓
PFDoS_1	699.1 / 79.9	9.20	186032.89	6.607	759.5	8.37	13C2-PFDoA	137774.84	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	9.20	55936.75	6.621	1075.1	8.37	13C2-PFDoA	137774.84	5.000	PFDoS	0.301	0.300	✓
4:2FTS_1	327.1 / 307.0	5.29	296738.76	42.862	2640.4	5.28	13C2-4:2FTS	360289.27	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.29	863093.36	42.176	791.9	5.28	13C2-4:2FTS	360289.27	18.760	4:2FTS	2.909	2.959	✓
6:2FTS_1	427.1 / 407.0	6.60	1241801.02	48.693	4246.5	6.59	13C2-6:2FTS	173585.56	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.60	472540.55	48.730	954.9	6.59	13C2-6:2FTS	173585.56	19.020	6:2FTS	0.381	0.380	✓
8:2FTS_1	527.1 / 507.0	7.46	1058874.61	43.182	3519.6	7.45	13C2-8:2FTS	43268.56	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.46	125590.45	48.539	405.3	7.45	13C2-8:2FTS	43268.56	19.200	8:2FTS	0.119	0.105	✓
PFOSA_1	498.1 / 77.9	8.08	388971.06	11.741	1913.9	8.07	13C8-PFOSA	268122.13	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	8.07	3486.34	17.131	951.3	8.07	13C8-PFOSA	268122.13	10.000	PFOSA	0.009	0.006	✓
NMeFOSA_1	511.9 / 219.0	10.13	19204.48	11.602	956.2	10.13	D3-MeFOSA	66195.92	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.13	12449.66	7.902	563.1	10.13	D3-MeFOSA	66195.92	10.000	NMeFOSA	0.648	0.952	✓
NEtFOSA_1	526.0 / 219.0	10.47	16699.63	11.301	726.6	10.46	D5-EtFOSA	63589.48	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.47	12878.08	9.515	567.7	10.46	D5-EtFOSA	63589.48	10.000	NEtFOSA	0.771	0.917	✓
NMeFOSAA_1	570.1 / 419.0	7.66	86418.38	11.629	8721.6	7.65	d3-MeFOSAA	160785.08	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	7.66	7224.10	10.185	5189.4	7.65	d3-MeFOSAA	160785.08	20.000	NMeFOSAA	0.084	0.095	✓
NEtFOSAA_1	584.2 / 419.1	7.80	63228.08	10.927	4823365.5	7.79	d5-EtFOSAA	116059.48	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	7.81	97085.89	11.619	22279.2	7.79	d5-EtFOSAA	116059.48	20.000	NEtFOSAA	1.536	1.455	✓
NMeFOSE	616.1 / 58.9	10.10	464604.04	107.452	1872.4	10.07	D7-MeFOSE	495540.39	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.39	401463.81	122.955	875.9	10.37	D9-EtFOSE	434704.81	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.77	611237.21	41.399	3215.3	5.76	13C3-HFPO-DA	489666.98	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.77	106023.03	44.537	2212.9	5.76	13C3-HFPO-DA	489666.98	40.000	HFPO-DA	0.174	0.162	✓
ADONA_1	376.9 / 250.9	6.44	3996909.89	39.967	3664.4	5.76	13C3-HFPO-DA	489666.98	40.000	ADONA			
ADONA_2	376.9 / 84.8	6.44	48065.14	37.981	4225.1	5.76	13C3-HFPO-DA	489666.98	40.000	ADONA	0.012	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.00	2761979.48	40.937	2459.7	5.76	13C3-HFPO-DA	489666.98	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.00	884714.29	39.892	2417.2	5.76	13C3-HFPO-DA	489666.98	40.000	9Cl-PF3ONS	0.320	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.76	1899254.63	28.688	3713.7	5.76	13C3-HFPO-DA	489666.98	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	643807.81	28.613	3945.1	5.76	13C3-HFPO-DA	489666.98	40.000	11Cl-PF3OUdS	0.339	0.340	✓
3:3 FTCA_1	241.0 / 177.0	3.71	80240.59	56.909	1911.9	4.40	13C5-PFPeA	280057.37	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	3.70	3574.53	51.414	248.4	4.40	13C5-PFPeA	280057.37	20.000	3:3 FTCA	0.045	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.82	1440950.88	265.765	1764.0	5.50	13C5-PFHxA	270595.55	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.82	664236.06	278.693	1702.2	5.50	13C5-PFHxA	270595.55	10.000	5:3 FTCA	0.461	0.440	✓
7:3 FTCA_1	441.0 / 316.9	6.90	876105.04	304.219	2743.7	5.50	13C5-PFHxA	270595.55	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	6.90	1672882.27	296.798	2046.0	5.50	13C5-PFHxA	270595.55	10.000	7:3 FTCA	1.910	1.955	✓
NFDHA_1	295.0 / 201.1	5.40	61055.65	24.581	1309.2	5.50	13C5-PFHxA	270595.55	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	5.40	45400.46	24.854	522.5	5.50	13C5-PFHxA	270595.55	10.000	NFDHA	0.744	0.736	✓
PFEESA_1	314.8 / 134.9	5.79	2006957.36	20.419	2648.6	5.50	13C5-PFHxA	270595.55	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	5.79	91655.26	19.581	605.7	5.50	13C5-PFHxA	270595.55	10.000	PFEESA	0.046	0.048	✓
PFMPA	229.0 / 84.9	3.13	332841.91	20.653	2070.4	4.40	13C5-PFPeA	280057.37	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.81	387560.65	20.996	1314.7	4.40	13C5-PFPeA	280057.37	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2687MSD-FS(0)	**Injection Vial**	23
Sample ID	WGNA-SW-36-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:47:47 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	946103.71	49.278	654.3	1.93	13C4-PFBA	686944.96	40.000				
PFPeA	263.0 / 219.0	4.42	668293.28	30.321	590.2	4.41	13C5-PFPeA	300074.47	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	507754.49	18.348	465.4	5.50	13C5-PFHxA	274199.94	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	31049.08	17.659	500.3	5.50	13C5-PFHxA	274199.94	10.000	PFHxA	0.061	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	808054.98	15.521	463.0	6.22	13C4-PFHpA	522862.54	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	18843.82	16.996	904.1	6.22	13C4-PFHpA	522862.54	10.000	PFHpA	0.023	0.021	✓
PFOA_1	413.0 / 369.0	6.77	1275157.80	22.366	644.4	6.76	13C8-PFOA	642311.91	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.77	99510.18	15.765	972.7	6.76	13C8-PFOA	642311.91	10.000	PFOA	0.078	0.111	✓
PFNA_1	463.0 / 419.0	7.22	411947.80	13.306	748.2	7.20	13C9-PFNA	285259.60	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	167659.82	9.825	1147.8	7.20	13C9-PFNA	285259.60	5.000	PFNA	0.407	0.551	✓
PFDA_1	512.9 / 469.0	7.62	401643.16	12.056	876.2	7.61	13C6-PFDA	241096.88	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.62	22954.92	13.151	10213.5	7.61	13C6-PFDA	241096.88	5.000	PFDA	0.057	0.053	✓
PFUnA_1	563.1 / 519.0	8.00	254754.79	12.565	840.8	7.99	13C7-PFUnA	81395.87	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	8.00	12600.14	12.907	2125.6	7.99	13C7-PFUnA	81395.87	5.000	PFUnA	0.050	0.048	✓
PFDoA_1	613.1 / 569.0	8.37	143351.60	11.679	759.3	8.36	13C2-PFDoA	142289.21	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	8.37	45027.67	12.251	1736.4	8.36	13C2-PFDoA	142289.21	5.000	PFDoA	0.314	0.300	✓
PFTrDA_1	663.0 / 619.0	8.73	300928.46	9.376	804.3	8.36	13C2-PFDoA	142289.21	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	8.73	15634.84	8.082	2977.5	8.36	13C2-PFDoA	142289.21	5.000	PFTrDA	0.052	0.060	✓
PFTeDA_1	713.0 / 669.0	9.06	161360.19	11.220	695.4	9.06	13C2-PFTeDA	43793.64	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.06	8565.93	10.415	682.3	9.06	13C2-PFTeDA	43793.64	5.000	PFTeDA	0.053	0.057	✓
PFBS_1	298.7 / 79.9	5.39	380640.63	15.387	648.1	5.38	13C3-PFBS	492582.95	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	167176.34	15.223	938.6	5.38	13C3-PFBS	492582.95	9.320	PFBS	0.439	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	419323.67	12.834	722.2	6.82	13C3-PFHxS	594135.25	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	176623.35	12.727	882.6	6.82	13C3-PFHxS	594135.25	9.480	PFPeS	0.421	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	1573966.75	29.657	1013.0	6.82	13C3-PFHxS	594135.25	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	517897.82	28.118	1574.0	6.82	13C3-PFHxS	594135.25	9.480	PFHxS	0.329	0.347	✓
PFHpS_1	449.0 / 79.9	7.30	722144.22	11.239	831.8	7.71	13C8-PFOS	448798.70	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	205151.34	10.668	1001.9	7.71	13C8-PFOS	448798.70	9.580	PFHpS	0.284	0.299	✓
PFOS_1	498.9 / 79.9	7.72	2393303.47	39.258	867.9	7.71	13C8-PFOS	448798.70	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	442813.46	35.337	1234.7	7.71	13C8-PFOS	448798.70	9.580	PFOS	0.185	0.206	✓
PFNS_1	548.8 / 79.9	8.12	294154.98	9.652	1067.6	7.71	13C8-PFOS	448798.70	9.580	PFNS			
PFNS_2	548.8 / 98.9	8.12	60447.98	9.951	1921.9	7.71	13C8-PFOS	448798.70	9.580	PFNS	0.206	0.200	✓
PFDS_1	599.0 / 79.9	8.50	401218.28	9.103	1234.0	7.71	13C8-PFOS	448798.70	9.580	PFDS			
PFDS_2	599.0 / 98.9	8.50	108214.14	8.802	1253.0	7.71	13C8-PFOS	448798.70	9.580	PFDS	0.270	0.279	✓
PFDoS_1	699.1 / 79.9	9.19	212024.82	7.291	900.4	8.36	13C2-PFDoA	142289.21	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	9.19	64515.26	7.395	1321.3	8.36	13C2-PFDoA	142289.21	5.000	PFDoS	0.304	0.300	✓
4:2FTS_1	327.1 / 307.0	5.29	317674.56	46.538	2848.1	5.28	13C2-4:2FTS	355242.84	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.29	936818.02	46.429	768.8	5.28	13C2-4:2FTS	355242.84	18.760	4:2FTS	2.949	2.959	✓
6:2FTS_1	427.1 / 407.0	6.60	1358744.21	53.095	3445.5	6.59	13C2-6:2FTS	174186.72	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.60	495003.53	50.870	1204.8	6.59	13C2-6:2FTS	174186.72	19.020	6:2FTS	0.364	0.380	✓
8:2FTS_1	527.1 / 507.0	7.45	1153799.39	50.506	3142.6	7.45	13C2-8:2FTS	40310.36	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.45	131955.36	54.742	429.9	7.45	13C2-8:2FTS	40310.36	19.200	8:2FTS	0.114	0.105	✓
PFOSA_1	498.1 / 77.9	8.07	428053.37	11.767	1956.3	8.07	13C8-PFOSA	294399.82	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	8.07	3847.99	17.220	213.8	8.07	13C8-PFOSA	294399.82	10.000	PFOSA	0.009	0.006	✓
NMeFOSA_1	511.9 / 219.0	10.13	21622.34	12.039	760.2	10.12	D3-MeFOSA	71820.84	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.12	14314.83	8.374	689.2	10.12	D3-MeFOSA	71820.84	10.000	NMeFOSA	0.662	0.952	✓
NEtFOSA_1	526.0 / 219.0	10.46	16446.17	10.553	622.6	10.45	D5-EtFOSA	67059.58	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.46	13035.86	9.133	581.7	10.45	D5-EtFOSA	67059.58	10.000	NEtFOSA	0.793	0.917	✓
NMeFOSAA_1	570.1 / 419.0	7.65	85590.12	11.134	35416.1	7.64	d3-MeFOSAA	166326.31	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	7.65	7728.29	10.533	728.5	7.64	d3-MeFOSAA	166326.31	20.000	NMeFOSAA	0.090	0.095	✓
NEtFOSAA_1	584.2 / 419.1	7.79	69885.52	10.850	39564.8	7.78	d5-EtFOSAA	129191.28	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	7.80	102377.85	11.007	39140.2	7.78	d5-EtFOSAA	129191.28	20.000	NEtFOSAA	1.465	1.455	✓
NMeFOSE	616.1 / 58.9	10.09	540120.50	113.223	1585.2	10.06	D7-MeFOSE	546718.27	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.38	440028.71	124.653	758.6	10.36	D9-EtFOSE	469973.38	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.77	693751.82	45.080	3217.5	5.76	13C3-HFPO-DA	510390.58	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.77	118018.64	47.563	1779.8	5.76	13C3-HFPO-DA	510390.58	40.000	HFPO-DA	0.170	0.162	✓
ADONA_1	376.9 / 250.9	6.44	4555903.00	43.707	3604.5	5.76	13C3-HFPO-DA	510390.58	40.000	ADONA			
ADONA_2	376.9 / 84.8	6.44	62052.72	47.042	2309.1	5.76	13C3-HFPO-DA	510390.58	40.000	ADONA	0.014	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	7.99	2848175.47	40.501	3039.6	5.76	13C3-HFPO-DA	510390.58	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	7.99	919788.13	39.790	2280.3	5.76	13C3-HFPO-DA	510390.58	40.000	9Cl-PF3ONS	0.323	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	2132500.12	30.904	2562.4	5.76	13C3-HFPO-DA	510390.58	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	753179.69	32.115	3114.5	5.76	13C3-HFPO-DA	510390.58	40.000	11Cl-PF3OUdS	0.353	0.340	✓
3:3 FTCA_1	241.0 / 177.0	3.73	88044.00	58.278	1824.0	4.41	13C5-PFPeA	300074.47	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	3.73	4404.28	59.123	340.2	4.41	13C5-PFPeA	300074.47	20.000	3:3 FTCA	0.050	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.82	1641186.36	298.717	2025.4	5.50	13C5-PFHxA	274199.94	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.82	732040.35	303.104	1851.4	5.50	13C5-PFHxA	274199.94	10.000	5:3 FTCA	0.446	0.440	✓
7:3 FTCA_1	441.0 / 316.9	6.90	936761.95	321.005	2013.7	5.50	13C5-PFHxA	274199.94	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	6.90	1812007.75	317.256	1668.9	5.50	13C5-PFHxA	274199.94	10.000	7:3 FTCA	1.934	1.955	✓
NFDHA_1	295.0 / 201.1	5.40	61280.22	24.347	1438.8	5.50	13C5-PFHxA	274199.94	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	5.40	46346.36	25.038	544.9	5.50	13C5-PFHxA	274199.94	10.000	NFDHA	0.756	0.736	✓
PFEESA_1	314.8 / 134.9	5.79	2205804.44	22.147	2379.1	5.50	13C5-PFHxA	274199.94	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	5.79	98395.14	20.744	881.9	5.50	13C5-PFHxA	274199.94	10.000	PFEESA	0.045	0.048	✓
PFMPA	229.0 / 84.9	3.17	378547.37	21.923	1835.2	4.41	13C5-PFPeA	300074.47	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.82	427193.96	21.599	1589.4	4.41	13C5-PFPeA	300074.47	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2688-FS(0)	**Injection Vial**	24
Sample ID	WGNA-SW-34A-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 4:10:33 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.92	80905.14	4.034	272.8	1.91	13C4-PFBA	717578.26	40.000				
PFPeA	263.0 / 219.0	4.41	225751.80	9.229	259.6	4.40	13C5-PFPeA	333044.39	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.50	276041.36	9.088	315.3	5.49	13C5-PFHxA	300938.27	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.50	15941.82	8.261	422.0	5.49	13C5-PFHxA	300938.27	10.000	PFHxA	0.058	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	196866.54	3.260	276.3	6.21	13C4-PFHpA	606467.44	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	5967.29	4.640	399.2	6.21	13C4-PFHpA	606467.44	10.000	PFHpA	0.030	0.021	✓
PFOA_1	413.0 / 369.0	6.75	779372.20	12.062	449.9	6.74	13C8-PFOA	727941.19	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.75	72962.39	10.199	589.5	6.74	13C8-PFOA	727941.19	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.20	47512.85	1.415	286.9	7.19	13C9-PFNA	309464.43	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.20	17350.22	0.937	449.4	7.19	13C9-PFNA	309464.43	5.000	PFNA	0.365	0.551	✓
PFDA_1	512.9 / 469.0	7.61	10200.40	0.252	90.7	7.59	13C6-PFDA	293407.11	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.60	487.97	0.230	1162.3	7.59	13C6-PFDA	293407.11	5.000	PFDA	0.048	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86943.72	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86943.72	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	45926.37	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	45926.37	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.38	155117.21	5.672	413.8	5.37	13C3-PFBS	544606.81	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.38	63980.80	5.270	622.8	5.37	13C3-PFBS	544606.81	9.320	PFBS	0.413	0.444	✓
PFPeS_1	349.1 / 79.9	6.23	129657.37	3.356	396.2	6.80	13C3-PFHxS	702585.63	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	54391.15	3.314	411.6	6.80	13C3-PFHxS	702585.63	9.480	PFPeS	0.420	0.424	✓
PFHxS_1	398.7 / 79.9	6.81	1457574.71	23.225	1191.9	6.80	13C3-PFHxS	702585.63	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	477686.57	21.932	1729.3	6.80	13C3-PFHxS	702585.63	9.480	PFHxS	0.328	0.347	✓
PFHpS_1	449.0 / 79.9	7.29	69016.77	0.973	177.2	7.70	13C8-PFOS	495369.54	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	20311.01	0.957	350.2	7.70	13C8-PFOS	495369.54	9.580	PFHpS	0.294	0.299	✓
PFOS_1	498.9 / 79.9	7.71	3125820.54	46.454	821.5	7.70	13C8-PFOS	495369.54	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	588092.59	42.518	1176.2	7.70	13C8-PFOS	495369.54	9.580	PFOS	0.188	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	495369.54	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	495369.54	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	495369.54	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	495369.54	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	153802.65	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	442578.23	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	442578.23	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.58	121416.75	3.886	1187.9	6.57	13C2-6:2FTS	212649.72	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.58	45932.32	3.867	295.5	6.57	13C2-6:2FTS	212649.72	19.020	6:2FTS	0.378	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	52058.72	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	52058.72	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	323143.88	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	323143.88	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	85820.01	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	85820.01	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	88508.68	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	88508.68	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	176067.80	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	176067.80	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	143605.56	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	143605.56	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	639265.84	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	594458.41	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.75	13C3-HFPO-DA	561978.37	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	1031.68	0.014	125.2	5.75	13C3-HFPO-DA	561978.37	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	441.12	0.017	73.3	5.75	13C3-HFPO-DA	561978.37	40.000	11Cl-PF3OUdS	0.428	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	333044.39	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	333044.39	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.81	1489.65	0.247	33.7	5.49	13C5-PFHxA	300938.27	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.81	639.00	0.241	26.1	5.49	13C5-PFHxA	300938.27	10.000	5:3 FTCA	0.429	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.49	13C5-PFHxA	300938.27	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	333044.39	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	333044.39	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MB88 IB	**Injection Vial**	27
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 5:19:01 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.94	13C4-PFBA	1064270.15	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	404131.81	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	814331.56	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	814331.56	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	999408.46	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	999408.46	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	425797.30	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	425797.30	1.250	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	374060.01	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	374060.01	1.250	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	135911.65	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	135911.65	1.250	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	172260.40	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	172260.40	1.250	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.40	13C3-PFBS	767405.62	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.40	13C3-PFBS	767405.62	2.330	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	869260.37	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	869260.37	2.370	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	869260.37	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	869260.37	2.370	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	629371.78	2.395	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	304692.15	1.250	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	591839.73	4.690	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	591839.73	4.690	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	250701.74	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	250701.74	4.755	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	65081.17	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	65081.17	4.800	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	410666.24	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	410666.24	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	139033.35	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	139033.35	2.500	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	164553.21	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	164553.21	2.500	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	250635.83	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	250635.83	5.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	211834.46	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	211834.46	5.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	1239504.93	25.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	1462414.74	25.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	700175.68	10.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	404131.81	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	404131.81	5.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	463761.08	2.500	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	404131.81	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	404131.81	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2689-FS(0)	**Injection Vial**	28
Sample ID	WGNA-SW-42-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 5:41:50 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.92	124298.61	6.993	414.5	1.91	13C4-PFBA	635947.82	40.000				
PFPeA	263.0 / 219.0	4.42	347678.53	16.941	428.8	4.41	13C5-PFPeA	279404.56	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	511464.60	19.610	416.9	5.50	13C5-PFHxA	258416.91	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	31355.16	18.922	645.3	5.50	13C5-PFHxA	258416.91	10.000	PFHxA	0.061	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	382330.37	7.156	379.1	6.22	13C4-PFHpA	536604.07	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	7948.81	6.986	2619.1	6.22	13C4-PFHpA	536604.07	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.77	2277997.27	38.219	704.3	6.76	13C8-PFOA	671510.45	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.75	208527.07	31.599	992.8	6.76	13C8-PFOA	671510.45	10.000	PFOA	0.092	0.111	✓
PFNA_1	463.0 / 419.0	7.22	55823.27	1.879	253.1	7.21	13C9-PFNA	273746.09	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	25684.04	1.568	746.4	7.21	13C9-PFNA	273746.09	5.000	PFNA	0.460	0.551	✓
PFDA_1	512.9 / 469.0	7.63	11637.94	0.365	63.5	7.61	13C6-PFDA	230666.72	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.63	737.45	0.442	2301.1	7.61	13C6-PFDA	230666.72	5.000	PFDA	0.063	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	79199.44	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	79199.44	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	53589.07	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	53589.07	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	234710.94	10.197	639.9	5.38	13C3-PFBS	458326.00	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	111360.43	10.898	640.5	5.38	13C3-PFBS	458326.00	9.320	PFBS	0.475	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	285534.04	8.904	469.9	6.82	13C3-PFHxS	583116.40	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	121231.40	8.901	548.7	6.82	13C3-PFHxS	583116.40	9.480	PFPeS	0.425	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	3204458.21	61.520	1338.5	6.82	13C3-PFHxS	583116.40	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	1088090.84	60.192	1569.6	6.82	13C3-PFHxS	583116.40	9.480	PFHxS	0.340	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	151409.00	2.447	297.5	7.72	13C8-PFOS	432237.86	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	50981.37	2.753	522.8	7.72	13C8-PFOS	432237.86	9.580	PFHpS	0.337	0.299	✓
PFOS_1	498.9 / 79.9	7.73	7735640.55	131.753	842.9	7.72	13C8-PFOS	432237.86	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	1449990.26	120.144	1561.0	7.72	13C8-PFOS	432237.86	9.580	PFOS	0.187	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	432237.86	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	432237.86	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	432237.86	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	432237.86	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	139939.11	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	394794.27	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	394794.27	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.60	153312.20	6.357	1425.6	6.59	13C2-6:2FTS	164142.35	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.60	57411.29	6.261	370.0	6.59	13C2-6:2FTS	164142.35	19.020	6:2FTS	0.375	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	44859.59	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	44859.59	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	258673.87	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	258673.87	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	63007.04	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	63007.04	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	60508.84	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	60508.84	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	142358.26	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	142358.26	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	121311.58	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	121311.58	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	519293.44	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	482948.73	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	473932.57	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279404.56	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279404.56	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.83	1339.61	0.259	32.7	5.50	13C5-PFHxA	258416.91	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.81	831.57	0.365	24.3	5.50	13C5-PFHxA	258416.91	10.000	5:3 FTCA	0.621	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	258416.91	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279404.56	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	279404.56	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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Sample Name	C2690-FS(0)	**Injection Vial**	29
Sample ID	WGNA-SW-41-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 6:04:37 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.93	131140.12	6.470	417.9	1.92	13C4-PFBA	725187.09	40.000				
PFPeA	263.0 / 219.0	4.41	339896.90	14.710	434.8	4.40	13C5-PFPeA	314595.78	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.50	523251.46	17.533	359.2	5.48	13C5-PFHxA	295688.69	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.50	27905.14	14.718	549.4	5.48	13C5-PFHxA	295688.69	10.000	PFHxA	0.053	0.063	✓
PFHpA_1	363.1 / 319.0	6.22	354060.28	6.391	339.7	6.21	13C4-PFHpA	556432.59	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	8241.03	6.985	1253.7	6.21	13C4-PFHpA	556432.59	10.000	PFHpA	0.023	0.021	✓
PFOA_1	413.0 / 369.0	6.75	2343973.05	39.734	781.9	6.74	13C8-PFOA	664613.69	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.74	220146.07	33.706	946.2	6.74	13C8-PFOA	664613.69	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.20	61579.56	1.926	305.0	7.19	13C9-PFNA	294601.63	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.20	27120.95	1.539	577.0	7.19	13C9-PFNA	294601.63	5.000	PFNA	0.440	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	255396.54	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	255396.54	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86165.46	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	86165.46	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	50631.24	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	50631.24	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.37	244360.02	9.194	492.2	5.37	13C3-PFBS	529256.58	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	104017.91	8.815	741.5	5.37	13C3-PFBS	529256.58	9.320	PFBS	0.426	0.444	✓
PFPeS_1	349.1 / 79.9	6.22	247613.61	7.025	520.2	6.80	13C3-PFHxS	640951.39	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.22	112853.51	7.538	498.1	6.80	13C3-PFHxS	640951.39	9.480	PFPeS	0.456	0.424	✓
PFHxS_1	398.7 / 79.9	6.81	3304238.67	57.712	1666.5	6.80	13C3-PFHxS	640951.39	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	1098442.95	55.281	2063.3	6.80	13C3-PFHxS	640951.39	9.480	PFHxS	0.332	0.347	✓
PFHpS_1	449.0 / 79.9	7.29	149746.47	2.248	334.0	7.71	13C8-PFOS	465270.46	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	47263.05	2.371	650.1	7.71	13C8-PFOS	465270.46	9.580	PFHpS	0.316	0.299	✓
PFOS_1	498.9 / 79.9	7.71	7787333.82	123.217	1265.4	7.71	13C8-PFOS	465270.46	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	1468481.18	113.038	1595.3	7.71	13C8-PFOS	465270.46	9.580	PFOS	0.189	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	465270.46	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	465270.46	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	465270.46	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	465270.46	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	150237.62	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	424379.37	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	424379.37	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.58	132216.31	4.542	1269.8	6.57	13C2-6:2FTS	198152.59	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.58	46845.64	4.232	326.2	6.57	13C2-6:2FTS	198152.59	19.020	6:2FTS	0.354	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	43694.28	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	43694.28	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	285090.30	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	285090.30	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	67909.70	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	67909.70	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	64439.11	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	64439.11	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	150200.67	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	150200.67	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	120953.23	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	120953.23	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	575612.93	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	503602.17	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.76	2372.18	0.154	255.8	5.74	13C3-HFPO-DA	511835.11	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.76	389.70	0.157	68.9	5.74	13C3-HFPO-DA	511835.11	40.000	HFPO-DA	0.164	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	511835.11	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	314595.78	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	314595.78	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.81	2639.92	0.446	51.6	5.48	13C5-PFHxA	295688.69	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.82	909.87	0.349	34.5	5.48	13C5-PFHxA	295688.69	10.000	5:3 FTCA	0.345	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	295688.69	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	314595.78	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.40	13C5-PFPeA	314595.78	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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Sample Name	C2691-FS(0)	**Injection Vial**	30
Sample ID	WGNA-SW-39A-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 6:27:26 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.93	98928.70	5.158	305.6	1.92	13C4-PFBA	686273.64	40.000				
PFPeA	263.0 / 219.0	4.42	168064.09	7.595	298.0	4.41	13C5-PFPeA	301269.22	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	281124.14	10.144	288.5	5.50	13C5-PFHxA	274594.98	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	16735.30	9.504	320.1	5.50	13C5-PFHxA	274594.98	10.000	PFHxA	0.060	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	290833.59	5.603	275.3	6.22	13C4-PFHpA	521350.08	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	5000.22	4.523	280.4	6.22	13C4-PFHpA	521350.08	10.000	PFHpA	0.017	0.021	✓
PFOA_1	413.0 / 369.0	6.76	2177245.66	39.315	696.4	6.75	13C8-PFOA	623910.10	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.74	204790.70	33.400	800.4	6.75	13C8-PFOA	623910.10	10.000	PFOA	0.094	0.111	✓
PFNA_1	463.0 / 419.0	7.21	79247.97	2.646	291.3	7.20	13C9-PFNA	275940.88	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	34089.65	2.065	695.1	7.20	13C9-PFNA	275940.88	5.000	PFNA	0.430	0.551	✓
PFDA_1	512.9 / 469.0	7.61	23634.88	0.735	172.3	7.60	13C6-PFDA	232653.93	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.62	1621.89	0.963	699.5	7.60	13C6-PFDA	232653.93	5.000	PFDA	0.069	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	76206.11	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	76206.11	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	55972.94	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	55972.94	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	112435.97	4.504	377.3	5.38	13C3-PFBS	497123.32	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	50149.53	4.525	486.8	5.38	13C3-PFBS	497123.32	9.320	PFBS	0.446	0.444	✓
PFPeS_1	349.1 / 79.9	6.23	104076.20	2.992	331.5	6.81	13C3-PFHxS	632547.50	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	46070.10	3.118	389.8	6.81	13C3-PFHxS	632547.50	9.480	PFPeS	0.443	0.424	✓
PFHxS_1	398.7 / 79.9	6.82	2165767.32	38.330	1095.9	6.81	13C3-PFHxS	632547.50	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	681119.13	34.734	1557.7	6.81	13C3-PFHxS	632547.50	9.480	PFHxS	0.315	0.347	✓
PFHpS_1	449.0 / 79.9	7.30	58999.92	0.922	187.6	7.71	13C8-PFOS	447152.85	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	20306.75	1.060	295.6	7.71	13C8-PFOS	447152.85	9.580	PFHpS	0.344	0.299	✓
PFOS_1	498.9 / 79.9	7.72	4365172.00	71.868	992.9	7.71	13C8-PFOS	447152.85	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	850585.15	68.127	1530.7	7.71	13C8-PFOS	447152.85	9.580	PFOS	0.195	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	447152.85	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	447152.85	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	447152.85	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	447152.85	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	147400.88	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	399696.29	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	399696.29	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.59	10127.02	0.402	1051.2	6.58	13C2-6:2FTS	171375.94	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	3821.89	0.399	47.5	6.58	13C2-6:2FTS	171375.94	19.020	6:2FTS	0.377	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	44479.53	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	44479.53	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	267734.48	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	267734.48	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	57434.49	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	57434.49	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	61972.32	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	61972.32	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	151794.54	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	151794.54	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	120150.64	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	120150.64	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	531117.04	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	491550.29	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.77	2130.39	0.141	258.1	5.76	13C3-HFPO-DA	500919.19	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.77	642.81	0.264	226.6	5.76	13C3-HFPO-DA	500919.19	40.000	HFPO-DA	0.302	0.162	
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	500919.19	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	500919.19	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	7.99	1480.61	0.021	104.3	5.76	13C3-HFPO-DA	500919.19	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.00	539.01	0.024	75.5	5.76	13C3-HFPO-DA	500919.19	40.000	9Cl-PF3ONS	0.364	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	1724.34	0.025	170.3	5.76	13C3-HFPO-DA	500919.19	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	728.89	0.032	106.8	5.76	13C3-HFPO-DA	500919.19	40.000	11Cl-PF3OUdS	0.423	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301269.22	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301269.22	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	274594.98	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301269.22	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	301269.22	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2692-FS(0)	**Injection Vial**	31
Sample ID	WGNA-SW-33-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 6:50:15 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	77369.92	3.971	270.4	1.93	13C4-PFBA	697112.89	40.000				
PFPeA	263.0 / 219.0	4.40	217813.70	8.827	309.1	4.39	13C5-PFPeA	335943.70	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.49	266044.36	8.606	313.3	5.48	13C5-PFHxA	306289.33	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.49	13777.06	7.015	298.2	5.48	13C5-PFHxA	306289.33	10.000	PFHxA	0.052	0.063	✓
PFHpA_1	363.1 / 319.0	6.21	187016.33	3.019	244.2	6.20	13C4-PFHpA	622156.17	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	2995.52	2.271	158.3	6.20	13C4-PFHpA	622156.17	10.000	PFHpA	0.016	0.021	✓
PFOA_1	413.0 / 369.0	6.74	552453.14	8.716	391.9	6.73	13C8-PFOA	714088.53	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.74	50140.32	7.145	732.3	6.73	13C8-PFOA	714088.53	10.000	PFOA	0.091	0.111	✓
PFNA_1	463.0 / 419.0	7.19	37244.58	1.115	165.8	7.18	13C9-PFNA	307674.99	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	14689.22	0.798	385.2	7.18	13C9-PFNA	307674.99	5.000	PFNA	0.394	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	306965.25	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	306965.25	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	105755.77	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	105755.77	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	44338.60	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	44338.60	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.37	133670.75	4.671	341.6	5.36	13C3-PFBS	569819.00	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.37	58909.86	4.637	766.1	5.36	13C3-PFBS	569819.00	9.320	PFBS	0.441	0.444	✓
PFPeS_1	349.1 / 79.9	6.21	101933.59	2.739	308.0	6.79	13C3-PFHxS	676668.26	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	43001.19	2.721	332.9	6.79	13C3-PFHxS	676668.26	9.480	PFPeS	0.422	0.424	✓
PFHxS_1	398.7 / 79.9	6.80	1240738.81	20.527	883.1	6.79	13C3-PFHxS	676668.26	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.80	404105.05	19.264	1166.4	6.79	13C3-PFHxS	676668.26	9.480	PFHxS	0.326	0.347	✓
PFHpS_1	449.0 / 79.9	7.28	52953.95	0.752	143.5	7.69	13C8-PFOS	491600.36	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.28	13486.21	0.640	196.8	7.69	13C8-PFOS	491600.36	9.580	PFHpS	0.255	0.299	✓
PFOS_1	498.9 / 79.9	7.70	2455035.74	36.765	731.5	7.69	13C8-PFOS	491600.36	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.70	430450.78	31.360	842.4	7.69	13C8-PFOS	491600.36	9.580	PFOS	0.175	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	491600.36	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	491600.36	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	491600.36	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.69	13C8-PFOS	491600.36	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	167733.77	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	428053.57	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	428053.57	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.57	106038.97	3.304	1368.4	6.56	13C2-6:2FTS	218474.12	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.57	40145.38	3.289	311.8	6.56	13C2-6:2FTS	218474.12	19.020	6:2FTS	0.379	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	45025.64	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	45025.64	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	310467.38	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	310467.38	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	83387.27	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	83387.27	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	84059.96	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	84059.96	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	185713.13	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	185713.13	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	146795.24	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	146795.24	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	628136.00	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	549764.31	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	518936.36	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	335943.70	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	335943.70	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	306289.33	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	335943.70	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	335943.70	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2693-FS(0)	**Injection Vial**	32
Sample ID	WGNA-SW-30-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:13:07 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	25287.25	2.103	175.4	1.93	13C4-PFBA	430143.57	40.000				
PFPeA	263.0 / 219.0	4.43	160604.51	7.487	253.3	4.42	13C5-PFPeA	292057.18	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	104140.07	4.024	198.2	5.50	13C5-PFHxA	256424.43	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	7978.11	4.852	202.9	5.50	13C5-PFHxA	256424.43	10.000	PFHxA	0.077	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	64465.45	1.286	182.7	6.23	13C4-PFHpA	503584.21	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	1332.53	1.248	83.7	6.23	13C4-PFHpA	503584.21	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.77	235462.48	4.095	327.4	6.76	13C8-PFOA	647747.81	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.77	18992.27	2.984	599.6	6.76	13C8-PFOA	647747.81	10.000	PFOA	0.081	0.111	✓
PFNA_1	463.0 / 419.0	7.21	23143.94	0.839	153.9	7.20	13C9-PFNA	254272.84	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	9160.45	0.602	295.9	7.20	13C9-PFNA	254272.84	5.000	PFNA	0.396	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	251687.33	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	251687.33	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	78068.85	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	78068.85	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	39594.23	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	39594.23	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	69867.14	2.986	251.8	5.38	13C3-PFBS	465843.95	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	30292.87	2.917	306.4	5.38	13C3-PFBS	465843.95	9.320	PFBS	0.434	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	5997.94	0.179	51.1	6.82	13C3-PFHxS	607858.97	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	2152.41	0.152	37.2	6.82	13C3-PFHxS	607858.97	9.480	PFPeS	0.359	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	66379.86	1.223	271.8	6.82	13C3-PFHxS	607858.97	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	19386.68	1.029	569.4	6.82	13C3-PFHxS	607858.97	9.480	PFHxS	0.292	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	7.63	188409.03	3.446	163.4	7.71	13C8-PFOS	402460.95	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	30429.47	2.708	206.7	7.71	13C8-PFOS	402460.95	9.580	PFOS	0.162	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	402460.95	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	149211.30	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	362469.01	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	362469.01	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.60	9093.10	0.282	285.8	6.59	13C2-6:2FTS	219778.89	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	5021.88	0.409	50.3	6.59	13C2-6:2FTS	219778.89	19.020	6:2FTS	0.552	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	52162.48	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	52162.48	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	275883.15	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.06	13C8-PFOSA	275883.15	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	85033.09	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	85033.09	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	90977.07	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	90977.07	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	155323.34	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	155323.34	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	126224.45	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	126224.45	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	574477.44	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	520516.96	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	451941.50	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	292057.18	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	292057.18	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	256424.43	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	292057.18	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	292057.18	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2694-FS(0)	**Injection Vial**	33
Sample ID	WGNA-SW-20-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:35:57 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.93	44416.05	5.122	232.8	1.92	13C4-PFBA	310238.90	40.000				
PFPeA	263.0 / 219.0	4.42	157071.27	9.392	257.0	4.41	13C5-PFPeA	227683.01	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	208423.01	9.494	307.8	5.50	13C5-PFHxA	217509.64	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.52	12251.45	8.784	337.2	5.50	13C5-PFHxA	217509.64	10.000	PFHxA	0.059	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	161588.57	3.848	313.7	6.22	13C4-PFHpA	421720.45	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	2456.64	2.747	458.4	6.22	13C4-PFHpA	421720.45	10.000	PFHpA	0.015	0.021	✓
PFOA_1	413.0 / 369.0	6.76	473794.31	10.456	419.0	6.75	13C8-PFOA	510504.45	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	40992.68	8.171	462.5	6.75	13C8-PFOA	510504.45	10.000	PFOA	0.087	0.111	✓
PFNA_1	463.0 / 419.0	7.22	35212.70	1.531	260.8	7.21	13C9-PFNA	211926.56	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	15408.19	1.215	328.2	7.21	13C9-PFNA	211926.56	5.000	PFNA	0.438	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	205230.49	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.61	13C6-PFDA	205230.49	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	71609.58	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	71609.58	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	40534.72	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	40534.72	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	120144.90	5.669	463.9	5.38	13C3-PFBS	422028.84	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	51138.01	5.435	514.6	5.38	13C3-PFBS	422028.84	9.320	PFBS	0.426	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	99797.03	3.694	361.1	6.82	13C3-PFHxS	491301.62	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	41312.33	3.600	364.1	6.82	13C3-PFHxS	491301.62	9.480	PFPeS	0.414	0.424	✓
PFHxS_1	398.7 / 79.9	6.82	1235594.80	28.154	1285.2	6.82	13C3-PFHxS	491301.62	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	381125.04	25.023	1269.3	6.82	13C3-PFHxS	491301.62	9.480	PFHxS	0.309	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	48181.81	0.914	173.8	7.73	13C8-PFOS	368362.61	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	14710.82	0.932	188.4	7.73	13C8-PFOS	368362.61	9.580	PFHpS	0.305	0.299	✓
PFOS_1	498.9 / 79.9	7.73	2433799.16	48.640	632.2	7.73	13C8-PFOS	368362.61	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	476731.98	46.351	1063.2	7.73	13C8-PFOS	368362.61	9.580	PFOS	0.196	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	368362.61	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	368362.61	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	368362.61	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	368362.61	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	125360.87	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	353419.64	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	353419.64	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.59	101408.91	4.812	31482.9	6.58	13C2-6:2FTS	143443.97	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	39129.10	4.883	245.2	6.58	13C2-6:2FTS	143443.97	19.020	6:2FTS	0.386	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	41525.83	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	41525.83	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	222038.78	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	222038.78	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	64533.58	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	64533.58	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69774.70	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69774.70	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	131005.49	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	131005.49	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	93659.13	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	93659.13	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	441773.79	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	394732.62	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	386410.28	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	227683.01	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	227683.01	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	217509.64	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	227683.01	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	227683.01	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2695-FS(0)	**Injection Vial**	34
Sample ID	WGNA-SW-19-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:58:43 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.91	72059.15	4.974	264.1	1.89	13C4-PFBA	518332.10	40.000				
PFPeA	263.0 / 219.0	4.39	210302.80	8.737	289.4	4.38	13C5-PFPeA	327715.71	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.48	298655.34	9.547	342.5	5.47	13C5-PFHxA	309963.50	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.48	15546.10	7.822	320.3	5.47	13C5-PFHxA	309963.50	10.000	PFHxA	0.052	0.063	✓
PFHpA_1	363.1 / 319.0	6.19	212973.26	3.654	272.6	6.18	13C4-PFHpA	585349.93	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.19	4964.46	4.000	534.8	6.18	13C4-PFHpA	585349.93	10.000	PFHpA	0.023	0.021	✓
PFOA_1	413.0 / 369.0	6.72	634772.97	9.573	500.3	6.71	13C8-PFOA	747028.06	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	55443.48	7.552	598.3	6.71	13C8-PFOA	747028.06	10.000	PFOA	0.087	0.111	✓
PFNA_1	463.0 / 419.0	7.18	48456.59	1.334	225.4	7.16	13C9-PFNA	334802.01	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.18	19491.40	0.973	501.6	7.16	13C9-PFNA	334802.01	5.000	PFNA	0.402	0.551	✓
PFDA_1	512.9 / 469.0	7.58	10411.72	0.263	85.5	7.57	13C6-PFDA	286770.76	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.58	730.97	0.352	21445.3	7.57	13C6-PFDA	286770.76	5.000	PFDA	0.070	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	89408.64	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.96	13C7-PFUnA	89408.64	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	50324.55	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.03	13C2-PFTeDA	50324.55	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.36	138675.17	5.268	435.1	5.35	13C3-PFBS	524231.72	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.36	64161.53	5.490	776.6	5.35	13C3-PFBS	524231.72	9.320	PFBS	0.463	0.444	✓
PFPeS_1	349.1 / 79.9	6.20	137903.08	3.784	411.4	6.77	13C3-PFHxS	662740.13	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.19	56234.98	3.633	397.8	6.77	13C3-PFHxS	662740.13	9.480	PFPeS	0.408	0.424	✓
PFHxS_1	398.7 / 79.9	6.78	1692246.75	28.585	1316.9	6.77	13C3-PFHxS	662740.13	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.78	559050.89	27.210	1604.7	6.77	13C3-PFHxS	662740.13	9.480	PFHxS	0.330	0.347	✓
PFHpS_1	449.0 / 79.9	7.27	64714.37	0.961	222.0	7.68	13C8-PFOS	470407.50	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.26	21115.17	1.048	295.4	7.68	13C8-PFOS	470407.50	9.580	PFHpS	0.326	0.299	✓
PFOS_1	498.9 / 79.9	7.69	3122091.32	48.861	846.5	7.68	13C8-PFOS	470407.50	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.69	576246.14	43.873	1478.0	7.68	13C8-PFOS	470407.50	9.580	PFOS	0.185	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	470407.50	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	470407.50	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	470407.50	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.68	13C8-PFOS	470407.50	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.33	13C2-PFDoA	153246.29	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	419831.27	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.25	13C2-4:2FTS	419831.27	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.55	158678.45	4.842	1748.3	6.54	13C2-6:2FTS	223075.77	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.55	63507.71	5.096	333.6	6.54	13C2-6:2FTS	223075.77	19.020	6:2FTS	0.400	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	49507.53	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.41	13C2-8:2FTS	49507.53	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	292083.07	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	292083.07	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	82748.32	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.10	D3-MeFOSA	82748.32	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.43	D5-EtFOSA	86218.38	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.43	D5-EtFOSA	86218.38	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	170068.38	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.61	d3-MeFOSAA	170068.38	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	137950.72	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.75	d5-EtFOSAA	137950.72	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.04	D7-MeFOSE	569926.38	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.34	D9-EtFOSE	523395.55	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.72	13C3-HFPO-DA	543703.15	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.38	13C5-PFPeA	327715.71	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.38	13C5-PFPeA	327715.71	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	309963.50	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.38	13C5-PFPeA	327715.71	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.38	13C5-PFPeA	327715.71	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2696-FS(0)	**Injection Vial**	35
Sample ID	WGNA-SW-DUP-02-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 8:21:31 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.92	94387.87	4.770	310.5	1.91	13C4-PFBA	708027.88	40.000				
PFPeA	263.0 / 219.0	4.40	162123.19	7.637	336.4	4.39	13C5-PFPeA	289030.02	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.49	270484.78	9.258	318.0	5.47	13C5-PFHxA	289486.20	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.48	16423.73	8.848	409.1	5.47	13C5-PFHxA	289486.20	10.000	PFHxA	0.061	0.063	✓
PFHpA_1	363.1 / 319.0	6.21	280822.46	5.143	341.9	6.19	13C4-PFHpA	548397.42	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.21	7903.61	6.797	1986.7	6.19	13C4-PFHpA	548397.42	10.000	PFHpA	0.028	0.021	✓
PFOA_1	413.0 / 369.0	6.74	1903408.91	33.296	602.6	6.73	13C8-PFOA	644037.77	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	180227.26	28.476	907.7	6.73	13C8-PFOA	644037.77	10.000	PFOA	0.095	0.111	✓
PFNA_1	463.0 / 419.0	7.19	72307.12	2.263	315.9	7.18	13C9-PFNA	294343.43	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	27190.84	1.544	618.2	7.18	13C9-PFNA	294343.43	5.000	PFNA	0.376	0.551	✓
PFDA_1	512.9 / 469.0	7.60	16847.48	0.501	169.0	7.59	13C6-PFDA	243379.50	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.61	815.44	0.463	2237.6	7.59	13C6-PFDA	243379.50	5.000	PFDA	0.048	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	78696.55	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	78696.55	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	53999.15	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	53999.15	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.37	108194.20	3.971	435.7	5.36	13C3-PFBS	542546.15	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.36	44378.12	3.669	596.3	5.36	13C3-PFBS	542546.15	9.320	PFBS	0.410	0.444	✓
PFPeS_1	349.1 / 79.9	6.21	100971.66	2.798	338.1	6.79	13C3-PFHxS	656292.40	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.21	41641.08	2.716	335.6	6.79	13C3-PFHxS	656292.40	9.480	PFPeS	0.412	0.424	✓
PFHxS_1	398.7 / 79.9	6.79	2100278.90	35.826	1529.6	6.79	13C3-PFHxS	656292.40	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	661139.53	32.495	1616.5	6.79	13C3-PFHxS	656292.40	9.480	PFHxS	0.315	0.347	✓
PFHpS_1	449.0 / 79.9	7.28	55828.34	0.931	198.3	7.70	13C8-PFOS	418952.54	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.28	16985.69	0.946	188.8	7.70	13C8-PFOS	418952.54	9.580	PFHpS	0.304	0.299	✓
PFOS_1	498.9 / 79.9	7.71	3312496.81	58.207	801.1	7.70	13C8-PFOS	418952.54	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.70	688095.68	58.823	1637.5	7.70	13C8-PFOS	418952.54	9.580	PFOS	0.208	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	418952.54	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	418952.54	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	418952.54	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	418952.54	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	147073.88	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	445055.79	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.26	13C2-4:2FTS	445055.79	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.56	8675.72	0.294	378.8	6.55	13C2-6:2FTS	200829.68	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.56	3640.61	0.325	61.8	6.55	13C2-6:2FTS	200829.68	19.020	6:2FTS	0.420	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	36940.26	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	36940.26	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	285794.00	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	285794.00	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	55697.91	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	55697.91	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	55210.24	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	55210.24	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	161456.58	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	161456.58	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	120246.89	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	120246.89	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	494481.38	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	453715.97	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.73	1357.18	0.089	540.1	5.73	13C3-HFPO-DA	505388.60	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.73	474.25	0.193	29.4	5.73	13C3-HFPO-DA	505388.60	40.000	HFPO-DA	0.349	0.162	
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.73	13C3-HFPO-DA	505388.60	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	289030.02	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	289030.02	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.47	13C5-PFHxA	289486.20	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	289030.02	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.39	13C5-PFPeA	289030.02	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MB88 IB	**Injection Vial**	38
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 9:29:55 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.95	13C4-PFBA	1054444.26	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	407016.89	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	789504.86	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	789504.86	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	1000491.88	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	1000491.88	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	391609.59	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	391609.59	1.250	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	383635.03	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	383635.03	1.250	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	139735.31	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	139735.31	1.250	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	166878.82	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	166878.82	1.250	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	753311.58	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	753311.58	2.330	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	922049.56	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	922049.56	2.370	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	922049.56	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.84	13C3-PFHxS	922049.56	2.370	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	611899.02	2.395	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	326558.23	1.250	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	622177.13	4.690	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	622177.13	4.690	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	256048.36	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	256048.36	4.755	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	61961.02	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	61961.02	4.800	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	413954.93	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	413954.93	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	139999.96	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	139999.96	2.500	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	161283.22	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	161283.22	2.500	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	278338.05	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	278338.05	5.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	253469.15	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	253469.15	5.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	1279920.83	25.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	1424200.40	25.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	718683.23	10.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	407016.89	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	407016.89	5.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	445063.85	2.500	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	407016.89	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	407016.89	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

NASJRB WILLOW GROVE
SDG 24-0207

PFAS Concentration = $[(PA - b)/m] * C_{IS} * DF/S$

Where:

PA	Area of target analyte/ area of internal standard
b	y Intercept from calibration curve
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
DF	Dilution factor
S	Sample Size

Target Analyte	PENTADECAFLUOROOCTANOIC ACID (PFOA)
Sample ID	WGNA-SW-36-20240319
Laboratory Sample ID	C2687-FS
Sample Size (L)	0.532
Dilution Factor	1
PFOA Area	476909.92
IS Area	551289.47
IS Amount (ng/L)	10
Calibration Curve	y = 0.88761 x
Concentration (ng/L)	18.32
Reported Result (ng/L)	18.3

(((476909.92/551289.47))/0.88761)*10.000*1/0.532

NASJRB WILLOW GROVE
SDG 24-0207

Surrogate Concentration = $[(PA)/m] * C_{IS}$

Where:

PA	Area of target analyte/ area of internal standard
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
Surrogate spike amount	10

Surrogate	13C8-PFOA
Sample ID	WGNA-SW-36-20240319
Laboratory Sample ID	C2687-FS
13C8-PFOA Area	551289.41
IS Area	731769.89
IS Amount (ng)	10
Calibration Curve	y = 1.27936 x
Concentration (ng/g)	5.89
Calculation	((551289.41/731769.89)/1.27936)*10.00

Sample Size	0.532	L
Final Concentration	11.07	ng/L
Spike Concentration	10	ng
Sample Spike Concentration	18.80	ng/L
Calculated Surrogate %R	(11.07/18.8)*100	58.88603953
Reported Surrogate %R	59	

NASJRB WILLOW GROVE
SDG 24-0207

LABORATORY CONTROL SAMPLE

	Result (ng/L)	Target (ng/L)	Calculation	Recovery	Reported Recovery	QC Limits
PFOA	28.1	19.8	(28.1/19.8)*100	141.9191919	142	70-150

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

WGNA-SW-36-20240319

	Result (ng/L)	Target (ng/L)	Calculation	Recovery	Reported Recovery	QC Limits	RPD	Reported RPD	QC Limit
MS PFOA (43.5 ng/L in sample)	18.3	18.8	(43.5-18.3)/18.8*100	134.0425532	134	70-150	NA	NA	
MSD PFOA (42.5 ng/L in sample)	18.3	19	(42.5-18.3)/19*101	127.3684211	127	70-150	5.363985	5.4	30

ICC RECOVERY (%)	Result	Target	Calculation	Recovery	Reported Recovery
PFOA	5.763	5	5.763/5.000*100	115.26	115.25

ION RATIO RECOVERY (%)	Result	Target	Calculation	Recovery	QC Limits
WGNA-SW-36-20240319					
PFOA	0.09	0.111	0.09/0.111*100	81.08108108	50 - 150

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PFAS Sample Quant Report

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Sample Name	C2687-FS(0)	**Injection Vial**	21
Sample ID	WGNA-SW-36-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:02:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	62815.15	3.844	256.4	1.93	13C4-PFBA	584713.18	40.000				
PFPeA	263.0 / 219.0	4.43	141328.91	7.751	242.6	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.52	180393.91	7.554	300.7	5.51	13C5-PFHxA	236611.01	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.52	12603.58	8.307	308.0	5.51	13C5-PFHxA	236611.01	10.000	PFHxA	0.070	0.063	✓
PFHpA_1	363.1 / 319.0	6.25	145918.53	3.060	243.4	6.24	13C4-PFHpA	478991.96	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	2378.59	2.342	101.5	6.24	13C4-PFHpA	478991.96	10.000	PFHpA	0.016	0.021	✓
PFOA_1	413.0 / 369.0	6.78	476909.92	9.746	430.9	6.76	13C8-PFOA	551289.47	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	42899.95	7.918	426.3	6.76	13C8-PFOA	551289.47	10.000	PFOA	0.090	0.111	✓
PFNA_1	463.0 / 419.0	7.22	28801.44	1.053	227.1	7.21	13C9-PFNA	251968.90	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	10919.82	0.724	310.5	7.21	13C9-PFNA	251968.90	5.000	PFNA	0.379	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	217963.43	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	217963.43	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	76297.62	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	76297.62	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	41678.22	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	41678.22	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.40	114200.52	5.268	431.8	5.39	13C3-PFBS	431630.98	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	52848.43	5.492	575.7	5.39	13C3-PFBS	431630.98	9.320	PFBS	0.463	0.444	✓
PFPeS_1	349.1 / 79.9	6.25	71730.86	2.431	291.9	6.83	13C3-PFHxS	536470.01	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.25	29997.20	2.394	262.0	6.83	13C3-PFHxS	536470.01	9.480	PFPeS	0.418	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	900295.08	18.787	1132.3	6.83	13C3-PFHxS	536470.01	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	290780.22	17.484	1298.3	6.83	13C3-PFHxS	536470.01	9.480	PFHxS	0.323	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	42087.56	0.764	199.9	7.72	13C8-PFOS	384778.46	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	12768.59	0.774	233.6	7.72	13C8-PFOS	384778.46	9.580	PFHpS	0.303	0.299	✓
PFOS_1	498.9 / 79.9	7.72	1564637.47	29.936	551.3	7.72	13C8-PFOS	384778.46	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	296845.11	27.630	667.7	7.72	13C8-PFOS	384778.46	9.580	PFOS	0.190	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.72	13C8-PFOS	384778.46	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	136464.43	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	363665.29	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	363665.29	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.61	68651.97	2.730	2974.0	6.60	13C2-6:2FTS	171165.34	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	26498.70	2.771	248.2	6.60	13C2-6:2FTS	171165.34	19.020	6:2FTS	0.386	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40833.32	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40833.32	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	231836.76	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	231836.76	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	60711.02	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	60711.02	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	57808.50	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	57808.50	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	151164.06	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	151164.06	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	110415.01	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	110415.01	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	473882.97	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	405604.72	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	450232.62	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.76	1588.60	0.026	572.4	5.77	13C3-HFPO-DA	450232.62	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.76	681.10	0.033	70.3	5.77	13C3-HFPO-DA	450232.62	40.000	11Cl-PF3OUdS	0.429	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	236611.01	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	248247.99	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2687-FS(0)	**Injection Vial**	21
Sample ID	WGNA-SW-36-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:02:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0207A_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	1.93	584713.18	22.950	2019.5	1.93	13C3-PFBA	584149.50	20.000				
13C5-PFPeA	268.3 / 223.0	4.42	248247.99	12.955	1435.9	5.51	13C2-PFHxA	294124.37	10.000		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.51	236611.01	5.638	1432.7	5.51	13C2-PFHxA	294124.37	10.000		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.24	478991.96	6.298	2382.5	5.51	13C2-PFHxA	294124.37	10.000		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	6.76	551289.47	5.889	2973.1	6.77	13C4-PFOA	731769.89	10.000		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.21	251968.90	3.325	2605.7	7.21	13C5-PFNA	410324.93	5.000		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	7.62	217963.43	2.966	3123.3	7.62	13C2-PFDA	287770.76	5.000		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.00	76297.62	2.756	4665.6	7.62	13C2-PFDA	287770.76	5.000		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.37	136464.43	2.383	3474.6	7.62	13C2-PFDA	287770.76	5.000		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.06	41678.22	1.388	1661.6	7.62	13C2-PFDA	287770.76	5.000		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.39	431630.98	5.606	394.4	6.83	18O2-PFHxS	187810.27	9.480		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	6.83	536470.01	5.808	969.1	6.83	18O2-PFHxS	187810.27	9.480		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	7.72	384778.46	6.169	965.1	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.29	363665.29	13.729	462.0	1.93	13C3-PFBA	584149.50	20.000		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	6.60	171165.34	13.387	656.5	6.83	18O2-PFHxS	187810.27	9.480		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.45	40833.32	12.474	355.7	6.83	18O2-PFHxS	187810.27	9.480		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.08	231836.76	5.548	1518.2	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.13	60711.02	4.348	743.2	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.46	57808.50	3.563	914.2	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	7.65	151164.06	12.400	2371.2	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	7.80	110415.01	11.668	2431.9	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.07	473882.97	39.804	605.8	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.36	405604.72	29.749	702.5	7.73	13C4-PFOS	552009.87	9.580		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	5.77	450232.62	26.567	3080.5	5.51	13C2-PFHxA	294124.37	10.000		N/A	N/A	✓

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TETRA TECH

INTERNAL CORRESPONDENCE

TO: **T. MOORE** **DATE:** **APRIL 1, 2024**

FROM: **GLORIA SCHIFINO** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –POLYFLUOROALKYL SUBSTANCES (PFAS)**
NAVAL AIR STATION JOINT RESERVE BASE (NASJRB) WILLOW GROVE
WILLOW GROVE, PENNSYLVANIA
SAMPLE DELIVERY GROUP (SDG) 24-0213

SAMPLES: 15/Aqueous/PFAS

WGNA-FB-20240320	WGNA-SW-01-20240320
WGNA-SW-03-20240320	WGNA-SW-04-20240320
WGNA-SW-05-20240320	WGNA-SW-10-20240320
WGNA-SW-14-20240320	WGNA-SW-17-20240320
WGNA-SW-19-20240320	WGNA-SW-28-20240320
WGNA-SW-52-20240320	WGNA-SW-63-20240320
WGNA-SW-64-20240320	WGNA-SW-DUP-03-20240320
WGNA-SW-DUP-04-20240320	

Overview

The sample set for NAS JRB Willow Grove, SDG 24-0213, consisted of fourteen (14) aqueous samples and one (1) field blank. All samples were analyzed for PFAS. Two field duplicate pairs were included in this SDG: WGNA-SW-DUP-03-20240320/ WGNA-SW-04-20240320 and WGNA-SW-DUP-04-20240320/ WGNA-SW-52-20240320.

The samples were collected by Tetra Tech, Inc. on March 20, 2024 and analyzed by Battelle Norwell Operations. All sample analyses were conducted in accordance EPA Method 1633 analytical and reporting protocols.

The data contained in this SDG was validated via 90% EPA stage 2B and 10% stage 4 with regard to the following parameters: data completeness, sample preservation and holding times, mass calibration, LC/MS/MS system tuning and performance, mass spectral acquisition rate, instrument sensitivity check, ion transition check, initial/continuing calibrations, laboratory method/preparation and field blank results, extracted internal standard recoveries, laboratory control sample results, matrix spike/ matrix spike duplicate results, ion ratio results, field duplicate precision, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

Minor

Detected results reported below the Limit of Quantitation (LOQ) but above the Detection Limit (DL) were qualified as estimated, (J).

Notes

Non-detected results were reported to the Limit of Detection (LOD).

The result for perfluorooctanoic acid (PFOA) was checked and verified for sample WGNA-SW-19-20240320. The surrogate percent recovery for 13C8- PFOA was checked in this sample.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the Department of Defense (DOD) documents entitled "Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis be QSM Table B24" (October 18, 2022). The text of this report has been formulated to address only those areas affecting data quality.

Gloria Schifino

Tetra Tech, Inc.
Gloria Schifino
Chemist/Data Validator

Joseph A. Samchuck

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Validation Qualifier (VQL) Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UX	The sample results (non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.
X	The sample results (detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Tetra Tech Qualifier Code (QLCD) :

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc. > control limit)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery and/or MS/MSD RPD outside control limit
E	=	LCS/LCSD Recovery and/or LCS/LCSD RPD outside control limit
F	=	Lab Duplicate Imprecision (RPD > control limit)
G	=	Field Duplicate Imprecision (RPD > control limit)
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's r < 0.995
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient r < 0.995
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 standard deviations is greater than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed
Z3	=	Tentatively Identified Compound Aldol condensate

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240320			WGNA-SW-01-20240320			WGNA-SW-03-20240320			WGNA-SW-04-20240320		
SDG: 24-0213	LAB_ID	C2701-FS			C2712-FS			C2711-FS			C2709-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.25	U		2.29	U		1.97	U		1.96	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		3	U		3.05	U		2.63	U		2.6	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.41	U		3.47	U		2.99	U		2.96	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.45	U		3.51	U		3.03	U		3	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.43	U		1.46	U		1.26	U		1.25	U	
4:2 FLUOROTELOMER SULFONATE		2.73	U		2.77	U		2.39	U		2.37	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.21	U		9.37	U		8.08	U		8.01	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		3.06	U		48.8			14.1			5.87		
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.8	U		11	U		9.46	U		9.37	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.89	U		4.93	J	P	5.3	J	P	1.64	U	
9CL-PF3ONS		1.44	U		1.47	U		1.27	U		1.25	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.55	U		1.57	U		1.36	U		1.34	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.206	U		0.21	U		0.181	U		0.179	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.18	U		1.2	U		1.03	U		1.03	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.411	U		0.418	U		0.361	U		0.357	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.35	U		1.38	U		1.19	U		1.18	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.57	U		1.6	U		1.38	U		1.36	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		0.599	U		44			50.5			25.3		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.438	U		0.445	U		0.384	U		0.381	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.3	U		1.32	U		1.14	U		1.13	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.24	U		1.26	U		1.09	U		1.08	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-05-20240320			WGNA-SW-10-20240320			WGNA-SW-14-20240320			WGNA-SW-17-20240320		
SDG: 24-0213	LAB_ID	C2708-FS			C2707-FS			C2705-FS			C2703-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.08	U		2.01	U		2.06	U		2.22	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.77	U		2.68	U		2.75	U		2.96	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.15	U		3.05	U		3.13	U		3.37	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.19	U		3.09	U		3.16	U		3.41	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.33	U		1.28	U		1.31	U		1.42	U	
4:2 FLUOROTELOMER SULFONATE		2.52	U		2.44	U		2.5	U		2.69	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		8.53	U		8.24	U		8.45	U		9.1	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		3.59	J	P	2.74	U		1.7	J	P	2.43	J	P
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		9.98	U		9.65	U		9.89	U		10.7	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.75	U		1.69	U		1.73	U		1.87	U	
9CL-PF3ONS		1.34	U		1.29	U		1.32	U		1.43	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.43	U		1.38	U		1.42	U		1.53	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.191	U		0.184	U		0.189	U		0.204	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.09	U		1.06	U		1.08	U		1.17	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.38	U		0.368	U		0.377	U		0.406	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.25	U		1.21	U		1.24	U		1.34	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.45	U		1.4	U		1.44	U		1.55	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		23.3			8.18			14.7			15		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.405	U		0.392	U		0.402	U		0.433	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.2	U		1.16	U		1.19	U		1.28	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.15	U		1.11	U		1.14	U		1.22	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-19-20240320			WGNA-SW-28-20240320			WGNA-SW-52-20240320			WGNA-SW-63-20240320		
SDG: 24-0213	LAB_ID	C2702-FS			C2704-FS			C2713-FS			C2706-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.18	U		2.12	U		2.22	U		2.09	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.91	U		2.82	U		2.95	U		2.78	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.31	U		3.21	U		3.36	U		3.16	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.35	U		3.25	U		3.4	U		3.2	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.39	U		1.35	U		1.41	U		1.33	U	
4:2 FLUOROTELOMER SULFONATE		2.65	U		2.57	U		2.69	U		2.53	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		8.94	U		8.68	U		9.08	U		8.54	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		9.13			94.9			3.01	U		2.84	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.5	U		10.2	U		10.6	U		10	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.84	U		1.78	U		1.87	U		1.75	U	
9CL-PF3ONS		1.4	U		1.36	U		1.42	U		1.34	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.5	U		1.46	U		1.52	U		1.43	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.2	U		0.194	U		0.203	U		0.191	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.14	U		1.11	U		1.16	U		1.09	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.399	U		0.387	U		0.405	U		0.381	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.31	U		1.27	U		1.33	U		1.25	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.52	U		1.48	U		1.55	U		1.46	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		18.4			41.2			13			13		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.425	U		0.412	U		0.432	U		0.406	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.26	U		1.22	U		1.28	U		1.2	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.2	U		1.17	U		1.22	U		1.15	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-64-20240320			WGNA-SW-DUP-03-20240320			WGNA-SW-DUP-04-20240320		
SDG: 24-0213	LAB_ID	C2710-FS			C2714-FS			C2715-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF				WGNA-SW-04-20240320			WGNA-SW-52-20240320		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
11CL-PF3OUDS		2.15	U		2.06	U		2.01	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.86	U		2.75	U		2.68	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.25	U		3.13	U		3.05	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.29	U		3.16	U		3.09	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.37	U		1.31	U		1.28	U	
4:2 FLUOROTELOMER SULFONATE		2.6	U		2.5	U		2.44	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		8.8	U		8.45	U		8.24	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		2.92	U		6.53			2.74	U	
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.3	U		9.89	U		9.65	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.81	U		1.73	U		1.69	U	
9CL-PF3ONS		1.38	U		1.32	U		1.29	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.48	U		1.42	U		1.38	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.197	U		0.189	U		0.184	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.13	U		1.08	U		1.06	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.393	U		0.377	U		0.368	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.29	U		1.24	U		1.21	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.5	U		1.44	U		1.4	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		11.7			27			13		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.418	U		0.402	U		0.392	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.24	U		1.19	U		1.16	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.18	U		1.14	U		1.11	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-FB-20240320			WGNA-SW-01-20240320			WGNA-SW-03-20240320			WGNA-SW-04-20240320		
SDG: 24-0213	LAB_ID	C2701-FS			C2712-FS			C2711-FS			C2709-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		0.366	U		35.5			12.8			14.7		
PERFLUOROBUTANOIC ACID (PFBA)		1.23	U		26			13			8.19		
PERFLUORODECANESULFONIC ACID (PFDS)		0.335	U		0.34	U		0.293	U		0.291	U	
PERFLUORODECANOIC ACID (PFDA)		0.461	U		1.63	J	P	0.96	J	P	0.35	J	P
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.372	U		0.378	U		0.326	U		0.323	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.622	U		0.632	U		0.545	U		0.54	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.421	U		9.46			7.18			2.57		
PERFLUOROHEPTANOIC ACID (PFHPA)		0.357	U		20.5			24.7			8.94		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		0.601	U		239			159			71.7		
PERFLUOROHEXANOIC ACID (PFHXA)		0.851	U		62.1			33.3			18.6		
PERFLUORONONANESULFONIC ACID (PFNS)		0.514	U		0.523	U		0.451	U		0.447	U	
PERFLUORONONANOIC ACID (PFNA)		0.517	U		6.69			10.7			3.72		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.388	U		8.74	I		0.341	U		0.338	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		0.512	U		626			551			149		
PERFLUOROPENTANESULFONIC ACID (PFPES)		0.267	U		37.6			15			9.25		
PERFLUOROPENTANOIC ACID (PFPEA)		1.16	U		46.8			26.8			14.5		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.886	U		0.901	U		0.777	U		0.77	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.75	U		0.763	U		0.658	U		0.652	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.419	U		0.426	U		0.368	U		0.364	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-05-20240320			WGNA-SW-10-20240320			WGNA-SW-14-20240320			WGNA-SW-17-20240320		
SDG: 24-0213	LAB_ID	C2708-FS			C2707-FS			C2705-FS			C2703-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		12.8			4.84			8.63			9.25		
PERFLUOROBUTANOIC ACID (PFBA)		7.99			4	J	P	6.5			7.12		
PERFLUORODECANESULFONIC ACID (PFDS)		0.31	U		0.299	U		0.307	U		0.331	U	
PERFLUORODECANOIC ACID (PFDA)		0.34	J	P	0.346	J	P	0.422	U		0.455	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.344	U		0.333	U		0.341	U		0.367	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.576	U		0.556	U		0.57	U		0.614	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		2.23			0.377	U		1.03	J	P	1.18	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		8.48			2.87			5.51			6.48		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		58.7			2.53			37.3			43.7		
PERFLUOROHEXANOIC ACID (PFHXA)		17			4.49			11.9			13.4		
PERFLUORONONANESULFONIC ACID (PFNS)		0.476	U		0.46	U		0.472	U		0.508	U	
PERFLUORONONANOIC ACID (PFNA)		2.76			1.82			2.44			2.36		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.359	U		0.348	U		0.356	U		0.384	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		109			6.53			54.8			62.1		
PERFLUOROPENTANESULFONIC ACID (PFPES)		8.27			0.497	J	P	5.21			5.79		
PERFLUOROPENTANOIC ACID (PFPEA)		12.7			3.91			9.46			11.7		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.82	U		0.793	U		0.813	U		0.876	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.694	U		0.671	U		0.688	U		0.741	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.388	U		0.375	U		0.384	U		0.414	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-19-20240320			WGNA-SW-28-20240320			WGNA-SW-52-20240320			WGNA-SW-63-20240320		
SDG: 24-0213	LAB_ID	C2702-FS			C2704-FS			C2713-FS			C2706-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		10.5			19.9			4.18			6.76		
PERFLUOROBUTANOIC ACID (PFBA)		9.35			41.5			4.44	J	P	5.71	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.325	U		0.315	U		0.33	U		0.31	U	
PERFLUORODECANOIC ACID (PFDA)		0.447	U		0.434	U		0.454	U		0.427	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.361	U		0.35	U		0.367	U		0.345	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.603	U		0.586	U		0.613	U		0.577	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		1.8			6.65			0.961	J	P	0.77	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		7.24			17.4			3.32			4.74		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		50.9			151			26.6			19.2		
PERFLUOROHEXANOIC ACID (PFHXA)		16			62.5			7.29			8.43		
PERFLUORONONANESULFONIC ACID (PFNS)		0.499	U		0.484	U		0.507	U		0.477	U	
PERFLUORONONANOIC ACID (PFNA)		2.47			3.18			1.64			2.26		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.377	U		0.366	U		0.383	U		0.36	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		90			360			32.8			36.7		
PERFLUOROPENTANESULFONIC ACID (PFPES)		6.73			22.7			3.76			2.74		
PERFLUOROPENTANOIC ACID (PFPEA)		16.2			71			5.25			6.65		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.86	U		0.835	U		0.874	U		0.822	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.727	U		0.706	U		0.739	U		0.695	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.407	U		0.395	U		0.413	U		0.389	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-64-20240320			WGNA-SW-DUP-03-20240320			WGNA-SW-DUP-04-20240320		
SDG: 24-0213	LAB_ID	C2710-FS			C2714-FS			C2715-FS		
FRACTION: PFAS	SAMP_DATE	3/20/2024			3/20/2024			3/20/2024		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF				WGNA-SW-04-20240320			WGNA-SW-52-20240320		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		9.58			14.5			4.35		
PERFLUOROBUTANOIC ACID (PFBA)		4.78	J	P	9.09			4.51	J	P
PERFLUORODECANESULFONIC ACID (PFDS)		0.32	U		0.307	U		0.299	U	
PERFLUORODECANOIC ACID (PFDA)		0.44	U		0.422	U		0.412	U	
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.355	U		0.341	U		0.333	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.594	U		0.57	U		0.556	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		0.272	J	P	2.61			0.86	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		3.28			9.37			3.74		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		4.4			76.4			26.3		
PERFLUOROHEXANOIC ACID (PFHXA)		5.62			20			6.89		
PERFLUORONONANESULFONIC ACID (PFNS)		0.491	U		0.472	U		0.46	U	
PERFLUORONONANOIC ACID (PFNA)		1.79			3.73			1.45	J	P
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.371	U		0.356	U		0.348	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		9.37			157			33.1		
PERFLUOROPENTANESULFONIC ACID (PFPES)		0.736	J	P	10.4			3.5		
PERFLUOROPENTANOIC ACID (PFPEA)		4.14			14.9			5.81		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.846	U		0.813	U		0.793	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.716	U		0.688	U		0.671	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.4	U		0.384	U		0.375	U	

Appendix B

Results as Reported by the Laboratory

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240320
Battelle ID	C2701-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	QC
Sample Size	0.484
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.23 U	C2701-FS(0)	1.000	3/23/2024	0.617	1.23	6.61
PFPeA	2706-90-3	1.16 U	C2701-FS(0)	1.000	3/23/2024	0.582	1.16	3.31
PFHxA	307-24-4	0.851 U	C2701-FS(0)	1.000	3/23/2024	0.426	0.851	1.65
PFHpA	375-85-9	0.357 U	C2701-FS(0)	1.000	3/23/2024	0.179	0.357	1.65
PFOA	335-67-1	0.599 U	C2701-FS(0)	1.000	3/23/2024	0.300	0.599	1.65
PFNA	375-95-1	0.517 U	C2701-FS(0)	1.000	3/23/2024	0.258	0.517	1.65
PFDA	335-76-2	0.461 U	C2701-FS(0)	1.000	3/23/2024	0.230	0.461	1.65
PFUnA	2058-94-8	0.419 U	C2701-FS(0)	1.000	3/23/2024	0.210	0.419	1.65
PFDoA	307-55-1	0.622 U	C2701-FS(0)	1.000	3/23/2024	0.311	0.622	1.65
PFTrDA	72629-94-8	0.750 U	C2701-FS(0)	1.000	3/23/2024	0.375	0.750	1.65
PFTeDA	376-06-7	0.886 U	C2701-FS(0)	1.000	3/23/2024	0.443	0.886	1.65
PFBS	375-73-5	0.366 U	C2701-FS(0)	1.000	3/23/2024	0.183	0.366	1.65
PFPeS	2706-91-4	0.267 U	C2701-FS(0)	1.000	3/23/2024	0.133	0.267	1.65
PFHxS	355-46-4	0.601 U	C2701-FS(0)	1.000	3/23/2024	0.301	0.601	1.65
PFHpS	375-92-8	0.421 U	C2701-FS(0)	1.000	3/23/2024	0.211	0.421	1.65
PFOS	1763-23-1	0.512 U	C2701-FS(0)	1.000	3/23/2024	0.256	0.512	1.65
PFNS	68259-12-1	0.514 U	C2701-FS(0)	1.000	3/23/2024	0.257	0.514	1.65
PFDS	335-77-3	0.335 U	C2701-FS(0)	1.000	3/23/2024	0.167	0.335	1.65
PFDoS	79780-39-5	0.372 U	C2701-FS(0)	1.000	3/23/2024	0.186	0.372	1.65
4:2FTS	757124-72-4	2.73 U	C2701-FS(0)	1.000	3/23/2024	1.36	2.73	6.61
6:2FTS	27619-97-2	3.06 U	C2701-FS(0)	1.000	3/23/2024	1.53	3.06	6.61
8:2FTS	39108-34-4	1.89 U	C2701-FS(0)	1.000	3/23/2024	0.946	1.89	6.61
PFOSA	754-91-6	0.388 U	C2701-FS(0)	1.000	3/23/2024	0.194	0.388	1.65
NMeFOSA	31506-32-8	0.411 U	C2701-FS(0)	1.000	3/23/2024	0.206	0.411	1.65
NEtFOSA	4151-50-2	0.206 U	C2701-FS(0)	1.000	3/23/2024	0.103	0.206	1.65
NMeFOSAA	2355-31-9	1.35 U	C2701-FS(0)	1.000	3/23/2024	0.677	1.35	1.65
NEtFOSAA	2991-50-6	1.18 U	C2701-FS(0)	1.000	3/23/2024	0.590	1.18	1.65
NMeFOSE	24448-09-7	3.41 U	C2701-FS(0)	1.000	3/23/2024	1.70	3.41	16.5
NEtFOSE	1691-99-2	3.00 U	C2701-FS(0)	1.000	3/23/2024	1.50	3.00	16.5
HFPO-DA	13252-13-6	1.55 U	C2701-FS(0)	1.000	3/23/2024	0.773	1.55	6.61
Adona	919005-14-4	1.43 U	C2701-FS(0)	1.000	3/23/2024	0.717	1.43	6.61
PFMPA	377-73-1	1.30 U	C2701-FS(0)	1.000	3/23/2024	0.649	1.30	3.31
PFMBA	863090-89-5	1.24 U	C2701-FS(0)	1.000	3/23/2024	0.620	1.24	3.31
NFDHA	151772-58-6	1.57 U	C2701-FS(0)	1.000	3/23/2024	0.785	1.57	3.31
9Cl-PF3ONS	756426-58-1	1.44 U	C2701-FS(0)	1.000	3/23/2024	0.722	1.44	6.61
11Cl-PF3OUdS	763051-92-9	2.25 U	C2701-FS(0)	1.000	3/23/2024	1.13	2.25	6.61
PFEESA	113507-82-7	0.438 U	C2701-FS(0)	1.000	3/23/2024	0.219	0.438	3.31
3:3 FTCA	356-02-5	3.45 U	C2701-FS(0)	1.000	3/23/2024	1.73	3.45	8.26
5:3 FTCA	914637-49-3	9.21 U	C2701-FS(0)	1.000	3/23/2024	4.61	9.21	41.3
7:3 FTCA	812-70-4	10.8 U	C2701-FS(0)	1.000	3/23/2024	5.39	10.8	41.3

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-FB-20240320
Battelle ID	C2701-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	103	C2701-FS(0)	3/23/2024
13C5-PFPeA	113	C2701-FS(0)	3/23/2024
13C5-PFHxA	108	C2701-FS(0)	3/23/2024
13C4-PFHpA	116	C2701-FS(0)	3/23/2024
13C8-PFOA	110	C2701-FS(0)	3/23/2024
13C9-PFNA	99	C2701-FS(0)	3/23/2024
13C6-PFDA	103	C2701-FS(0)	3/23/2024
13C7-PFUnA	89	C2701-FS(0)	3/23/2024
13C2-PFDoA	97	C2701-FS(0)	3/23/2024
13C2-PFTeDA	88	C2701-FS(0)	3/23/2024
13C3-PFBS	104	C2701-FS(0)	3/23/2024
13C3-PFHxS	98	C2701-FS(0)	3/23/2024
13C8-PFOS	107	C2701-FS(0)	3/23/2024
13C2-4:2FTS	128	C2701-FS(0)	3/23/2024
13C2-6:2FTS	109	C2701-FS(0)	3/23/2024
13C2-8:2FTS	80	C2701-FS(0)	3/23/2024
13C8-PFOSA	98	C2701-FS(0)	3/23/2024
d3-MeFOSA	72	C2701-FS(0)	3/23/2024
d5-EtFOSA	74	C2701-FS(0)	3/23/2024
d3-MeFOSAA	102	C2701-FS(0)	3/23/2024
d5-EtFOSAA	112	C2701-FS(0)	3/23/2024
d7-MeFOSE	102	C2701-FS(0)	3/23/2024
d9-EtFOSE	92	C2701-FS(0)	3/23/2024
13C3-HFPO-DA	105	C2701-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	71	C2701-FS(0)	3/23/2024
13C2-PFHxA	66	C2701-FS(0)	3/23/2024
13C4-PFOA	67	C2701-FS(0)	3/23/2024
13C5-PFNA	71	C2701-FS(0)	3/23/2024
13C2-PFDA	69	C2701-FS(0)	3/23/2024
18O2-PFHxS	76	C2701-FS(0)	3/23/2024
13C4-PFOS	65	C2701-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-19-20240320
Battelle ID	C2702-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.499
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.35	C2702-FS(0)	1.000	3/23/2024	0.598	1.20	6.41
PFPeA	2706-90-3	16.2	C2702-FS(0)	1.000	3/23/2024	0.564	1.13	3.21
PFHxA	307-24-4	16.0	C2702-FS(0)	1.000	3/23/2024	0.413	0.826	1.60
PFHpA	375-85-9	7.24	C2702-FS(0)	1.000	3/23/2024	0.173	0.347	1.60
PFOA	335-67-1	18.4	C2702-FS(0)	1.000	3/23/2024	0.291	0.581	1.60
PFNA	375-95-1	2.47	C2702-FS(0)	1.000	3/23/2024	0.251	0.501	1.60
PFDA	335-76-2	0.447 U	C2702-FS(0)	1.000	3/23/2024	0.223	0.447	1.60
PFUnA	2058-94-8	0.407 U	C2702-FS(0)	1.000	3/23/2024	0.203	0.407	1.60
PFDoA	307-55-1	0.603 U	C2702-FS(0)	1.000	3/23/2024	0.302	0.603	1.60
PFTrDA	72629-94-8	0.727 U	C2702-FS(0)	1.000	3/23/2024	0.364	0.727	1.60
PFTeDA	376-06-7	0.860 U	C2702-FS(0)	1.000	3/23/2024	0.430	0.860	1.60
PFBS	375-73-5	10.5	C2702-FS(0)	1.000	3/23/2024	0.177	0.355	1.60
PFPeS	2706-91-4	6.73	C2702-FS(0)	1.000	3/23/2024	0.129	0.259	1.60
PFHxS	355-46-4	50.9	C2702-FS(0)	1.000	3/23/2024	0.292	0.583	1.60
PFHpS	375-92-8	1.80	C2702-FS(0)	1.000	3/23/2024	0.204	0.409	1.60
PFOS	1763-23-1	90.0	C2702-FS(0)	1.000	3/23/2024	0.248	0.497	1.60
PFNS	68259-12-1	0.499 U	C2702-FS(0)	1.000	3/23/2024	0.249	0.499	1.60
PFDS	335-77-3	0.325 U	C2702-FS(0)	1.000	3/23/2024	0.162	0.325	1.60
PFDoS	79780-39-5	0.361 U	C2702-FS(0)	1.000	3/23/2024	0.180	0.361	1.60
4:2FTS	757124-72-4	2.65 U	C2702-FS(0)	1.000	3/23/2024	1.32	2.65	6.41
6:2FTS	27619-97-2	9.13	C2702-FS(0)	1.000	3/23/2024	1.48	2.97	6.41
8:2FTS	39108-34-4	1.84 U	C2702-FS(0)	1.000	3/23/2024	0.918	1.84	6.41
PFOSA	754-91-6	0.377 U	C2702-FS(0)	1.000	3/23/2024	0.188	0.377	1.60
NMeFOSA	31506-32-8	0.399 U	C2702-FS(0)	1.000	3/23/2024	0.199	0.399	1.60
NEtFOSA	4151-50-2	0.200 U	C2702-FS(0)	1.000	3/23/2024	0.100	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	C2702-FS(0)	1.000	3/23/2024	0.656	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	C2702-FS(0)	1.000	3/23/2024	0.572	1.14	1.60
NMeFOSE	24448-09-7	3.31 U	C2702-FS(0)	1.000	3/23/2024	1.65	3.31	16.0
NEtFOSE	1691-99-2	2.91 U	C2702-FS(0)	1.000	3/23/2024	1.45	2.91	16.0
HFPO-DA	13252-13-6	1.50 U	C2702-FS(0)	1.000	3/23/2024	0.749	1.50	6.41
Adona	919005-14-4	1.39 U	C2702-FS(0)	1.000	3/23/2024	0.695	1.39	6.41
PFMPA	377-73-1	1.26 U	C2702-FS(0)	1.000	3/23/2024	0.629	1.26	3.21
PFMBA	863090-89-5	1.20 U	C2702-FS(0)	1.000	3/23/2024	0.601	1.20	3.21
NFDHA	151772-58-6	1.52 U	C2702-FS(0)	1.000	3/23/2024	0.762	1.52	3.21
9Cl-PF3ONS	756426-58-1	1.40 U	C2702-FS(0)	1.000	3/23/2024	0.700	1.40	6.41
11Cl-PF3OUdS	763051-92-9	2.18 U	C2702-FS(0)	1.000	3/23/2024	1.09	2.18	6.41
PFEESA	113507-82-7	0.425 U	C2702-FS(0)	1.000	3/23/2024	0.212	0.425	3.21
3:3 FTCA	356-02-5	3.35 U	C2702-FS(0)	1.000	3/23/2024	1.67	3.35	8.02
5:3 FTCA	914637-49-3	8.94 U	C2702-FS(0)	1.000	3/23/2024	4.47	8.94	40.1
7:3 FTCA	812-70-4	10.5 U	C2702-FS(0)	1.000	3/23/2024	5.23	10.5	40.1

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-19-20240320
Battelle ID	C2702-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	88	C2702-FS(0)	3/23/2024
13C5-PFPeA	96	C2702-FS(0)	3/23/2024
13C5-PFHxA	81	C2702-FS(0)	3/23/2024
13C4-PFHpA	89	C2702-FS(0)	3/23/2024
13C8-PFOA	88	C2702-FS(0)	3/23/2024
13C9-PFNA	93	C2702-FS(0)	3/23/2024
13C6-PFDA	90	C2702-FS(0)	3/23/2024
13C7-PFUnA	70	C2702-FS(0)	3/23/2024
13C2-PFDoA	63	C2702-FS(0)	3/23/2024
13C2-PFTeDA	37	C2702-FS(0)	3/23/2024
13C3-PFBS	93	C2702-FS(0)	3/23/2024
13C3-PFHxS	95	C2702-FS(0)	3/23/2024
13C8-PFOS	87	C2702-FS(0)	3/23/2024
13C2-4:2FTS	109	C2702-FS(0)	3/23/2024
13C2-6:2FTS	102	C2702-FS(0)	3/23/2024
13C2-8:2FTS	95	C2702-FS(0)	3/23/2024
13C8-PFOSA	83	C2702-FS(0)	3/23/2024
d3-MeFOSA	58	C2702-FS(0)	3/23/2024
d5-EtFOSA	45	C2702-FS(0)	3/23/2024
d3-MeFOSAA	84	C2702-FS(0)	3/23/2024
d5-EtFOSAA	88	C2702-FS(0)	3/23/2024
d7-MeFOSE	56	C2702-FS(0)	3/23/2024
d9-EtFOSE	43	C2702-FS(0)	3/23/2024
13C3-HFPO-DA	104	C2702-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	74	C2702-FS(0)	3/23/2024
13C2-PFHxA	74	C2702-FS(0)	3/23/2024
13C4-PFOA	71	C2702-FS(0)	3/23/2024
13C5-PFNA	71	C2702-FS(0)	3/23/2024
13C2-PFDA	75	C2702-FS(0)	3/23/2024
18O2-PFHxS	73	C2702-FS(0)	3/23/2024
13C4-PFOS	72	C2702-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-17-20240320
Battelle ID	C2703-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.490
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.12	C2703-FS(0)	1.000	3/23/2024	0.609	1.22	6.53
PFPeA	2706-90-3	11.7	C2703-FS(0)	1.000	3/23/2024	0.574	1.15	3.27
PFHxA	307-24-4	13.4	C2703-FS(0)	1.000	3/23/2024	0.420	0.841	1.63
PFHpA	375-85-9	6.48	C2703-FS(0)	1.000	3/23/2024	0.177	0.353	1.63
PFOA	335-67-1	15.0	C2703-FS(0)	1.000	3/23/2024	0.296	0.592	1.63
PFNA	375-95-1	2.36	C2703-FS(0)	1.000	3/23/2024	0.255	0.510	1.63
PFDA	335-76-2	0.455 U	C2703-FS(0)	1.000	3/23/2024	0.228	0.455	1.63
PFUnA	2058-94-8	0.414 U	C2703-FS(0)	1.000	3/23/2024	0.207	0.414	1.63
PFDoA	307-55-1	0.614 U	C2703-FS(0)	1.000	3/23/2024	0.307	0.614	1.63
PFTrDA	72629-94-8	0.741 U	C2703-FS(0)	1.000	3/23/2024	0.370	0.741	1.63
PFTeDA	376-06-7	0.876 U	C2703-FS(0)	1.000	3/23/2024	0.438	0.876	1.63
PFBS	375-73-5	9.25	C2703-FS(0)	1.000	3/23/2024	0.181	0.361	1.63
PFPeS	2706-91-4	5.79	C2703-FS(0)	1.000	3/23/2024	0.132	0.263	1.63
PFHxS	355-46-4	43.7	C2703-FS(0)	1.000	3/23/2024	0.297	0.594	1.63
PFHpS	375-92-8	1.18 J	C2703-FS(0)	1.000	3/23/2024	0.208	0.416	1.63
PFOS	1763-23-1	62.1	C2703-FS(0)	1.000	3/23/2024	0.253	0.506	1.63
PFNS	68259-12-1	0.508 U	C2703-FS(0)	1.000	3/23/2024	0.254	0.508	1.63
PFDS	335-77-3	0.331 U	C2703-FS(0)	1.000	3/23/2024	0.165	0.331	1.63
PFDoS	79780-39-5	0.367 U	C2703-FS(0)	1.000	3/23/2024	0.184	0.367	1.63
4:2FTS	757124-72-4	2.69 U	C2703-FS(0)	1.000	3/23/2024	1.35	2.69	6.53
6:2FTS	27619-97-2	2.43 J	C2703-FS(0)	1.000	3/23/2024	1.51	3.02	6.53
8:2FTS	39108-34-4	1.87 U	C2703-FS(0)	1.000	3/23/2024	0.935	1.87	6.53
PFOSA	754-91-6	0.384 U	C2703-FS(0)	1.000	3/23/2024	0.192	0.384	1.63
NMeFOSA	31506-32-8	0.406 U	C2703-FS(0)	1.000	3/23/2024	0.203	0.406	1.63
NEtFOSA	4151-50-2	0.204 U	C2703-FS(0)	1.000	3/23/2024	0.102	0.204	1.63
NMeFOSAA	2355-31-9	1.34 U	C2703-FS(0)	1.000	3/23/2024	0.668	1.34	1.63
NEtFOSAA	2991-50-6	1.17 U	C2703-FS(0)	1.000	3/23/2024	0.583	1.17	1.63
NMeFOSE	24448-09-7	3.37 U	C2703-FS(0)	1.000	3/23/2024	1.68	3.37	16.3
NEtFOSE	1691-99-2	2.96 U	C2703-FS(0)	1.000	3/23/2024	1.48	2.96	16.3
HFPO-DA	13252-13-6	1.53 U	C2703-FS(0)	1.000	3/23/2024	0.763	1.53	6.53
Adona	919005-14-4	1.42 U	C2703-FS(0)	1.000	3/23/2024	0.708	1.42	6.53
PFMPA	377-73-1	1.28 U	C2703-FS(0)	1.000	3/23/2024	0.641	1.28	3.27
PFMBA	863090-89-5	1.22 U	C2703-FS(0)	1.000	3/23/2024	0.612	1.22	3.27
NFDHA	151772-58-6	1.55 U	C2703-FS(0)	1.000	3/23/2024	0.776	1.55	3.27
9Cl-PF3ONS	756426-58-1	1.43 U	C2703-FS(0)	1.000	3/23/2024	0.713	1.43	6.53
11Cl-PF3OUdS	763051-92-9	2.22 U	C2703-FS(0)	1.000	3/23/2024	1.11	2.22	6.53
PFEESA	113507-82-7	0.433 U	C2703-FS(0)	1.000	3/23/2024	0.216	0.433	3.27
3:3 FTCA	356-02-5	3.41 U	C2703-FS(0)	1.000	3/23/2024	1.70	3.41	8.16
5:3 FTCA	914637-49-3	9.10 U	C2703-FS(0)	1.000	3/23/2024	4.55	9.10	40.8
7:3 FTCA	812-70-4	10.7 U	C2703-FS(0)	1.000	3/23/2024	5.33	10.7	40.8

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-17-20240320
Battelle ID	C2703-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	96	C2703-FS(0)	3/23/2024
13C5-PFPeA	115	C2703-FS(0)	3/23/2024
13C5-PFHxA	93	C2703-FS(0)	3/23/2024
13C4-PFHpA	100	C2703-FS(0)	3/23/2024
13C8-PFOA	104	C2703-FS(0)	3/23/2024
13C9-PFNA	96	C2703-FS(0)	3/23/2024
13C6-PFDA	90	C2703-FS(0)	3/23/2024
13C7-PFUnA	66	C2703-FS(0)	3/23/2024
13C2-PFDoA	61	C2703-FS(0)	3/23/2024
13C2-PFTeDA	38	C2703-FS(0)	3/23/2024
13C3-PFBS	93	C2703-FS(0)	3/23/2024
13C3-PFHxS	98	C2703-FS(0)	3/23/2024
13C8-PFOS	102	C2703-FS(0)	3/23/2024
13C2-4:2FTS	115	C2703-FS(0)	3/23/2024
13C2-6:2FTS	111	C2703-FS(0)	3/23/2024
13C2-8:2FTS	107	C2703-FS(0)	3/23/2024
13C8-PFOSA	88	C2703-FS(0)	3/23/2024
d3-MeFOSA	58	C2703-FS(0)	3/23/2024
d5-EtFOSA	50	C2703-FS(0)	3/23/2024
d3-MeFOSAA	94	C2703-FS(0)	3/23/2024
d5-EtFOSAA	88	C2703-FS(0)	3/23/2024
d7-MeFOSE	60	C2703-FS(0)	3/23/2024
d9-EtFOSE	47	C2703-FS(0)	3/23/2024
13C3-HFPO-DA	107	C2703-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	89	C2703-FS(0)	3/23/2024
13C2-PFHxA	82	C2703-FS(0)	3/23/2024
13C4-PFOA	86	C2703-FS(0)	3/23/2024
13C5-PFNA	86	C2703-FS(0)	3/23/2024
13C2-PFDA	88	C2703-FS(0)	3/23/2024
18O2-PFHxS	87	C2703-FS(0)	3/23/2024
13C4-PFOS	81	C2703-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-28-20240320
Battelle ID	C2704-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.514
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	41.5	C2704-FS(0)	1.000	3/23/2024	0.581	1.16	6.23
PFPeA	2706-90-3	71.0	C2704-FS(0)	1.000	3/23/2024	0.548	1.10	3.11
PFHxA	307-24-4	62.5	C2704-FS(0)	1.000	3/23/2024	0.401	0.802	1.56
PFHpA	375-85-9	17.4	C2704-FS(0)	1.000	3/23/2024	0.168	0.337	1.56
PFOA	335-67-1	41.2	C2704-FS(0)	1.000	3/23/2024	0.282	0.564	1.56
PFNA	375-95-1	3.18	C2704-FS(0)	1.000	3/23/2024	0.243	0.486	1.56
PFDA	335-76-2	0.434 U	C2704-FS(0)	1.000	3/23/2024	0.217	0.434	1.56
PFUnA	2058-94-8	0.395 U	C2704-FS(0)	1.000	3/23/2024	0.197	0.395	1.56
PFDoA	307-55-1	0.586 U	C2704-FS(0)	1.000	3/23/2024	0.293	0.586	1.56
PFTrDA	72629-94-8	0.706 U	C2704-FS(0)	1.000	3/23/2024	0.353	0.706	1.56
PFTeDA	376-06-7	0.835 U	C2704-FS(0)	1.000	3/23/2024	0.417	0.835	1.56
PFBS	375-73-5	19.9	C2704-FS(0)	1.000	3/23/2024	0.172	0.344	1.56
PFPeS	2706-91-4	22.7	C2704-FS(0)	1.000	3/23/2024	0.125	0.251	1.56
PFHxS	355-46-4	151	C2704-FS(0)	1.000	3/23/2024	0.283	0.566	1.56
PFHpS	375-92-8	6.65	C2704-FS(0)	1.000	3/23/2024	0.198	0.397	1.56
PFOS	1763-23-1	360	C2704-FS(0)	1.000	3/23/2024	0.241	0.482	1.56
PFNS	68259-12-1	0.484 U	C2704-FS(0)	1.000	3/23/2024	0.242	0.484	1.56
PFDS	335-77-3	0.315 U	C2704-FS(0)	1.000	3/23/2024	0.158	0.315	1.56
PFDoS	79780-39-5	0.350 U	C2704-FS(0)	1.000	3/23/2024	0.175	0.350	1.56
4:2FTS	757124-72-4	2.57 U	C2704-FS(0)	1.000	3/23/2024	1.28	2.57	6.23
6:2FTS	27619-97-2	94.9	C2704-FS(0)	1.000	3/23/2024	1.44	2.88	6.23
8:2FTS	39108-34-4	1.78 U	C2704-FS(0)	1.000	3/23/2024	0.891	1.78	6.23
PFOSA	754-91-6	0.366 U	C2704-FS(0)	1.000	3/23/2024	0.183	0.366	1.56
NMeFOSA	31506-32-8	0.387 U	C2704-FS(0)	1.000	3/23/2024	0.194	0.387	1.56
NEtFOSA	4151-50-2	0.194 U	C2704-FS(0)	1.000	3/23/2024	0.0971	0.194	1.56
NMeFOSAA	2355-31-9	1.27 U	C2704-FS(0)	1.000	3/23/2024	0.637	1.27	1.56
NEtFOSAA	2991-50-6	1.11 U	C2704-FS(0)	1.000	3/23/2024	0.555	1.11	1.56
NMeFOSE	24448-09-7	3.21 U	C2704-FS(0)	1.000	3/23/2024	1.61	3.21	15.6
NEtFOSE	1691-99-2	2.82 U	C2704-FS(0)	1.000	3/23/2024	1.41	2.82	15.6
HFPO-DA	13252-13-6	1.46 U	C2704-FS(0)	1.000	3/23/2024	0.728	1.46	6.23
Adona	919005-14-4	1.35 U	C2704-FS(0)	1.000	3/23/2024	0.675	1.35	6.23
PFMPA	377-73-1	1.22 U	C2704-FS(0)	1.000	3/23/2024	0.611	1.22	3.11
PFMBA	863090-89-5	1.17 U	C2704-FS(0)	1.000	3/23/2024	0.584	1.17	3.11
NFDHA	151772-58-6	1.48 U	C2704-FS(0)	1.000	3/23/2024	0.739	1.48	3.11
9Cl-PF3ONS	756426-58-1	1.36 U	C2704-FS(0)	1.000	3/23/2024	0.680	1.36	6.23
11Cl-PF3OUdS	763051-92-9	2.12 U	C2704-FS(0)	1.000	3/23/2024	1.06	2.12	6.23
PFEESA	113507-82-7	0.412 U	C2704-FS(0)	1.000	3/23/2024	0.206	0.412	3.11
3:3 FTCA	356-02-5	3.25 U	C2704-FS(0)	1.000	3/23/2024	1.62	3.25	7.78
5:3 FTCA	914637-49-3	8.68 U	C2704-FS(0)	1.000	3/23/2024	4.34	8.68	38.9
7:3 FTCA	812-70-4	10.2 U	C2704-FS(0)	1.000	3/23/2024	5.08	10.2	38.9

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-28-20240320
Battelle ID	C2704-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	98	C2704-FS(0)	3/23/2024
13C5-PFPeA	106	C2704-FS(0)	3/23/2024
13C5-PFHxA	93	C2704-FS(0)	3/23/2024
13C4-PFHpA	105	C2704-FS(0)	3/23/2024
13C8-PFOA	105	C2704-FS(0)	3/23/2024
13C9-PFNA	105	C2704-FS(0)	3/23/2024
13C6-PFDA	92	C2704-FS(0)	3/23/2024
13C7-PFUnA	74	C2704-FS(0)	3/23/2024
13C2-PFDoA	59	C2704-FS(0)	3/23/2024
13C2-PFTeDA	34	C2704-FS(0)	3/23/2024
13C3-PFBS	102	C2704-FS(0)	3/23/2024
13C3-PFHxS	97	C2704-FS(0)	3/23/2024
13C8-PFOS	104	C2704-FS(0)	3/23/2024
13C2-4:2FTS	120	C2704-FS(0)	3/23/2024
13C2-6:2FTS	102	C2704-FS(0)	3/23/2024
13C2-8:2FTS	86	C2704-FS(0)	3/23/2024
13C8-PFOSA	87	C2704-FS(0)	3/23/2024
d3-MeFOSA	59	C2704-FS(0)	3/23/2024
d5-EtFOSA	50	C2704-FS(0)	3/23/2024
d3-MeFOSAA	89	C2704-FS(0)	3/23/2024
d5-EtFOSAA	95	C2704-FS(0)	3/23/2024
d7-MeFOSE	57	C2704-FS(0)	3/23/2024
d9-EtFOSE	42	C2704-FS(0)	3/23/2024
13C3-HFPO-DA	98	C2704-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	71	C2704-FS(0)	3/23/2024
13C2-PFHxA	69	C2704-FS(0)	3/23/2024
13C4-PFOA	67	C2704-FS(0)	3/23/2024
13C5-PFNA	66	C2704-FS(0)	3/23/2024
13C2-PFDA	77	C2704-FS(0)	3/23/2024
18O2-PFHxS	72	C2704-FS(0)	3/23/2024
13C4-PFOS	70	C2704-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-14-20240320
Battelle ID	C2705-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.528
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	6.50	C2705-FS(0)	1.000	3/23/2024	0.565	1.13	6.06
PFPeA	2706-90-3	9.46	C2705-FS(0)	1.000	3/23/2024	0.533	1.07	3.03
PFHxA	307-24-4	11.9	C2705-FS(0)	1.000	3/23/2024	0.390	0.780	1.52
PFHpA	375-85-9	5.51	C2705-FS(0)	1.000	3/23/2024	0.164	0.328	1.52
PFOA	335-67-1	14.7	C2705-FS(0)	1.000	3/23/2024	0.275	0.549	1.52
PFNA	375-95-1	2.44	C2705-FS(0)	1.000	3/23/2024	0.237	0.473	1.52
PFDA	335-76-2	0.422 U	C2705-FS(0)	1.000	3/23/2024	0.211	0.422	1.52
PFUnA	2058-94-8	0.384 U	C2705-FS(0)	1.000	3/23/2024	0.192	0.384	1.52
PFDoA	307-55-1	0.570 U	C2705-FS(0)	1.000	3/23/2024	0.285	0.570	1.52
PFTrDA	72629-94-8	0.688 U	C2705-FS(0)	1.000	3/23/2024	0.344	0.688	1.52
PFTeDA	376-06-7	0.813 U	C2705-FS(0)	1.000	3/23/2024	0.406	0.813	1.52
PFBS	375-73-5	8.63	C2705-FS(0)	1.000	3/23/2024	0.168	0.335	1.52
PFPeS	2706-91-4	5.21	C2705-FS(0)	1.000	3/23/2024	0.122	0.244	1.52
PFHxS	355-46-4	37.3	C2705-FS(0)	1.000	3/23/2024	0.276	0.551	1.52
PFHpS	375-92-8	1.03 J	C2705-FS(0)	1.000	3/23/2024	0.193	0.386	1.52
PFOS	1763-23-1	54.8	C2705-FS(0)	1.000	3/23/2024	0.235	0.470	1.52
PFNS	68259-12-1	0.472 U	C2705-FS(0)	1.000	3/23/2024	0.236	0.472	1.52
PFDS	335-77-3	0.307 U	C2705-FS(0)	1.000	3/23/2024	0.153	0.307	1.52
PFDoS	79780-39-5	0.341 U	C2705-FS(0)	1.000	3/23/2024	0.170	0.341	1.52
4:2FTS	757124-72-4	2.50 U	C2705-FS(0)	1.000	3/23/2024	1.25	2.50	6.06
6:2FTS	27619-97-2	1.70 J	C2705-FS(0)	1.000	3/23/2024	1.40	2.80	6.06
8:2FTS	39108-34-4	1.73 U	C2705-FS(0)	1.000	3/23/2024	0.867	1.73	6.06
PFOSA	754-91-6	0.356 U	C2705-FS(0)	1.000	3/23/2024	0.178	0.356	1.52
NMeFOSA	31506-32-8	0.377 U	C2705-FS(0)	1.000	3/23/2024	0.188	0.377	1.52
NEtFOSA	4151-50-2	0.189 U	C2705-FS(0)	1.000	3/23/2024	0.0945	0.189	1.52
NMeFOSAA	2355-31-9	1.24 U	C2705-FS(0)	1.000	3/23/2024	0.620	1.24	1.52
NEtFOSAA	2991-50-6	1.08 U	C2705-FS(0)	1.000	3/23/2024	0.541	1.08	1.52
NMeFOSE	24448-09-7	3.13 U	C2705-FS(0)	1.000	3/23/2024	1.56	3.13	15.2
NEtFOSE	1691-99-2	2.75 U	C2705-FS(0)	1.000	3/23/2024	1.37	2.75	15.2
HFPO-DA	13252-13-6	1.42 U	C2705-FS(0)	1.000	3/23/2024	0.708	1.42	6.06
Adona	919005-14-4	1.31 U	C2705-FS(0)	1.000	3/23/2024	0.657	1.31	6.06
PFMPA	377-73-1	1.19 U	C2705-FS(0)	1.000	3/23/2024	0.595	1.19	3.03
PFMBA	863090-89-5	1.14 U	C2705-FS(0)	1.000	3/23/2024	0.568	1.14	3.03
NFDHA	151772-58-6	1.44 U	C2705-FS(0)	1.000	3/23/2024	0.720	1.44	3.03
9Cl-PF3ONS	756426-58-1	1.32 U	C2705-FS(0)	1.000	3/23/2024	0.662	1.32	6.06
11Cl-PF3OUdS	763051-92-9	2.06 U	C2705-FS(0)	1.000	3/23/2024	1.03	2.06	6.06
PFEESA	113507-82-7	0.402 U	C2705-FS(0)	1.000	3/23/2024	0.201	0.402	3.03
3:3 FTCA	356-02-5	3.16 U	C2705-FS(0)	1.000	3/23/2024	1.58	3.16	7.58
5:3 FTCA	914637-49-3	8.45 U	C2705-FS(0)	1.000	3/23/2024	4.22	8.45	37.9
7:3 FTCA	812-70-4	9.89 U	C2705-FS(0)	1.000	3/23/2024	4.94	9.89	37.9

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-14-20240320
Battelle ID	C2705-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	99	C2705-FS(0)	3/23/2024
13C5-PFPeA	115	C2705-FS(0)	3/23/2024
13C5-PFHxA	97	C2705-FS(0)	3/23/2024
13C4-PFHpA	103	C2705-FS(0)	3/23/2024
13C8-PFOA	101	C2705-FS(0)	3/23/2024
13C9-PFNA	105	C2705-FS(0)	3/23/2024
13C6-PFDA	97	C2705-FS(0)	3/23/2024
13C7-PFUnA	89	C2705-FS(0)	3/23/2024
13C2-PFDoA	80	C2705-FS(0)	3/23/2024
13C2-PFTeDA	43	C2705-FS(0)	3/23/2024
13C3-PFBS	108	C2705-FS(0)	3/23/2024
13C3-PFHxS	96	C2705-FS(0)	3/23/2024
13C8-PFOS	100	C2705-FS(0)	3/23/2024
13C2-4:2FTS	119	C2705-FS(0)	3/23/2024
13C2-6:2FTS	122	C2705-FS(0)	3/23/2024
13C2-8:2FTS	101	C2705-FS(0)	3/23/2024
13C8-PFOSA	91	C2705-FS(0)	3/23/2024
d3-MeFOSA	71	C2705-FS(0)	3/23/2024
d5-EtFOSA	63	C2705-FS(0)	3/23/2024
d3-MeFOSAA	97	C2705-FS(0)	3/23/2024
d5-EtFOSAA	107	C2705-FS(0)	3/23/2024
d7-MeFOSE	70	C2705-FS(0)	3/23/2024
d9-EtFOSE	55	C2705-FS(0)	3/23/2024
13C3-HFPO-DA	103	C2705-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	71	C2705-FS(0)	3/23/2024
13C2-PFHxA	66	C2705-FS(0)	3/23/2024
13C4-PFOA	70	C2705-FS(0)	3/23/2024
13C5-PFNA	64	C2705-FS(0)	3/23/2024
13C2-PFDA	69	C2705-FS(0)	3/23/2024
18O2-PFHxS	66	C2705-FS(0)	3/23/2024
13C4-PFOS	67	C2705-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-63-20240320
Battelle ID	C2706-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.522
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	5.71 J	C2706-FS(0)	1.000	3/23/2024	0.572	1.14	6.13
PFPeA	2706-90-3	6.65	C2706-FS(0)	1.000	3/23/2024	0.539	1.08	3.07
PFHxA	307-24-4	8.43	C2706-FS(0)	1.000	3/23/2024	0.395	0.789	1.53
PFHpA	375-85-9	4.74	C2706-FS(0)	1.000	3/23/2024	0.166	0.331	1.53
PFOA	335-67-1	13.0	C2706-FS(0)	1.000	3/23/2024	0.278	0.556	1.53
PFNA	375-95-1	2.26	C2706-FS(0)	1.000	3/23/2024	0.239	0.479	1.53
PFDA	335-76-2	0.427 U	C2706-FS(0)	1.000	3/23/2024	0.214	0.427	1.53
PFUnA	2058-94-8	0.389 U	C2706-FS(0)	1.000	3/23/2024	0.194	0.389	1.53
PFDoA	307-55-1	0.577 U	C2706-FS(0)	1.000	3/23/2024	0.288	0.577	1.53
PFTrDA	72629-94-8	0.695 U	C2706-FS(0)	1.000	3/23/2024	0.348	0.695	1.53
PFTeDA	376-06-7	0.822 U	C2706-FS(0)	1.000	3/23/2024	0.411	0.822	1.53
PFBS	375-73-5	6.76	C2706-FS(0)	1.000	3/23/2024	0.170	0.339	1.53
PFPeS	2706-91-4	2.74	C2706-FS(0)	1.000	3/23/2024	0.124	0.247	1.53
PFHxS	355-46-4	19.2	C2706-FS(0)	1.000	3/23/2024	0.279	0.557	1.53
PFHpS	375-92-8	0.770 J	C2706-FS(0)	1.000	3/23/2024	0.195	0.391	1.53
PFOS	1763-23-1	36.7	C2706-FS(0)	1.000	3/23/2024	0.238	0.475	1.53
PFNS	68259-12-1	0.477 U	C2706-FS(0)	1.000	3/23/2024	0.239	0.477	1.53
PFDS	335-77-3	0.310 U	C2706-FS(0)	1.000	3/23/2024	0.155	0.310	1.53
PFDoS	79780-39-5	0.345 U	C2706-FS(0)	1.000	3/23/2024	0.172	0.345	1.53
4:2FTS	757124-72-4	2.53 U	C2706-FS(0)	1.000	3/23/2024	1.26	2.53	6.13
6:2FTS	27619-97-2	2.84 U	C2706-FS(0)	1.000	3/23/2024	1.42	2.84	6.13
8:2FTS	39108-34-4	1.75 U	C2706-FS(0)	1.000	3/23/2024	0.877	1.75	6.13
PFOSA	754-91-6	0.360 U	C2706-FS(0)	1.000	3/23/2024	0.180	0.360	1.53
NMeFOSA	31506-32-8	0.381 U	C2706-FS(0)	1.000	3/23/2024	0.191	0.381	1.53
NEtFOSA	4151-50-2	0.191 U	C2706-FS(0)	1.000	3/23/2024	0.0956	0.191	1.53
NMeFOSAA	2355-31-9	1.25 U	C2706-FS(0)	1.000	3/23/2024	0.627	1.25	1.53
NEtFOSAA	2991-50-6	1.09 U	C2706-FS(0)	1.000	3/23/2024	0.547	1.09	1.53
NMeFOSE	24448-09-7	3.16 U	C2706-FS(0)	1.000	3/23/2024	1.58	3.16	15.3
NEtFOSE	1691-99-2	2.78 U	C2706-FS(0)	1.000	3/23/2024	1.39	2.78	15.3
HFPO-DA	13252-13-6	1.43 U	C2706-FS(0)	1.000	3/23/2024	0.716	1.43	6.13
Adona	919005-14-4	1.33 U	C2706-FS(0)	1.000	3/23/2024	0.665	1.33	6.13
PFMPA	377-73-1	1.20 U	C2706-FS(0)	1.000	3/23/2024	0.602	1.20	3.07
PFMBA	863090-89-5	1.15 U	C2706-FS(0)	1.000	3/23/2024	0.575	1.15	3.07
NFDHA	151772-58-6	1.46 U	C2706-FS(0)	1.000	3/23/2024	0.728	1.46	3.07
9Cl-PF3ONS	756426-58-1	1.34 U	C2706-FS(0)	1.000	3/23/2024	0.670	1.34	6.13
11Cl-PF3OUdS	763051-92-9	2.09 U	C2706-FS(0)	1.000	3/23/2024	1.04	2.09	6.13
PFEESA	113507-82-7	0.406 U	C2706-FS(0)	1.000	3/23/2024	0.203	0.406	3.07
3:3 FTCA	356-02-5	3.20 U	C2706-FS(0)	1.000	3/23/2024	1.60	3.20	7.66
5:3 FTCA	914637-49-3	8.54 U	C2706-FS(0)	1.000	3/23/2024	4.27	8.54	38.3
7:3 FTCA	812-70-4	10.0 U	C2706-FS(0)	1.000	3/23/2024	5.00	10.0	38.3

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-63-20240320
Battelle ID	C2706-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	94	C2706-FS(0)	3/23/2024
13C5-PFPeA	108	C2706-FS(0)	3/23/2024
13C5-PFHxA	89	C2706-FS(0)	3/23/2024
13C4-PFHpA	104	C2706-FS(0)	3/23/2024
13C8-PFOA	103	C2706-FS(0)	3/23/2024
13C9-PFNA	106	C2706-FS(0)	3/23/2024
13C6-PFDA	88	C2706-FS(0)	3/23/2024
13C7-PFUnA	80	C2706-FS(0)	3/23/2024
13C2-PFDoA	76	C2706-FS(0)	3/23/2024
13C2-PFTeDA	46	C2706-FS(0)	3/23/2024
13C3-PFBS	95	C2706-FS(0)	3/23/2024
13C3-PFHxS	97	C2706-FS(0)	3/23/2024
13C8-PFOS	108	C2706-FS(0)	3/23/2024
13C2-4:2FTS	122	C2706-FS(0)	3/23/2024
13C2-6:2FTS	111	C2706-FS(0)	3/23/2024
13C2-8:2FTS	98	C2706-FS(0)	3/23/2024
13C8-PFOSA	95	C2706-FS(0)	3/23/2024
d3-MeFOSA	76	C2706-FS(0)	3/23/2024
d5-EtFOSA	62	C2706-FS(0)	3/23/2024
d3-MeFOSAA	102	C2706-FS(0)	3/23/2024
d5-EtFOSAA	112	C2706-FS(0)	3/23/2024
d7-MeFOSE	70	C2706-FS(0)	3/23/2024
d9-EtFOSE	54	C2706-FS(0)	3/23/2024
13C3-HFPO-DA	106	C2706-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	72	C2706-FS(0)	3/23/2024
13C2-PFHxA	70	C2706-FS(0)	3/23/2024
13C4-PFOA	71	C2706-FS(0)	3/23/2024
13C5-PFNA	65	C2706-FS(0)	3/23/2024
13C2-PFDA	71	C2706-FS(0)	3/23/2024
18O2-PFHxS	78	C2706-FS(0)	3/23/2024
13C4-PFOS	67	C2706-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-10-20240320
Battelle ID	C2707-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.541
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.00 J	C2707-FS(0)	1.000	3/23/2024	0.552	1.10	5.91
PFPeA	2706-90-3	3.91	C2707-FS(0)	1.000	3/23/2024	0.520	1.04	2.96
PFHxA	307-24-4	4.49	C2707-FS(0)	1.000	3/23/2024	0.381	0.762	1.48
PFHpA	375-85-9	2.87	C2707-FS(0)	1.000	3/23/2024	0.160	0.320	1.48
PFOA	335-67-1	8.18	C2707-FS(0)	1.000	3/23/2024	0.268	0.536	1.48
PFNA	375-95-1	1.82	C2707-FS(0)	1.000	3/23/2024	0.231	0.462	1.48
PFDA	335-76-2	0.346 J	C2707-FS(0)	1.000	3/23/2024	0.206	0.412	1.48
PFUnA	2058-94-8	0.375 U	C2707-FS(0)	1.000	3/23/2024	0.188	0.375	1.48
PFDoA	307-55-1	0.556 U	C2707-FS(0)	1.000	3/23/2024	0.278	0.556	1.48
PFTrDA	72629-94-8	0.671 U	C2707-FS(0)	1.000	3/23/2024	0.335	0.671	1.48
PFTeDA	376-06-7	0.793 U	C2707-FS(0)	1.000	3/23/2024	0.396	0.793	1.48
PFBS	375-73-5	4.84	C2707-FS(0)	1.000	3/23/2024	0.164	0.327	1.48
PFPeS	2706-91-4	0.497 J	C2707-FS(0)	1.000	3/23/2024	0.119	0.238	1.48
PFHxS	355-46-4	2.53	C2707-FS(0)	1.000	3/23/2024	0.269	0.538	1.48
PFHpS	375-92-8	0.377 U	C2707-FS(0)	1.000	3/23/2024	0.189	0.377	1.48
PFOS	1763-23-1	6.53	C2707-FS(0)	1.000	3/23/2024	0.229	0.458	1.48
PFNS	68259-12-1	0.460 U	C2707-FS(0)	1.000	3/23/2024	0.230	0.460	1.48
PFDS	335-77-3	0.299 U	C2707-FS(0)	1.000	3/23/2024	0.150	0.299	1.48
PFDoS	79780-39-5	0.333 U	C2707-FS(0)	1.000	3/23/2024	0.166	0.333	1.48
4:2FTS	757124-72-4	2.44 U	C2707-FS(0)	1.000	3/23/2024	1.22	2.44	5.91
6:2FTS	27619-97-2	2.74 U	C2707-FS(0)	1.000	3/23/2024	1.37	2.74	5.91
8:2FTS	39108-34-4	1.69 U	C2707-FS(0)	1.000	3/23/2024	0.847	1.69	5.91
PFOSA	754-91-6	0.348 U	C2707-FS(0)	1.000	3/23/2024	0.174	0.348	1.48
NMeFOSA	31506-32-8	0.368 U	C2707-FS(0)	1.000	3/23/2024	0.184	0.368	1.48
NEtFOSA	4151-50-2	0.184 U	C2707-FS(0)	1.000	3/23/2024	0.0922	0.184	1.48
NMeFOSAA	2355-31-9	1.21 U	C2707-FS(0)	1.000	3/23/2024	0.605	1.21	1.48
NEtFOSAA	2991-50-6	1.06 U	C2707-FS(0)	1.000	3/23/2024	0.528	1.06	1.48
NMeFOSE	24448-09-7	3.05 U	C2707-FS(0)	1.000	3/23/2024	1.52	3.05	14.8
NEtFOSE	1691-99-2	2.68 U	C2707-FS(0)	1.000	3/23/2024	1.34	2.68	14.8
HFPO-DA	13252-13-6	1.38 U	C2707-FS(0)	1.000	3/23/2024	0.691	1.38	5.91
Adona	919005-14-4	1.28 U	C2707-FS(0)	1.000	3/23/2024	0.641	1.28	5.91
PFMPA	377-73-1	1.16 U	C2707-FS(0)	1.000	3/23/2024	0.580	1.16	2.96
PFMBA	863090-89-5	1.11 U	C2707-FS(0)	1.000	3/23/2024	0.555	1.11	2.96
NFDHA	151772-58-6	1.40 U	C2707-FS(0)	1.000	3/23/2024	0.702	1.40	2.96
9Cl-PF3ONS	756426-58-1	1.29 U	C2707-FS(0)	1.000	3/23/2024	0.646	1.29	5.91
11Cl-PF3OUdS	763051-92-9	2.01 U	C2707-FS(0)	1.000	3/23/2024	1.01	2.01	5.91
PFEESA	113507-82-7	0.392 U	C2707-FS(0)	1.000	3/23/2024	0.196	0.392	2.96
3:3 FTCA	356-02-5	3.09 U	C2707-FS(0)	1.000	3/23/2024	1.54	3.09	7.39
5:3 FTCA	914637-49-3	8.24 U	C2707-FS(0)	1.000	3/23/2024	4.12	8.24	37.0
7:3 FTCA	812-70-4	9.65 U	C2707-FS(0)	1.000	3/23/2024	4.82	9.65	37.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-10-20240320
Battelle ID	C2707-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	102	C2707-FS(0)	3/23/2024
13C5-PFPeA	121	C2707-FS(0)	3/23/2024
13C5-PFHxA	100	C2707-FS(0)	3/23/2024
13C4-PFHpA	116	C2707-FS(0)	3/23/2024
13C8-PFOA	106	C2707-FS(0)	3/23/2024
13C9-PFNA	110	C2707-FS(0)	3/23/2024
13C6-PFDA	104	C2707-FS(0)	3/23/2024
13C7-PFUnA	96	C2707-FS(0)	3/23/2024
13C2-PFDoA	80	C2707-FS(0)	3/23/2024
13C2-PFTeDA	45	C2707-FS(0)	3/23/2024
13C3-PFBS	112	C2707-FS(0)	3/23/2024
13C3-PFHxS	111	C2707-FS(0)	3/23/2024
13C8-PFOS	107	C2707-FS(0)	3/23/2024
13C2-4:2FTS	138	C2707-FS(0)	3/23/2024
13C2-6:2FTS	136	C2707-FS(0)	3/23/2024
13C2-8:2FTS	116	C2707-FS(0)	3/23/2024
13C8-PFOSA	98	C2707-FS(0)	3/23/2024
d3-MeFOSA	77	C2707-FS(0)	3/23/2024
d5-EtFOSA	66	C2707-FS(0)	3/23/2024
d3-MeFOSAA	109	C2707-FS(0)	3/23/2024
d5-EtFOSAA	112	C2707-FS(0)	3/23/2024
d7-MeFOSE	72	C2707-FS(0)	3/23/2024
d9-EtFOSE	54	C2707-FS(0)	3/23/2024
13C3-HFPO-DA	106	C2707-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	67	C2707-FS(0)	3/23/2024
13C2-PFHxA	66	C2707-FS(0)	3/23/2024
13C4-PFOA	69	C2707-FS(0)	3/23/2024
13C5-PFNA	65	C2707-FS(0)	3/23/2024
13C2-PFDA	65	C2707-FS(0)	3/23/2024
18O2-PFHxS	63	C2707-FS(0)	3/23/2024
13C4-PFOS	64	C2707-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-05-20240320
Battelle ID	C2708-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.523
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	7.99	C2708-FS(0)	1.000	3/23/2024	0.571	1.14	6.12
PFPeA	2706-90-3	12.7	C2708-FS(0)	1.000	3/23/2024	0.538	1.08	3.06
PFHxA	307-24-4	17.0	C2708-FS(0)	1.000	3/23/2024	0.394	0.788	1.53
PFHpA	375-85-9	8.48	C2708-FS(0)	1.000	3/23/2024	0.165	0.331	1.53
PFOA	335-67-1	23.3	C2708-FS(0)	1.000	3/23/2024	0.277	0.554	1.53
PFNA	375-95-1	2.76	C2708-FS(0)	1.000	3/23/2024	0.239	0.478	1.53
PFDA	335-76-2	0.340 J	C2708-FS(0)	1.000	3/23/2024	0.213	0.426	1.53
PFUnA	2058-94-8	0.388 U	C2708-FS(0)	1.000	3/23/2024	0.194	0.388	1.53
PFDoA	307-55-1	0.576 U	C2708-FS(0)	1.000	3/23/2024	0.288	0.576	1.53
PFTrDA	72629-94-8	0.694 U	C2708-FS(0)	1.000	3/23/2024	0.347	0.694	1.53
PFTeDA	376-06-7	0.820 U	C2708-FS(0)	1.000	3/23/2024	0.410	0.820	1.53
PFBS	375-73-5	12.8	C2708-FS(0)	1.000	3/23/2024	0.169	0.338	1.53
PFPeS	2706-91-4	8.27	C2708-FS(0)	1.000	3/23/2024	0.123	0.247	1.53
PFHxS	355-46-4	58.7	C2708-FS(0)	1.000	3/23/2024	0.278	0.556	1.53
PFHpS	375-92-8	2.23	C2708-FS(0)	1.000	3/23/2024	0.195	0.390	1.53
PFOS	1763-23-1	109	C2708-FS(0)	1.000	3/23/2024	0.237	0.474	1.53
PFNS	68259-12-1	0.476 U	C2708-FS(0)	1.000	3/23/2024	0.238	0.476	1.53
PFDS	335-77-3	0.310 U	C2708-FS(0)	1.000	3/23/2024	0.155	0.310	1.53
PFDoS	79780-39-5	0.344 U	C2708-FS(0)	1.000	3/23/2024	0.172	0.344	1.53
4:2FTS	757124-72-4	2.52 U	C2708-FS(0)	1.000	3/23/2024	1.26	2.52	6.12
6:2FTS	27619-97-2	3.59 J	C2708-FS(0)	1.000	3/23/2024	1.41	2.83	6.12
8:2FTS	39108-34-4	1.75 U	C2708-FS(0)	1.000	3/23/2024	0.876	1.75	6.12
PFOSA	754-91-6	0.359 U	C2708-FS(0)	1.000	3/23/2024	0.180	0.359	1.53
NMeFOSA	31506-32-8	0.380 U	C2708-FS(0)	1.000	3/23/2024	0.190	0.380	1.53
NEtFOSA	4151-50-2	0.191 U	C2708-FS(0)	1.000	3/23/2024	0.0954	0.191	1.53
NMeFOSAA	2355-31-9	1.25 U	C2708-FS(0)	1.000	3/23/2024	0.626	1.25	1.53
NEtFOSAA	2991-50-6	1.09 U	C2708-FS(0)	1.000	3/23/2024	0.546	1.09	1.53
NMeFOSE	24448-09-7	3.15 U	C2708-FS(0)	1.000	3/23/2024	1.58	3.15	15.3
NEtFOSE	1691-99-2	2.77 U	C2708-FS(0)	1.000	3/23/2024	1.39	2.77	15.3
HFPO-DA	13252-13-6	1.43 U	C2708-FS(0)	1.000	3/23/2024	0.715	1.43	6.12
Adona	919005-14-4	1.33 U	C2708-FS(0)	1.000	3/23/2024	0.663	1.33	6.12
PFMPA	377-73-1	1.20 U	C2708-FS(0)	1.000	3/23/2024	0.600	1.20	3.06
PFMBA	863090-89-5	1.15 U	C2708-FS(0)	1.000	3/23/2024	0.574	1.15	3.06
NFDHA	151772-58-6	1.45 U	C2708-FS(0)	1.000	3/23/2024	0.727	1.45	3.06
9Cl-PF3ONS	756426-58-1	1.34 U	C2708-FS(0)	1.000	3/23/2024	0.668	1.34	6.12
11Cl-PF3OUdS	763051-92-9	2.08 U	C2708-FS(0)	1.000	3/23/2024	1.04	2.08	6.12
PFEESA	113507-82-7	0.405 U	C2708-FS(0)	1.000	3/23/2024	0.203	0.405	3.06
3:3 FTCA	356-02-5	3.19 U	C2708-FS(0)	1.000	3/23/2024	1.60	3.19	7.65
5:3 FTCA	914637-49-3	8.53 U	C2708-FS(0)	1.000	3/23/2024	4.26	8.53	38.2
7:3 FTCA	812-70-4	9.98 U	C2708-FS(0)	1.000	3/23/2024	4.99	9.98	38.2

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-05-20240320
Battelle ID	C2708-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	104	C2708-FS(0)	3/23/2024
13C5-PFPeA	115	C2708-FS(0)	3/23/2024
13C5-PFHxA	90	C2708-FS(0)	3/23/2024
13C4-PFHpA	102	C2708-FS(0)	3/23/2024
13C8-PFOA	107	C2708-FS(0)	3/23/2024
13C9-PFNA	110	C2708-FS(0)	3/23/2024
13C6-PFDA	96	C2708-FS(0)	3/23/2024
13C7-PFUnA	82	C2708-FS(0)	3/23/2024
13C2-PFDoA	68	C2708-FS(0)	3/23/2024
13C2-PFTeDA	41	C2708-FS(0)	3/23/2024
13C3-PFBS	99	C2708-FS(0)	3/23/2024
13C3-PFHxS	101	C2708-FS(0)	3/23/2024
13C8-PFOS	105	C2708-FS(0)	3/23/2024
13C2-4:2FTS	118	C2708-FS(0)	3/23/2024
13C2-6:2FTS	123	C2708-FS(0)	3/23/2024
13C2-8:2FTS	105	C2708-FS(0)	3/23/2024
13C8-PFOSA	95	C2708-FS(0)	3/23/2024
d3-MeFOSA	62	C2708-FS(0)	3/23/2024
d5-EtFOSA	53	C2708-FS(0)	3/23/2024
d3-MeFOSAA	96	C2708-FS(0)	3/23/2024
d5-EtFOSAA	106	C2708-FS(0)	3/23/2024
d7-MeFOSE	62	C2708-FS(0)	3/23/2024
d9-EtFOSE	48	C2708-FS(0)	3/23/2024
13C3-HFPO-DA	103	C2708-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	79	C2708-FS(0)	3/23/2024
13C2-PFHxA	78	C2708-FS(0)	3/23/2024
13C4-PFOA	75	C2708-FS(0)	3/23/2024
13C5-PFNA	76	C2708-FS(0)	3/23/2024
13C2-PFDA	79	C2708-FS(0)	3/23/2024
18O2-PFHxS	80	C2708-FS(0)	3/23/2024
13C4-PFOS	73	C2708-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-04-20240320
Battelle ID	C2709-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.557
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	8.19	C2709-FS(0)	1.000	3/23/2024	0.536	1.07	5.75
PFPeA	2706-90-3	14.5	C2709-FS(0)	1.000	3/23/2024	0.505	1.01	2.87
PFHxA	307-24-4	18.6	C2709-FS(0)	1.000	3/23/2024	0.370	0.740	1.44
PFHpA	375-85-9	8.94	C2709-FS(0)	1.000	3/23/2024	0.155	0.311	1.44
PFOA	335-67-1	25.3	C2709-FS(0)	1.000	3/23/2024	0.260	0.521	1.44
PFNA	375-95-1	3.72	C2709-FS(0)	1.000	3/23/2024	0.224	0.449	1.44
PFDA	335-76-2	0.350 J	C2709-FS(0)	1.000	3/23/2024	0.200	0.400	1.44
PFUnA	2058-94-8	0.364 U	C2709-FS(0)	1.000	3/23/2024	0.182	0.364	1.44
PFDoA	307-55-1	0.540 U	C2709-FS(0)	1.000	3/23/2024	0.270	0.540	1.44
PFTrDA	72629-94-8	0.652 U	C2709-FS(0)	1.000	3/23/2024	0.326	0.652	1.44
PFTeDA	376-06-7	0.770 U	C2709-FS(0)	1.000	3/23/2024	0.385	0.770	1.44
PFBS	375-73-5	14.7	C2709-FS(0)	1.000	3/23/2024	0.159	0.318	1.44
PFPeS	2706-91-4	9.25	C2709-FS(0)	1.000	3/23/2024	0.116	0.232	1.44
PFHxS	355-46-4	71.7	C2709-FS(0)	1.000	3/23/2024	0.261	0.522	1.44
PFHpS	375-92-8	2.57	C2709-FS(0)	1.000	3/23/2024	0.183	0.366	1.44
PFOS	1763-23-1	149	C2709-FS(0)	1.000	3/23/2024	0.223	0.445	1.44
PFNS	68259-12-1	0.447 U	C2709-FS(0)	1.000	3/23/2024	0.224	0.447	1.44
PFDS	335-77-3	0.291 U	C2709-FS(0)	1.000	3/23/2024	0.145	0.291	1.44
PFDoS	79780-39-5	0.323 U	C2709-FS(0)	1.000	3/23/2024	0.162	0.323	1.44
4:2FTS	757124-72-4	2.37 U	C2709-FS(0)	1.000	3/23/2024	1.18	2.37	5.75
6:2FTS	27619-97-2	5.87	C2709-FS(0)	1.000	3/23/2024	1.33	2.66	5.75
8:2FTS	39108-34-4	1.64 U	C2709-FS(0)	1.000	3/23/2024	0.822	1.64	5.75
PFOSA	754-91-6	0.338 U	C2709-FS(0)	1.000	3/23/2024	0.169	0.338	1.44
NMeFOSA	31506-32-8	0.357 U	C2709-FS(0)	1.000	3/23/2024	0.179	0.357	1.44
NEtFOSA	4151-50-2	0.179 U	C2709-FS(0)	1.000	3/23/2024	0.0896	0.179	1.44
NMeFOSAA	2355-31-9	1.18 U	C2709-FS(0)	1.000	3/23/2024	0.588	1.18	1.44
NEtFOSAA	2991-50-6	1.03 U	C2709-FS(0)	1.000	3/23/2024	0.513	1.03	1.44
NMeFOSE	24448-09-7	2.96 U	C2709-FS(0)	1.000	3/23/2024	1.48	2.96	14.4
NEtFOSE	1691-99-2	2.60 U	C2709-FS(0)	1.000	3/23/2024	1.30	2.60	14.4
HFPO-DA	13252-13-6	1.34 U	C2709-FS(0)	1.000	3/23/2024	0.671	1.34	5.75
Adona	919005-14-4	1.25 U	C2709-FS(0)	1.000	3/23/2024	0.623	1.25	5.75
PFMPA	377-73-1	1.13 U	C2709-FS(0)	1.000	3/23/2024	0.564	1.13	2.87
PFMBA	863090-89-5	1.08 U	C2709-FS(0)	1.000	3/23/2024	0.539	1.08	2.87
NFDHA	151772-58-6	1.36 U	C2709-FS(0)	1.000	3/23/2024	0.682	1.36	2.87
9Cl-PF3ONS	756426-58-1	1.25 U	C2709-FS(0)	1.000	3/23/2024	0.627	1.25	5.75
11Cl-PF3OUdS	763051-92-9	1.96 U	C2709-FS(0)	1.000	3/23/2024	0.978	1.96	5.75
PFEESA	113507-82-7	0.381 U	C2709-FS(0)	1.000	3/23/2024	0.190	0.381	2.87
3:3 FTCA	356-02-5	3.00 U	C2709-FS(0)	1.000	3/23/2024	1.50	3.00	7.18
5:3 FTCA	914637-49-3	8.01 U	C2709-FS(0)	1.000	3/23/2024	4.00	8.01	35.9
7:3 FTCA	812-70-4	9.37 U	C2709-FS(0)	1.000	3/23/2024	4.69	9.37	35.9

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-04-20240320
Battelle ID	C2709-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	103	C2709-FS(0)	3/23/2024
13C5-PFPeA	120	C2709-FS(0)	3/23/2024
13C5-PFHxA	98	C2709-FS(0)	3/23/2024
13C4-PFHpA	113	C2709-FS(0)	3/23/2024
13C8-PFOA	113	C2709-FS(0)	3/23/2024
13C9-PFNA	100	C2709-FS(0)	3/23/2024
13C6-PFDA	100	C2709-FS(0)	3/23/2024
13C7-PFUnA	86	C2709-FS(0)	3/23/2024
13C2-PFDoA	69	C2709-FS(0)	3/23/2024
13C2-PFTeDA	48	C2709-FS(0)	3/23/2024
13C3-PFBS	102	C2709-FS(0)	3/23/2024
13C3-PFHxS	105	C2709-FS(0)	3/23/2024
13C8-PFOS	109	C2709-FS(0)	3/23/2024
13C2-4:2FTS	133	C2709-FS(0)	3/23/2024
13C2-6:2FTS	120	C2709-FS(0)	3/23/2024
13C2-8:2FTS	89	C2709-FS(0)	3/23/2024
13C8-PFOSA	93	C2709-FS(0)	3/23/2024
d3-MeFOSA	69	C2709-FS(0)	3/23/2024
d5-EtFOSA	58	C2709-FS(0)	3/23/2024
d3-MeFOSAA	99	C2709-FS(0)	3/23/2024
d5-EtFOSAA	105	C2709-FS(0)	3/23/2024
d7-MeFOSE	64	C2709-FS(0)	3/23/2024
d9-EtFOSE	50	C2709-FS(0)	3/23/2024
13C3-HFPO-DA	113	C2709-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	76	C2709-FS(0)	3/23/2024
13C2-PFHxA	70	C2709-FS(0)	3/23/2024
13C4-PFOA	70	C2709-FS(0)	3/23/2024
13C5-PFNA	73	C2709-FS(0)	3/23/2024
13C2-PFDA	73	C2709-FS(0)	3/23/2024
18O2-PFHxS	77	C2709-FS(0)	3/23/2024
13C4-PFOS	74	C2709-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-64-20240320
Battelle ID	C2710-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.507
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.78 J	C2710-FS(0)	1.000	3/23/2024	0.589	1.18	6.31
PFPeA	2706-90-3	4.14	C2710-FS(0)	1.000	3/23/2024	0.555	1.11	3.16
PFHxA	307-24-4	5.62	C2710-FS(0)	1.000	3/23/2024	0.406	0.813	1.58
PFHpA	375-85-9	3.28	C2710-FS(0)	1.000	3/23/2024	0.171	0.341	1.58
PFOA	335-67-1	11.7	C2710-FS(0)	1.000	3/23/2024	0.286	0.572	1.58
PFNA	375-95-1	1.79	C2710-FS(0)	1.000	3/23/2024	0.247	0.493	1.58
PFDA	335-76-2	0.440 U	C2710-FS(0)	1.000	3/23/2024	0.220	0.440	1.58
PFUnA	2058-94-8	0.400 U	C2710-FS(0)	1.000	3/23/2024	0.200	0.400	1.58
PFDoA	307-55-1	0.594 U	C2710-FS(0)	1.000	3/23/2024	0.297	0.594	1.58
PFTrDA	72629-94-8	0.716 U	C2710-FS(0)	1.000	3/23/2024	0.358	0.716	1.58
PFTeDA	376-06-7	0.846 U	C2710-FS(0)	1.000	3/23/2024	0.423	0.846	1.58
PFBS	375-73-5	9.58	C2710-FS(0)	1.000	3/23/2024	0.175	0.349	1.58
PFPeS	2706-91-4	0.736 J	C2710-FS(0)	1.000	3/23/2024	0.127	0.254	1.58
PFHxS	355-46-4	4.40	C2710-FS(0)	1.000	3/23/2024	0.287	0.574	1.58
PFHpS	375-92-8	0.272 J	C2710-FS(0)	1.000	3/23/2024	0.201	0.402	1.58
PFOS	1763-23-1	9.37	C2710-FS(0)	1.000	3/23/2024	0.245	0.489	1.58
PFNS	68259-12-1	0.491 U	C2710-FS(0)	1.000	3/23/2024	0.246	0.491	1.58
PFDS	335-77-3	0.320 U	C2710-FS(0)	1.000	3/23/2024	0.160	0.320	1.58
PFDoS	79780-39-5	0.355 U	C2710-FS(0)	1.000	3/23/2024	0.178	0.355	1.58
4:2FTS	757124-72-4	2.60 U	C2710-FS(0)	1.000	3/23/2024	1.30	2.60	6.31
6:2FTS	27619-97-2	2.92 U	C2710-FS(0)	1.000	3/23/2024	1.46	2.92	6.31
8:2FTS	39108-34-4	1.81 U	C2710-FS(0)	1.000	3/23/2024	0.903	1.81	6.31
PFOSA	754-91-6	0.371 U	C2710-FS(0)	1.000	3/23/2024	0.185	0.371	1.58
NMeFOSA	31506-32-8	0.393 U	C2710-FS(0)	1.000	3/23/2024	0.196	0.393	1.58
NEtFOSA	4151-50-2	0.197 U	C2710-FS(0)	1.000	3/23/2024	0.0984	0.197	1.58
NMeFOSAA	2355-31-9	1.29 U	C2710-FS(0)	1.000	3/23/2024	0.646	1.29	1.58
NEtFOSAA	2991-50-6	1.13 U	C2710-FS(0)	1.000	3/23/2024	0.563	1.13	1.58
NMeFOSE	24448-09-7	3.25 U	C2710-FS(0)	1.000	3/23/2024	1.63	3.25	15.8
NEtFOSE	1691-99-2	2.86 U	C2710-FS(0)	1.000	3/23/2024	1.43	2.86	15.8
HFPO-DA	13252-13-6	1.48 U	C2710-FS(0)	1.000	3/23/2024	0.738	1.48	6.31
Adona	919005-14-4	1.37 U	C2710-FS(0)	1.000	3/23/2024	0.684	1.37	6.31
PFMPA	377-73-1	1.24 U	C2710-FS(0)	1.000	3/23/2024	0.619	1.24	3.16
PFMBA	863090-89-5	1.18 U	C2710-FS(0)	1.000	3/23/2024	0.592	1.18	3.16
NFDHA	151772-58-6	1.50 U	C2710-FS(0)	1.000	3/23/2024	0.750	1.50	3.16
9Cl-PF3ONS	756426-58-1	1.38 U	C2710-FS(0)	1.000	3/23/2024	0.689	1.38	6.31
11Cl-PF3OUdS	763051-92-9	2.15 U	C2710-FS(0)	1.000	3/23/2024	1.07	2.15	6.31
PFEESA	113507-82-7	0.418 U	C2710-FS(0)	1.000	3/23/2024	0.209	0.418	3.16
3:3 FTCA	356-02-5	3.29 U	C2710-FS(0)	1.000	3/23/2024	1.65	3.29	7.89
5:3 FTCA	914637-49-3	8.80 U	C2710-FS(0)	1.000	3/23/2024	4.40	8.80	39.4
7:3 FTCA	812-70-4	10.3 U	C2710-FS(0)	1.000	3/23/2024	5.15	10.3	39.4

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-64-20240320
Battelle ID	C2710-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	96	C2710-FS(0)	3/23/2024
13C5-PFPeA	108	C2710-FS(0)	3/23/2024
13C5-PFHxA	91	C2710-FS(0)	3/23/2024
13C4-PFHpA	102	C2710-FS(0)	3/23/2024
13C8-PFOA	103	C2710-FS(0)	3/23/2024
13C9-PFNA	112	C2710-FS(0)	3/23/2024
13C6-PFDA	83	C2710-FS(0)	3/23/2024
13C7-PFUnA	79	C2710-FS(0)	3/23/2024
13C2-PFDoA	62	C2710-FS(0)	3/23/2024
13C2-PFTeDA	46	C2710-FS(0)	3/23/2024
13C3-PFBS	100	C2710-FS(0)	3/23/2024
13C3-PFHxS	96	C2710-FS(0)	3/23/2024
13C8-PFOS	108	C2710-FS(0)	3/23/2024
13C2-4:2FTS	116	C2710-FS(0)	3/23/2024
13C2-6:2FTS	112	C2710-FS(0)	3/23/2024
13C2-8:2FTS	107	C2710-FS(0)	3/23/2024
13C8-PFOSA	95	C2710-FS(0)	3/23/2024
d3-MeFOSA	68	C2710-FS(0)	3/23/2024
d5-EtFOSA	57	C2710-FS(0)	3/23/2024
d3-MeFOSAA	97	C2710-FS(0)	3/23/2024
d5-EtFOSAA	102	C2710-FS(0)	3/23/2024
d7-MeFOSE	71	C2710-FS(0)	3/23/2024
d9-EtFOSE	56	C2710-FS(0)	3/23/2024
13C3-HFPO-DA	93	C2710-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	80	C2710-FS(0)	3/23/2024
13C2-PFHxA	79	C2710-FS(0)	3/23/2024
13C4-PFOA	72	C2710-FS(0)	3/23/2024
13C5-PFNA	71	C2710-FS(0)	3/23/2024
13C2-PFDA	83	C2710-FS(0)	3/23/2024
18O2-PFHxS	79	C2710-FS(0)	3/23/2024
13C4-PFOS	69	C2710-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-03-20240320
Battelle ID	C2711-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.552
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	13.0	C2711-FS(0)	1.000	3/23/2024	0.541	1.08	5.80
PFPeA	2706-90-3	26.8	C2711-FS(0)	1.000	3/23/2024	0.510	1.02	2.90
PFHxA	307-24-4	33.3	C2711-FS(0)	1.000	3/23/2024	0.373	0.746	1.45
PFHpA	375-85-9	24.7	C2711-FS(0)	1.000	3/23/2024	0.157	0.313	1.45
PFOA	335-67-1	50.5	C2711-FS(0)	1.000	3/23/2024	0.263	0.525	1.45
PFNA	375-95-1	10.7	C2711-FS(0)	1.000	3/23/2024	0.226	0.453	1.45
PFDA	335-76-2	0.960 J	C2711-FS(0)	1.000	3/23/2024	0.202	0.404	1.45
PFUnA	2058-94-8	0.368 U	C2711-FS(0)	1.000	3/23/2024	0.184	0.368	1.45
PFDoA	307-55-1	0.545 U	C2711-FS(0)	1.000	3/23/2024	0.273	0.545	1.45
PFTrDA	72629-94-8	0.658 U	C2711-FS(0)	1.000	3/23/2024	0.329	0.658	1.45
PFTeDA	376-06-7	0.777 U	C2711-FS(0)	1.000	3/23/2024	0.389	0.777	1.45
PFBS	375-73-5	12.8	C2711-FS(0)	1.000	3/23/2024	0.160	0.321	1.45
PFPeS	2706-91-4	15.0	C2711-FS(0)	1.000	3/23/2024	0.117	0.234	1.45
PFHxS	355-46-4	159	C2711-FS(0)	1.000	3/23/2024	0.264	0.527	1.45
PFHpS	375-92-8	7.18	C2711-FS(0)	1.000	3/23/2024	0.185	0.370	1.45
PFOS	1763-23-1	551	C2711-FS(0)	1.000	3/23/2024	0.225	0.449	1.45
PFNS	68259-12-1	0.451 U	C2711-FS(0)	1.000	3/23/2024	0.226	0.451	1.45
PFDS	335-77-3	0.293 U	C2711-FS(0)	1.000	3/23/2024	0.147	0.293	1.45
PFDoS	79780-39-5	0.326 U	C2711-FS(0)	1.000	3/23/2024	0.163	0.326	1.45
4:2FTS	757124-72-4	2.39 U	C2711-FS(0)	1.000	3/23/2024	1.20	2.39	5.80
6:2FTS	27619-97-2	14.1	C2711-FS(0)	1.000	3/23/2024	1.34	2.68	5.80
8:2FTS	39108-34-4	5.30 J	C2711-FS(0)	1.000	3/23/2024	0.830	1.66	5.80
PFOSA	754-91-6	0.341 U	C2711-FS(0)	1.000	3/23/2024	0.170	0.341	1.45
NMeFOSA	31506-32-8	0.361 U	C2711-FS(0)	1.000	3/23/2024	0.180	0.361	1.45
NEtFOSA	4151-50-2	0.181 U	C2711-FS(0)	1.000	3/23/2024	0.0904	0.181	1.45
NMeFOSAA	2355-31-9	1.19 U	C2711-FS(0)	1.000	3/23/2024	0.593	1.19	1.45
NEtFOSAA	2991-50-6	1.03 U	C2711-FS(0)	1.000	3/23/2024	0.517	1.03	1.45
NMeFOSE	24448-09-7	2.99 U	C2711-FS(0)	1.000	3/23/2024	1.49	2.99	14.5
NEtFOSE	1691-99-2	2.63 U	C2711-FS(0)	1.000	3/23/2024	1.31	2.63	14.5
HFPO-DA	13252-13-6	1.36 U	C2711-FS(0)	1.000	3/23/2024	0.678	1.36	5.80
Adona	919005-14-4	1.26 U	C2711-FS(0)	1.000	3/23/2024	0.629	1.26	5.80
PFMPA	377-73-1	1.14 U	C2711-FS(0)	1.000	3/23/2024	0.569	1.14	2.90
PFMBA	863090-89-5	1.09 U	C2711-FS(0)	1.000	3/23/2024	0.543	1.09	2.90
NFDHA	151772-58-6	1.38 U	C2711-FS(0)	1.000	3/23/2024	0.688	1.38	2.90
9Cl-PF3ONS	756426-58-1	1.27 U	C2711-FS(0)	1.000	3/23/2024	0.633	1.27	5.80
11Cl-PF3OUdS	763051-92-9	1.97 U	C2711-FS(0)	1.000	3/23/2024	0.987	1.97	5.80
PFEESA	113507-82-7	0.384 U	C2711-FS(0)	1.000	3/23/2024	0.192	0.384	2.90
3:3 FTCA	356-02-5	3.03 U	C2711-FS(0)	1.000	3/23/2024	1.51	3.03	7.25
5:3 FTCA	914637-49-3	8.08 U	C2711-FS(0)	1.000	3/23/2024	4.04	8.08	36.2
7:3 FTCA	812-70-4	9.46 U	C2711-FS(0)	1.000	3/23/2024	4.73	9.46	36.2

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-03-20240320
Battelle ID	C2711-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	104	C2711-FS(0)	3/23/2024
13C5-PFPeA	119	C2711-FS(0)	3/23/2024
13C5-PFHxA	95	C2711-FS(0)	3/23/2024
13C4-PFHpA	111	C2711-FS(0)	3/23/2024
13C8-PFOA	99	C2711-FS(0)	3/23/2024
13C9-PFNA	110	C2711-FS(0)	3/23/2024
13C6-PFDA	100	C2711-FS(0)	3/23/2024
13C7-PFUnA	84	C2711-FS(0)	3/23/2024
13C2-PFDoA	74	C2711-FS(0)	3/23/2024
13C2-PFTeDA	59	C2711-FS(0)	3/23/2024
13C3-PFBS	102	C2711-FS(0)	3/23/2024
13C3-PFHxS	102	C2711-FS(0)	3/23/2024
13C8-PFOS	99	C2711-FS(0)	3/23/2024
13C2-4:2FTS	120	C2711-FS(0)	3/23/2024
13C2-6:2FTS	115	C2711-FS(0)	3/23/2024
13C2-8:2FTS	90	C2711-FS(0)	3/23/2024
13C8-PFOSA	83	C2711-FS(0)	3/23/2024
d3-MeFOSA	56	C2711-FS(0)	3/23/2024
d5-EtFOSA	50	C2711-FS(0)	3/23/2024
d3-MeFOSAA	91	C2711-FS(0)	3/23/2024
d5-EtFOSAA	88	C2711-FS(0)	3/23/2024
d7-MeFOSE	66	C2711-FS(0)	3/23/2024
d9-EtFOSE	53	C2711-FS(0)	3/23/2024
13C3-HFPO-DA	99	C2711-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	79	C2711-FS(0)	3/23/2024
13C2-PFHxA	74	C2711-FS(0)	3/23/2024
13C4-PFOA	80	C2711-FS(0)	3/23/2024
13C5-PFNA	74	C2711-FS(0)	3/23/2024
13C2-PFDA	77	C2711-FS(0)	3/23/2024
18O2-PFHxS	77	C2711-FS(0)	3/23/2024
13C4-PFOS	80	C2711-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-01-20240320
Battelle ID	C2712-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.476
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	26.0	C2712-FS(0)	1.000	3/23/2024	0.627	1.25	6.72
PFPeA	2706-90-3	46.8	C2712-FS(0)	1.000	3/23/2024	0.591	1.18	3.36
PFHxA	307-24-4	62.1	C2712-FS(0)	1.000	3/23/2024	0.433	0.866	1.68
PFHpA	375-85-9	20.5	C2712-FS(0)	1.000	3/23/2024	0.182	0.363	1.68
PFOA	335-67-1	44.0	C2712-FS(0)	1.000	3/23/2024	0.305	0.609	1.68
PFNA	375-95-1	6.69	C2712-FS(0)	1.000	3/23/2024	0.263	0.525	1.68
PFDA	335-76-2	1.63 J	C2712-FS(0)	1.000	3/23/2024	0.234	0.468	1.68
PFUnA	2058-94-8	0.426 U	C2712-FS(0)	1.000	3/23/2024	0.213	0.426	1.68
PFDoA	307-55-1	0.632 U	C2712-FS(0)	1.000	3/23/2024	0.316	0.632	1.68
PFTrDA	72629-94-8	0.763 U	C2712-FS(0)	1.000	3/23/2024	0.381	0.763	1.68
PFTeDA	376-06-7	0.901 U	C2712-FS(0)	1.000	3/23/2024	0.451	0.901	1.68
PFBS	375-73-5	35.5	C2712-FS(0)	1.000	3/23/2024	0.186	0.372	1.68
PFPeS	2706-91-4	37.6	C2712-FS(0)	1.000	3/23/2024	0.136	0.271	1.68
PFHxS	355-46-4	239	C2712-FS(0)	1.000	3/23/2024	0.306	0.611	1.68
PFHpS	375-92-8	9.46	C2712-FS(0)	1.000	3/23/2024	0.214	0.429	1.68
PFOS	1763-23-1	626	C2712-FS(0)	1.000	3/23/2024	0.261	0.521	1.68
PFNS	68259-12-1	0.523 U	C2712-FS(0)	1.000	3/23/2024	0.262	0.523	1.68
PFDS	335-77-3	0.340 U	C2712-FS(0)	1.000	3/23/2024	0.170	0.340	1.68
PFDoS	79780-39-5	0.378 U	C2712-FS(0)	1.000	3/23/2024	0.189	0.378	1.68
4:2FTS	757124-72-4	2.77 U	C2712-FS(0)	1.000	3/23/2024	1.39	2.77	6.72
6:2FTS	27619-97-2	48.8	C2712-FS(0)	1.000	3/23/2024	1.55	3.11	6.72
8:2FTS	39108-34-4	4.93 J	C2712-FS(0)	1.000	3/23/2024	0.962	1.92	6.72
PFOSA	754-91-6	8.74 I	C2712-FS(0)	1.000	3/23/2024	0.197	0.395	1.68
NMeFOSA	31506-32-8	0.418 U	C2712-FS(0)	1.000	3/23/2024	0.209	0.418	1.68
NEtFOSA	4151-50-2	0.210 U	C2712-FS(0)	1.000	3/23/2024	0.105	0.210	1.68
NMeFOSAA	2355-31-9	1.38 U	C2712-FS(0)	1.000	3/23/2024	0.688	1.38	1.68
NEtFOSAA	2991-50-6	1.20 U	C2712-FS(0)	1.000	3/23/2024	0.600	1.20	1.68
NMeFOSE	24448-09-7	3.47 U	C2712-FS(0)	1.000	3/23/2024	1.73	3.47	16.8
NEtFOSE	1691-99-2	3.05 U	C2712-FS(0)	1.000	3/23/2024	1.52	3.05	16.8
HFPO-DA	13252-13-6	1.57 U	C2712-FS(0)	1.000	3/23/2024	0.786	1.57	6.72
Adona	919005-14-4	1.46 U	C2712-FS(0)	1.000	3/23/2024	0.729	1.46	6.72
PFMPA	377-73-1	1.32 U	C2712-FS(0)	1.000	3/23/2024	0.660	1.32	3.36
PFMBA	863090-89-5	1.26 U	C2712-FS(0)	1.000	3/23/2024	0.630	1.26	3.36
NFDHA	151772-58-6	1.60 U	C2712-FS(0)	1.000	3/23/2024	0.798	1.60	3.36
9Cl-PF3ONS	756426-58-1	1.47 U	C2712-FS(0)	1.000	3/23/2024	0.734	1.47	6.72
11Cl-PF3OUdS	763051-92-9	2.29 U	C2712-FS(0)	1.000	3/23/2024	1.14	2.29	6.72
PFEESA	113507-82-7	0.445 U	C2712-FS(0)	1.000	3/23/2024	0.223	0.445	3.36
3:3 FTCA	356-02-5	3.51 U	C2712-FS(0)	1.000	3/23/2024	1.75	3.51	8.40
5:3 FTCA	914637-49-3	9.37 U	C2712-FS(0)	1.000	3/23/2024	4.68	9.37	42.0
7:3 FTCA	812-70-4	11.0 U	C2712-FS(0)	1.000	3/23/2024	5.48	11.0	42.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-01-20240320
Battelle ID	C2712-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	101	C2712-FS(0)	3/23/2024
13C5-PFPeA	105	C2712-FS(0)	3/23/2024
13C5-PFHxA	88	C2712-FS(0)	3/23/2024
13C4-PFHpA	97	C2712-FS(0)	3/23/2024
13C8-PFOA	102	C2712-FS(0)	3/23/2024
13C9-PFNA	96	C2712-FS(0)	3/23/2024
13C6-PFDA	96	C2712-FS(0)	3/23/2024
13C7-PFUnA	79	C2712-FS(0)	3/23/2024
13C2-PFDoA	73	C2712-FS(0)	3/23/2024
13C2-PFTeDA	33	C2712-FS(0)	3/23/2024
13C3-PFBS	103	C2712-FS(0)	3/23/2024
13C3-PFHxS	97	C2712-FS(0)	3/23/2024
13C8-PFOS	99	C2712-FS(0)	3/23/2024
13C2-4:2FTS	116	C2712-FS(0)	3/23/2024
13C2-6:2FTS	107	C2712-FS(0)	3/23/2024
13C2-8:2FTS	102	C2712-FS(0)	3/23/2024
13C8-PFOSA	79	C2712-FS(0)	3/23/2024
d3-MeFOSA	52	C2712-FS(0)	3/23/2024
d5-EtFOSA	47	C2712-FS(0)	3/23/2024
d3-MeFOSAA	82	C2712-FS(0)	3/23/2024
d5-EtFOSAA	89	C2712-FS(0)	3/23/2024
d7-MeFOSE	58	C2712-FS(0)	3/23/2024
d9-EtFOSE	41	C2712-FS(0)	3/23/2024
13C3-HFPO-DA	93	C2712-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	79	C2712-FS(0)	3/23/2024
13C2-PFHxA	76	C2712-FS(0)	3/23/2024
13C4-PFOA	78	C2712-FS(0)	3/23/2024
13C5-PFNA	75	C2712-FS(0)	3/23/2024
13C2-PFDA	83	C2712-FS(0)	3/23/2024
18O2-PFHxS	75	C2712-FS(0)	3/23/2024
13C4-PFOS	81	C2712-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-52-20240320
Battelle ID	C2713-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.491
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.44 J	C2713-FS(0)	1.000	3/23/2024	0.608	1.22	6.52
PFPeA	2706-90-3	5.25	C2713-FS(0)	1.000	3/23/2024	0.573	1.15	3.26
PFHxA	307-24-4	7.29	C2713-FS(0)	1.000	3/23/2024	0.420	0.839	1.63
PFHpA	375-85-9	3.32	C2713-FS(0)	1.000	3/23/2024	0.176	0.352	1.63
PFOA	335-67-1	13.0	C2713-FS(0)	1.000	3/23/2024	0.295	0.591	1.63
PFNA	375-95-1	1.64	C2713-FS(0)	1.000	3/23/2024	0.255	0.509	1.63
PFDA	335-76-2	0.454 U	C2713-FS(0)	1.000	3/23/2024	0.227	0.454	1.63
PFUnA	2058-94-8	0.413 U	C2713-FS(0)	1.000	3/23/2024	0.207	0.413	1.63
PFDoA	307-55-1	0.613 U	C2713-FS(0)	1.000	3/23/2024	0.307	0.613	1.63
PFTrDA	72629-94-8	0.739 U	C2713-FS(0)	1.000	3/23/2024	0.370	0.739	1.63
PFTeDA	376-06-7	0.874 U	C2713-FS(0)	1.000	3/23/2024	0.437	0.874	1.63
PFBS	375-73-5	4.18	C2713-FS(0)	1.000	3/23/2024	0.180	0.360	1.63
PFPeS	2706-91-4	3.76	C2713-FS(0)	1.000	3/23/2024	0.131	0.263	1.63
PFHxS	355-46-4	26.6	C2713-FS(0)	1.000	3/23/2024	0.296	0.593	1.63
PFHpS	375-92-8	0.961 J	C2713-FS(0)	1.000	3/23/2024	0.208	0.415	1.63
PFOS	1763-23-1	32.8	C2713-FS(0)	1.000	3/23/2024	0.253	0.505	1.63
PFNS	68259-12-1	0.507 U	C2713-FS(0)	1.000	3/23/2024	0.254	0.507	1.63
PFDS	335-77-3	0.330 U	C2713-FS(0)	1.000	3/23/2024	0.165	0.330	1.63
PFDoS	79780-39-5	0.367 U	C2713-FS(0)	1.000	3/23/2024	0.183	0.367	1.63
4:2FTS	757124-72-4	2.69 U	C2713-FS(0)	1.000	3/23/2024	1.34	2.69	6.52
6:2FTS	27619-97-2	3.01 U	C2713-FS(0)	1.000	3/23/2024	1.51	3.01	6.52
8:2FTS	39108-34-4	1.87 U	C2713-FS(0)	1.000	3/23/2024	0.933	1.87	6.52
PFOSA	754-91-6	0.383 U	C2713-FS(0)	1.000	3/23/2024	0.191	0.383	1.63
NMeFOSA	31506-32-8	0.405 U	C2713-FS(0)	1.000	3/23/2024	0.203	0.405	1.63
NEtFOSA	4151-50-2	0.203 U	C2713-FS(0)	1.000	3/23/2024	0.102	0.203	1.63
NMeFOSAA	2355-31-9	1.33 U	C2713-FS(0)	1.000	3/23/2024	0.667	1.33	1.63
NEtFOSAA	2991-50-6	1.16 U	C2713-FS(0)	1.000	3/23/2024	0.581	1.16	1.63
NMeFOSE	24448-09-7	3.36 U	C2713-FS(0)	1.000	3/23/2024	1.68	3.36	16.3
NEtFOSE	1691-99-2	2.95 U	C2713-FS(0)	1.000	3/23/2024	1.48	2.95	16.3
HFPO-DA	13252-13-6	1.52 U	C2713-FS(0)	1.000	3/23/2024	0.762	1.52	6.52
Adona	919005-14-4	1.41 U	C2713-FS(0)	1.000	3/23/2024	0.707	1.41	6.52
PFMPA	377-73-1	1.28 U	C2713-FS(0)	1.000	3/23/2024	0.640	1.28	3.26
PFMBA	863090-89-5	1.22 U	C2713-FS(0)	1.000	3/23/2024	0.611	1.22	3.26
NFDHA	151772-58-6	1.55 U	C2713-FS(0)	1.000	3/23/2024	0.774	1.55	3.26
9Cl-PF3ONS	756426-58-1	1.42 U	C2713-FS(0)	1.000	3/23/2024	0.712	1.42	6.52
11Cl-PF3OUdS	763051-92-9	2.22 U	C2713-FS(0)	1.000	3/23/2024	1.11	2.22	6.52
PFEESA	113507-82-7	0.432 U	C2713-FS(0)	1.000	3/23/2024	0.216	0.432	3.26
3:3 FTCA	356-02-5	3.40 U	C2713-FS(0)	1.000	3/23/2024	1.70	3.40	8.15
5:3 FTCA	914637-49-3	9.08 U	C2713-FS(0)	1.000	3/23/2024	4.54	9.08	40.7
7:3 FTCA	812-70-4	10.6 U	C2713-FS(0)	1.000	3/23/2024	5.32	10.6	40.7

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-52-20240320
Battelle ID	C2713-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	97	C2713-FS(0)	3/23/2024
13C5-PFPeA	108	C2713-FS(0)	3/23/2024
13C5-PFHxA	88	C2713-FS(0)	3/23/2024
13C4-PFHpA	103	C2713-FS(0)	3/23/2024
13C8-PFOA	102	C2713-FS(0)	3/23/2024
13C9-PFNA	98	C2713-FS(0)	3/23/2024
13C6-PFDA	87	C2713-FS(0)	3/23/2024
13C7-PFUnA	73	C2713-FS(0)	3/23/2024
13C2-PFDoA	75	C2713-FS(0)	3/23/2024
13C2-PFTeDA	54	C2713-FS(0)	3/23/2024
13C3-PFBS	105	C2713-FS(0)	3/23/2024
13C3-PFHxS	95	C2713-FS(0)	3/23/2024
13C8-PFOS	92	C2713-FS(0)	3/23/2024
13C2-4:2FTS	115	C2713-FS(0)	3/23/2024
13C2-6:2FTS	112	C2713-FS(0)	3/23/2024
13C2-8:2FTS	100	C2713-FS(0)	3/23/2024
13C8-PFOSA	82	C2713-FS(0)	3/23/2024
d3-MeFOSA	48	C2713-FS(0)	3/23/2024
d5-EtFOSA	44	C2713-FS(0)	3/23/2024
d3-MeFOSAA	82	C2713-FS(0)	3/23/2024
d5-EtFOSAA	92	C2713-FS(0)	3/23/2024
d7-MeFOSE	61	C2713-FS(0)	3/23/2024
d9-EtFOSE	51	C2713-FS(0)	3/23/2024
13C3-HFPO-DA	93	C2713-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	87	C2713-FS(0)	3/23/2024
13C2-PFHxA	85	C2713-FS(0)	3/23/2024
13C4-PFOA	83	C2713-FS(0)	3/23/2024
13C5-PFNA	84	C2713-FS(0)	3/23/2024
13C2-PFDA	85	C2713-FS(0)	3/23/2024
18O2-PFHxS	83	C2713-FS(0)	3/23/2024
13C4-PFOS	83	C2713-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-03-20240320
Battelle ID	C2714-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.528
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	9.09	C2714-FS(0)	1.000	3/23/2024	0.565	1.13	6.06
PFPeA	2706-90-3	14.9	C2714-FS(0)	1.000	3/23/2024	0.533	1.07	3.03
PFHxA	307-24-4	20.0	C2714-FS(0)	1.000	3/23/2024	0.390	0.780	1.52
PFHpA	375-85-9	9.37	C2714-FS(0)	1.000	3/23/2024	0.164	0.328	1.52
PFOA	335-67-1	27.0	C2714-FS(0)	1.000	3/23/2024	0.275	0.549	1.52
PFNA	375-95-1	3.73	C2714-FS(0)	1.000	3/23/2024	0.237	0.473	1.52
PFDA	335-76-2	0.422 U	C2714-FS(0)	1.000	3/23/2024	0.211	0.422	1.52
PFUnA	2058-94-8	0.384 U	C2714-FS(0)	1.000	3/23/2024	0.192	0.384	1.52
PFDoA	307-55-1	0.570 U	C2714-FS(0)	1.000	3/23/2024	0.285	0.570	1.52
PFTrDA	72629-94-8	0.688 U	C2714-FS(0)	1.000	3/23/2024	0.344	0.688	1.52
PFTeDA	376-06-7	0.813 U	C2714-FS(0)	1.000	3/23/2024	0.406	0.813	1.52
PFBS	375-73-5	14.5	C2714-FS(0)	1.000	3/23/2024	0.168	0.335	1.52
PFPeS	2706-91-4	10.4	C2714-FS(0)	1.000	3/23/2024	0.122	0.244	1.52
PFHxS	355-46-4	76.4	C2714-FS(0)	1.000	3/23/2024	0.276	0.551	1.52
PFHpS	375-92-8	2.61	C2714-FS(0)	1.000	3/23/2024	0.193	0.386	1.52
PFOS	1763-23-1	157	C2714-FS(0)	1.000	3/23/2024	0.235	0.470	1.52
PFNS	68259-12-1	0.472 U	C2714-FS(0)	1.000	3/23/2024	0.236	0.472	1.52
PFDS	335-77-3	0.307 U	C2714-FS(0)	1.000	3/23/2024	0.153	0.307	1.52
PFDoS	79780-39-5	0.341 U	C2714-FS(0)	1.000	3/23/2024	0.170	0.341	1.52
4:2FTS	757124-72-4	2.50 U	C2714-FS(0)	1.000	3/23/2024	1.25	2.50	6.06
6:2FTS	27619-97-2	6.53	C2714-FS(0)	1.000	3/23/2024	1.40	2.80	6.06
8:2FTS	39108-34-4	1.73 U	C2714-FS(0)	1.000	3/23/2024	0.867	1.73	6.06
PFOSA	754-91-6	0.356 U	C2714-FS(0)	1.000	3/23/2024	0.178	0.356	1.52
NMeFOSA	31506-32-8	0.377 U	C2714-FS(0)	1.000	3/23/2024	0.188	0.377	1.52
NEtFOSA	4151-50-2	0.189 U	C2714-FS(0)	1.000	3/23/2024	0.0945	0.189	1.52
NMeFOSAA	2355-31-9	1.24 U	C2714-FS(0)	1.000	3/23/2024	0.620	1.24	1.52
NEtFOSAA	2991-50-6	1.08 U	C2714-FS(0)	1.000	3/23/2024	0.541	1.08	1.52
NMeFOSE	24448-09-7	3.13 U	C2714-FS(0)	1.000	3/23/2024	1.56	3.13	15.2
NEtFOSE	1691-99-2	2.75 U	C2714-FS(0)	1.000	3/23/2024	1.37	2.75	15.2
HFPO-DA	13252-13-6	1.42 U	C2714-FS(0)	1.000	3/23/2024	0.708	1.42	6.06
Adona	919005-14-4	1.31 U	C2714-FS(0)	1.000	3/23/2024	0.657	1.31	6.06
PFMPA	377-73-1	1.19 U	C2714-FS(0)	1.000	3/23/2024	0.595	1.19	3.03
PFMBA	863090-89-5	1.14 U	C2714-FS(0)	1.000	3/23/2024	0.568	1.14	3.03
NFDHA	151772-58-6	1.44 U	C2714-FS(0)	1.000	3/23/2024	0.720	1.44	3.03
9Cl-PF3ONS	756426-58-1	1.32 U	C2714-FS(0)	1.000	3/23/2024	0.662	1.32	6.06
11Cl-PF3OUdS	763051-92-9	2.06 U	C2714-FS(0)	1.000	3/23/2024	1.03	2.06	6.06
PFEESA	113507-82-7	0.402 U	C2714-FS(0)	1.000	3/23/2024	0.201	0.402	3.03
3:3 FTCA	356-02-5	3.16 U	C2714-FS(0)	1.000	3/23/2024	1.58	3.16	7.58
5:3 FTCA	914637-49-3	8.45 U	C2714-FS(0)	1.000	3/23/2024	4.22	8.45	37.9
7:3 FTCA	812-70-4	9.89 U	C2714-FS(0)	1.000	3/23/2024	4.94	9.89	37.9

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-03-20240320
Battelle ID	C2714-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	91	C2714-FS(0)	3/23/2024
13C5-PFPeA	111	C2714-FS(0)	3/23/2024
13C5-PFHxA	91	C2714-FS(0)	3/23/2024
13C4-PFHpA	104	C2714-FS(0)	3/23/2024
13C8-PFOA	96	C2714-FS(0)	3/23/2024
13C9-PFNA	97	C2714-FS(0)	3/23/2024
13C6-PFDA	93	C2714-FS(0)	3/23/2024
13C7-PFUnA	76	C2714-FS(0)	3/23/2024
13C2-PFDoA	71	C2714-FS(0)	3/23/2024
13C2-PFTeDA	50	C2714-FS(0)	3/23/2024
13C3-PFBS	96	C2714-FS(0)	3/23/2024
13C3-PFHxS	97	C2714-FS(0)	3/23/2024
13C8-PFOS	102	C2714-FS(0)	3/23/2024
13C2-4:2FTS	113	C2714-FS(0)	3/23/2024
13C2-6:2FTS	107	C2714-FS(0)	3/23/2024
13C2-8:2FTS	96	C2714-FS(0)	3/23/2024
13C8-PFOSA	85	C2714-FS(0)	3/23/2024
d3-MeFOSA	64	C2714-FS(0)	3/23/2024
d5-EtFOSA	59	C2714-FS(0)	3/23/2024
d3-MeFOSAA	93	C2714-FS(0)	3/23/2024
d5-EtFOSAA	105	C2714-FS(0)	3/23/2024
d7-MeFOSE	69	C2714-FS(0)	3/23/2024
d9-EtFOSE	57	C2714-FS(0)	3/23/2024
13C3-HFPO-DA	99	C2714-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	81	C2714-FS(0)	3/23/2024
13C2-PFHxA	78	C2714-FS(0)	3/23/2024
13C4-PFOA	83	C2714-FS(0)	3/23/2024
13C5-PFNA	73	C2714-FS(0)	3/23/2024
13C2-PFDA	80	C2714-FS(0)	3/23/2024
18O2-PFHxS	78	C2714-FS(0)	3/23/2024
13C4-PFOS	76	C2714-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-04-20240320
Battelle ID	C2715-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.541
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	4.51 J	C2715-FS(0)	1.000	3/23/2024	0.552	1.10	5.91
PFPeA	2706-90-3	5.81	C2715-FS(0)	1.000	3/23/2024	0.520	1.04	2.96
PFHxA	307-24-4	6.89	C2715-FS(0)	1.000	3/23/2024	0.381	0.762	1.48
PFHpA	375-85-9	3.74	C2715-FS(0)	1.000	3/23/2024	0.160	0.320	1.48
PFOA	335-67-1	13.0	C2715-FS(0)	1.000	3/23/2024	0.268	0.536	1.48
PFNA	375-95-1	1.45 J	C2715-FS(0)	1.000	3/23/2024	0.231	0.462	1.48
PFDA	335-76-2	0.412 U	C2715-FS(0)	1.000	3/23/2024	0.206	0.412	1.48
PFUnA	2058-94-8	0.375 U	C2715-FS(0)	1.000	3/23/2024	0.188	0.375	1.48
PFDoA	307-55-1	0.556 U	C2715-FS(0)	1.000	3/23/2024	0.278	0.556	1.48
PFTrDA	72629-94-8	0.671 U	C2715-FS(0)	1.000	3/23/2024	0.335	0.671	1.48
PFTeDA	376-06-7	0.793 U	C2715-FS(0)	1.000	3/23/2024	0.396	0.793	1.48
PFBS	375-73-5	4.35	C2715-FS(0)	1.000	3/23/2024	0.164	0.327	1.48
PFPeS	2706-91-4	3.50	C2715-FS(0)	1.000	3/23/2024	0.119	0.238	1.48
PFHxS	355-46-4	26.3	C2715-FS(0)	1.000	3/23/2024	0.269	0.538	1.48
PFHpS	375-92-8	0.860 J	C2715-FS(0)	1.000	3/23/2024	0.189	0.377	1.48
PFOS	1763-23-1	33.1	C2715-FS(0)	1.000	3/23/2024	0.229	0.458	1.48
PFNS	68259-12-1	0.460 U	C2715-FS(0)	1.000	3/23/2024	0.230	0.460	1.48
PFDS	335-77-3	0.299 U	C2715-FS(0)	1.000	3/23/2024	0.150	0.299	1.48
PFDoS	79780-39-5	0.333 U	C2715-FS(0)	1.000	3/23/2024	0.166	0.333	1.48
4:2FTS	757124-72-4	2.44 U	C2715-FS(0)	1.000	3/23/2024	1.22	2.44	5.91
6:2FTS	27619-97-2	2.74 U	C2715-FS(0)	1.000	3/23/2024	1.37	2.74	5.91
8:2FTS	39108-34-4	1.69 U	C2715-FS(0)	1.000	3/23/2024	0.847	1.69	5.91
PFOSA	754-91-6	0.348 U	C2715-FS(0)	1.000	3/23/2024	0.174	0.348	1.48
NMeFOSA	31506-32-8	0.368 U	C2715-FS(0)	1.000	3/23/2024	0.184	0.368	1.48
NEtFOSA	4151-50-2	0.184 U	C2715-FS(0)	1.000	3/23/2024	0.0922	0.184	1.48
NMeFOSAA	2355-31-9	1.21 U	C2715-FS(0)	1.000	3/23/2024	0.605	1.21	1.48
NEtFOSAA	2991-50-6	1.06 U	C2715-FS(0)	1.000	3/23/2024	0.528	1.06	1.48
NMeFOSE	24448-09-7	3.05 U	C2715-FS(0)	1.000	3/23/2024	1.52	3.05	14.8
NEtFOSE	1691-99-2	2.68 U	C2715-FS(0)	1.000	3/23/2024	1.34	2.68	14.8
HFPO-DA	13252-13-6	1.38 U	C2715-FS(0)	1.000	3/23/2024	0.691	1.38	5.91
Adona	919005-14-4	1.28 U	C2715-FS(0)	1.000	3/23/2024	0.641	1.28	5.91
PFMPA	377-73-1	1.16 U	C2715-FS(0)	1.000	3/23/2024	0.580	1.16	2.96
PFMBA	863090-89-5	1.11 U	C2715-FS(0)	1.000	3/23/2024	0.555	1.11	2.96
NFDHA	151772-58-6	1.40 U	C2715-FS(0)	1.000	3/23/2024	0.702	1.40	2.96
9Cl-PF3ONS	756426-58-1	1.29 U	C2715-FS(0)	1.000	3/23/2024	0.646	1.29	5.91
11Cl-PF3OUdS	763051-92-9	2.01 U	C2715-FS(0)	1.000	3/23/2024	1.01	2.01	5.91
PFEESA	113507-82-7	0.392 U	C2715-FS(0)	1.000	3/23/2024	0.196	0.392	2.96
3:3 FTCA	356-02-5	3.09 U	C2715-FS(0)	1.000	3/23/2024	1.54	3.09	7.39
5:3 FTCA	914637-49-3	8.24 U	C2715-FS(0)	1.000	3/23/2024	4.12	8.24	37.0
7:3 FTCA	812-70-4	9.65 U	C2715-FS(0)	1.000	3/23/2024	4.82	9.65	37.0

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-DUP-04-20240320
Battelle ID	C2715-FS
Sample Type	SA
Collection Date	03/20/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	102	C2715-FS(0)	3/23/2024
13C5-PFPeA	112	C2715-FS(0)	3/23/2024
13C5-PFHxA	93	C2715-FS(0)	3/23/2024
13C4-PFHpA	100	C2715-FS(0)	3/23/2024
13C8-PFOA	103	C2715-FS(0)	3/23/2024
13C9-PFNA	103	C2715-FS(0)	3/23/2024
13C6-PFDA	96	C2715-FS(0)	3/23/2024
13C7-PFUnA	79	C2715-FS(0)	3/23/2024
13C2-PFDoA	74	C2715-FS(0)	3/23/2024
13C2-PFTeDA	61	C2715-FS(0)	3/23/2024
13C3-PFBS	110	C2715-FS(0)	3/23/2024
13C3-PFHxS	109	C2715-FS(0)	3/23/2024
13C8-PFOS	99	C2715-FS(0)	3/23/2024
13C2-4:2FTS	117	C2715-FS(0)	3/23/2024
13C2-6:2FTS	119	C2715-FS(0)	3/23/2024
13C2-8:2FTS	101	C2715-FS(0)	3/23/2024
13C8-PFOSA	91	C2715-FS(0)	3/23/2024
d3-MeFOSA	55	C2715-FS(0)	3/23/2024
d5-EtFOSA	49	C2715-FS(0)	3/23/2024
d3-MeFOSAA	92	C2715-FS(0)	3/23/2024
d5-EtFOSAA	99	C2715-FS(0)	3/23/2024
d7-MeFOSE	62	C2715-FS(0)	3/23/2024
d9-EtFOSE	52	C2715-FS(0)	3/23/2024
13C3-HFPO-DA	99	C2715-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	77	C2715-FS(0)	3/23/2024
13C2-PFHxA	73	C2715-FS(0)	3/23/2024
13C4-PFOA	74	C2715-FS(0)	3/23/2024
13C5-PFNA	72	C2715-FS(0)	3/23/2024
13C2-PFDA	74	C2715-FS(0)	3/23/2024
18O2-PFHxS	70	C2715-FS(0)	3/23/2024
13C4-PFOS	70	C2715-FS(0)	3/23/2024

Appendix C

Support Documentation

ANALYTE	ORIGINAL WGNA-SW-04-20240320	DUPLICATE WGNA-SW-DUP-03-20240320	RL	RPD	RPD > 30% Aqueous	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
11CL-PF3OUDS	1.96	2.06	5.75	4.98	FALSE	FALSE	FALSE	FALSE
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	2.6	2.75	14.4	5.61	FALSE	FALSE	FALSE	FALSE
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	2.96	3.13	14.4	5.58	FALSE	FALSE	FALSE	FALSE
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	3	3.16	7.18	5.19	FALSE	FALSE	FALSE	FALSE
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	1.25	1.31	5.75	4.69	FALSE	FALSE	FALSE	FALSE
4:2 FLUOROTELOMER SULFONATE	2.37	2.5	5.75	5.34	FALSE	FALSE	FALSE	FALSE
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	8.01	8.45	35.9	5.35	FALSE	FALSE	FALSE	FALSE
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	5.87	6.53	5.75	10.65	FALSE	FALSE	FALSE	FALSE
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	9.37	9.89	35.9	5.40	FALSE	FALSE	FALSE	FALSE
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	1.64	1.73	5.75	5.34	FALSE	FALSE	FALSE	FALSE
9CL-PF3ONS	1.25	1.32	5.75	5.45	FALSE	FALSE	FALSE	FALSE
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	1.34	1.42	5.75	5.80	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.179	0.189	1.44	5.43	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	1.03	1.08	1.44	4.74	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.357	0.377	1.44	5.45	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	1.18	1.24	1.44	4.96	FALSE	FALSE	FALSE	FALSE
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	1.36	1.44	2.87	5.71	FALSE	FALSE	FALSE	FALSE
PENTADECAFLUOROOCTANOIC ACID (PFOA)	25.3	27	1.44	6.50	FALSE	TRUE	TRUE	FALSE
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	0.381	0.402	2.87	5.36	FALSE	FALSE	FALSE	FALSE
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	1.13	1.19	2.87	5.17	FALSE	FALSE	FALSE	FALSE
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	1.08	1.14	2.87	5.41	FALSE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID (PFBS)	14.7	14.5	1.44	1.37	FALSE	TRUE	TRUE	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	8.19	9.09	5.75	10.42	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANESULFONIC ACID (PFDS)	0.291	0.307	1.44	5.35	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID (PFDA)	0.35	0.422	1.44	18.65	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANESULFONIC ACID (PFDOS)	0.323	0.341	1.44	5.42	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANOIC ACID (PFDOA)	0.54	0.57	1.44	5.41	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.57	2.61	1.44	1.54	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID (PFHPA)	8.94	9.37	1.44	4.70	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	71.7	76.4	1.44	6.35	FALSE	TRUE	TRUE	TRUE
PERFLUOROHEXANOIC ACID (PFHXA)	18.6	20	1.44	7.25	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANESULFONIC ACID (PFNS)	0.447	0.472	1.44	5.44	FALSE	FALSE	FALSE	FALSE
PERFLUORONONANOIC ACID (PFNA)	3.72	3.73	1.44	0.27	FALSE	TRUE	TRUE	FALSE
PERFLUOROOCTANE SULFONAMIDE (FOSA)	0.338	0.356	1.44	5.19	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANESULFONIC ACID (PFOS)	149	157	1.44	5.23	FALSE	TRUE	TRUE	TRUE
PERFLUOROPENTANESULFONIC ACID (PFPES)	9.25	10.4	1.44	11.70	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANOIC ACID (PFPEA)	14.5	14.9	2.87	2.72	FALSE	TRUE	TRUE	FALSE
PERFLUOROTETRADECANOIC ACID (PFTEA)	0.77	0.813	1.44	5.43	FALSE	FALSE	FALSE	FALSE
PERFLUOROTRIDECANOIC ACID (PFTRIA)	0.652	0.688	1.44	5.37	FALSE	FALSE	FALSE	FALSE
PERFLUOROUNDECANOIC ACID (PFUNA)	0.364	0.384	1.44	5.35	FALSE	FALSE	FALSE	FALSE

ANALYTE	ORIGINAL WGNA-SW-52-20240320	DUPLICATE WGNA-SW-DUP-04-20240320	RL	RPD	RPD > 30% Aqueous	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
11CL-PF3OUDS	2.22	2.01	6.52	9.93	FALSE	FALSE	FALSE	FALSE
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)	2.95	2.68	16.3	9.59	FALSE	FALSE	FALSE	FALSE
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)	3.36	3.05	16.3	9.67	FALSE	FALSE	FALSE	FALSE
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]	3.4	3.09	8.15	9.55	FALSE	FALSE	FALSE	FALSE
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	1.41	1.28	6.52	9.67	FALSE	FALSE	FALSE	FALSE
4:2 FLUOROTELOMER SULFONATE	2.69	2.44	6.52	9.75	FALSE	FALSE	FALSE	FALSE
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]	9.08	8.24	40.7	9.70	FALSE	FALSE	FALSE	FALSE
6:2 FLUOROTELOMER SULFONATE (6:2FTS)	3.01	2.74	6.52	9.39	FALSE	FALSE	FALSE	FALSE
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]	10.6	9.65	40.7	9.38	FALSE	FALSE	FALSE	FALSE
8:2 FLUOROTELOMER SULFONATE (8:2FTS)	1.87	1.69	6.52	10.11	FALSE	FALSE	FALSE	FALSE
9CL-PF3ONS	1.42	1.29	6.52	9.59	FALSE	FALSE	FALSE	FALSE
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	1.52	1.38	6.52	9.66	FALSE	FALSE	FALSE	FALSE

N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.203	0.184	1.63	9.82	FALSE	FALSE	FALSE	FALSE
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	1.16	1.06	1.63	9.01	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.405	0.368	1.63	9.57	FALSE	FALSE	FALSE	FALSE
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	1.33	1.21	1.63	9.45	FALSE	FALSE	FALSE	FALSE
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	1.55	1.4	3.26	10.17	FALSE	FALSE	FALSE	FALSE
PENTADECAFLUOROOCTANOIC ACID (PFOA)	13	13	1.63	0.00	FALSE	TRUE	TRUE	FALSE
PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	0.432	0.392	3.26	9.71	FALSE	FALSE	FALSE	FALSE
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	1.28	1.16	3.26	9.84	FALSE	FALSE	FALSE	FALSE
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	1.22	1.11	3.26	9.44	FALSE	FALSE	FALSE	FALSE
PERFLUOROBUTANESULFONIC ACID (PFBS)	4.18	4.35	1.63	3.99	FALSE	TRUE	TRUE	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	4.44	4.51	6.52	1.56	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANESULFONIC ACID (PFDS)	0.33	0.299	1.63	9.86	FALSE	FALSE	FALSE	FALSE
PERFLUORODECANOIC ACID (PFDA)	0.454	0.412	1.63	9.70	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANESULFONIC ACID (PFDOS)	0.367	0.333	1.63	9.71	FALSE	FALSE	FALSE	FALSE
PERFLUORODODECANOIC ACID (PFDOA)	0.613	0.556	1.63	9.75	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANESULFONIC ACID (PFHPS)	0.961	0.86	1.63	11.09	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEPTANOIC ACID (PFHPA)	3.32	3.74	1.63	11.90	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	26.6	26.3	1.63	1.13	FALSE	TRUE	TRUE	FALSE
PERFLUOROHEXANOIC ACID (PFHXA)	7.29	6.89	1.63	5.64	FALSE	TRUE	TRUE	FALSE
PERFLUORONONANESULFONIC ACID (PFNS)	0.507	0.46	1.63	9.72	FALSE	FALSE	FALSE	FALSE
PERFLUORONONANOIC ACID (PFNA)	1.64	1.45	1.63	12.30	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANE SULFONAMIDE (FOSA)	0.383	0.348	1.63	9.58	FALSE	FALSE	FALSE	FALSE
PERFLUOROOCTANESULFONIC ACID (PFOS)	32.8	33.1	1.63	0.91	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANESULFONIC ACID (PFPES)	3.76	3.5	1.63	7.16	FALSE	TRUE	TRUE	FALSE
PERFLUOROPENTANOIC ACID (PFPEA)	5.25	5.81	3.26	10.13	FALSE	FALSE	FALSE	FALSE
PERFLUOROTETRADECANOIC ACID (PFTEA)	0.874	0.793	1.63	9.72	FALSE	FALSE	FALSE	FALSE
PERFLUOROTRIDECANOIC ACID (PFTRIA)	0.739	0.671	1.63	9.65	FALSE	FALSE	FALSE	FALSE
PERFLUOROUNDECANOIC ACID (PFUNA)	0.413	0.375	1.63	9.64	FALSE	FALSE	FALSE	FALSE

Battelle

The Business of Innovation

Chain-of-Custody

Client Contact Information Tricia Moore 234 Mall Boulevard, Suite 260 King of Prussia, PA 19406 610-382-1170	Project Manager: Heather Thurston Sampler Information (print name): Chris Sinisi Phone: 610-382-1524 Email: chris.sinisi@tetratech.com Turnaround Time (TAT) Requested: 21 days	Sampling Site: Surface Water	Site Information: NAS JRB Willow Grove
Project Name: Surface Water Sampling Project No.: **WR-125**	Normal ☑ Priority ☐ RUSH ☐ Time Zone: Eastern	Preservative: None Analysis: PFAS by EPA Draft Method 1633 compliant with Table B-24 of the QSM	COC # Page# 1 of 1

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.		
WGNA-FB-20240320	3/20/2024	0900	G	QC	2	X	C2701 Field Blank
WGNA-SW-19-20240320	3/20/2024	0916	G	SW	3	X	02
WGNA-SW-17-20240320	3/20/2024	0935	G	SW	3	X	03
WGNA-SW-28-20240320	3/20/2024	0940	G	SW	3	X	04
WGNA-SW-14-20240320	3/20/2024	1000	G	SW	3	X	05
WGNA-SW-63-20240320	3/20/2024	1018	G	SW	3	X	06
WGNA-SW-10-20240320	3/20/2024	1045	G	SW	3	X	07
WGNA-SW-05-20240320	3/20/2024	1055	G	SW	3	X	08
WGNA-SW-04-20240320	3/20/2024	1120	G	SW	3	X	09
WGNA-SW-64-20240320	3/20/2024	1135	G	SW	9	X	10 MS/MSD
WGNA-SW-03-20240320	3/20/2024	1235	G	SW	3	X	11
WGNA-SW-01-20240320	3/20/2024	1252	G	SW	3	X	12
WGNA-SW-52-20240320	3/20/2024	1310	G	SW	3	X	13
WGNA-SW-DUP-03-20240320	3/20/2024	0000	G	SW	3	X	14
WGNA-SW-DUP-04-20240320	3/20/2024	0000	G	SW	3	X	C2715

Receipt Temperature:(°C)	*Samples Intact: Yes - No*	*Samples on Ice: Yes - No*
		Receipt Comments:

Relinquished by (Print/Sign): Chris Sinisi	Company: Tetra Tech	Date/Time: 3/20/2024 1730	Received by (Print/Sign):	Company: BNO	Date/Time: 3/21/24 1000
Relinquished by (Print/Sign):	Company:	Date/Time:	Received by (Print/Sign):	Company:	Date/Time:
Relinquished by (Print/Sign):	Company:	Date/Time:	Received by (Print/Sign):	Company:	Date/Time:

Comments: FedEx Tracking # 775622226048

Sample Summary

Client: Tetra Tech
SDG: 24-0213
Project/Site: NAS JRB Willow Grove
CTO: WE04

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DQ777PB-FS	Procedural Blank	WATER	3/22/2024	3/22/2024
DQ778LCS-FS	Laboratory Control Sample	WATER	3/22/2024	3/22/2024
DQ779LCS-FS	Laboratory Control Sample	WATER	3/22/2024	3/22/2024
C2701-FS	WGNA-FB-20240320	QC	3/20/2024	3/21/2024
C2702-FS	WGNA-SW-19-20240320	SW	3/20/2024	3/21/2024
C2703-FS	WGNA-SW-17-20240320	SW	3/20/2024	3/21/2024
C2704-FS	WGNA-SW-28-20240320	SW	3/20/2024	3/21/2024
C2705-FS	WGNA-SW-14-20240320	SW	3/20/2024	3/21/2024
C2706-FS	WGNA-SW-63-20240320	SW	3/20/2024	3/21/2024
C2707-FS	WGNA-SW-10-20240320	SW	3/20/2024	3/21/2024
C2708-FS	WGNA-SW-05-20240320	SW	3/20/2024	3/21/2024
C2709-FS	WGNA-SW-04-20240320	SW	3/20/2024	3/21/2024
C2710-FS	WGNA-SW-64-20240320	SW	3/20/2024	3/21/2024
C2710MS-FS	WGNA-SW-64-20240320	SW	3/20/2024	3/21/2024
C2710MSD-FS	WGNA-SW-64-20240320	SW	3/20/2024	3/21/2024
C2711-FS	WGNA-SW-03-20240320	SW	3/20/2024	3/21/2024
C2712-FS	WGNA-SW-01-20240320	SW	3/20/2024	3/21/2024
C2713-FS	WGNA-SW-52-20240320	SW	3/20/2024	3/21/2024
C2714-FS	WGNA-SW-DUP-03-20240320	SW	3/20/2024	3/21/2024
C2715-FS	WGNA-SW-DUP-04-20240320	SW	3/20/2024	3/21/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MB88 IB				MB88 IB			
Battelle ID		MB88 IB_03/22/2024 22:51				MB88 IB_03/23/2024 00:45			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/22/2024				03/23/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MB88 IB	MB88 IB
Battelle ID	MB88 IB_03/22/2024 22:51	MB88 IB_03/23/2024 00:45
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/22/2024	03/23/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	100	100
13C5-PFPeA	103	100
13C5-PFHxA	104	105
13C4-PFHpA	104	103
13C8-PFOA	106	104
13C9-PFNA	98	98
13C6-PFDA	102	92
13C7-PFUnA	99	95
13C2-PFDoA	109	113
13C2-PFTeDA	103	99
13C3-PFBS	102	112
13C3-PFHxS	104	92
13C8-PFOS	105	108
13C2-4:2FTS	114	117
13C2-6:2FTS	102	103
13C2-8:2FTS	104	112
13C8-PFOSA	108	104
d3-MeFOSA	110	108
d5-EtFOSA	110	107
d3-MeFOSAA	113	107
d5-EtFOSAA	117	116
d7-MeFOSE	109	111
d9-EtFOSE	108	107
13C3-HFPO-DA	100	97
NIS Recoveries (%)		
13C3-PFBA	113	103
13C2-PFHxA	103	101
13C4-PFOA	103	99
13C5-PFNA	107	105
13C2-PFDA	104	101
18O2-PFHxS	110	101
13C4-PFOS	98	95

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MB88 IB				MB88 IB			
Battelle ID		MB88 IB_03/23/2024 09:29				MB88 IB_03/23/2024 14:03			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/23/2024				03/23/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MB88 IB	MB88 IB
Battelle ID	MB88 IB_03/23/2024 09:29	MB88 IB_03/23/2024 14:03
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/23/2024	03/23/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	99	99
13C5-PFPeA	102	111
13C5-PFHxA	102	111
13C4-PFHpA	100	107
13C8-PFOA	100	99
13C9-PFNA	94	98
13C6-PFDA	95	98
13C7-PFUnA	92	92
13C2-PFDoA	104	104
13C2-PFTeDA	102	100
13C3-PFBS	105	102
13C3-PFHxS	105	99
13C8-PFOS	102	114
13C2-4:2FTS	120	128
13C2-6:2FTS	105	94
13C2-8:2FTS	98	89
13C8-PFOSA	99	112
d3-MeFOSA	100	112
d5-EtFOSA	99	112
d3-MeFOSAA	114	125
d5-EtFOSAA	133	131
d7-MeFOSE	107	114
d9-EtFOSE	104	113
13C3-HFPO-DA	102	110
NIS Recoveries (%)		
13C3-PFBA	107	104
13C2-PFHxA	103	97
13C4-PFOA	110	106
13C5-PFNA	108	104
13C2-PFDA	110	104
18O2-PFHxS	104	107
13C4-PFOS	100	89

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MB88 IB				MB88 IB			
Battelle ID		MB88 IB_03/23/2024 18:14				MB88 IB_03/23/2024 20:53			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/23/2024				03/23/2024			
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS				Sciex 6500+ (AG) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MB88 IB	MB88 IB
Battelle ID	MB88 IB_03/23/2024 18:14	MB88 IB_03/23/2024 20:53
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/23/2024	03/23/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	101	99
13C5-PFPeA	108	104
13C5-PFHxA	105	106
13C4-PFHpA	109	109
13C8-PFOA	102	101
13C9-PFNA	99	111
13C6-PFDA	94	102
13C7-PFUnA	100	96
13C2-PFDoA	105	109
13C2-PFTeDA	101	106
13C3-PFBS	109	116
13C3-PFHxS	108	111
13C8-PFOS	105	104
13C2-4:2FTS	127	128
13C2-6:2FTS	119	115
13C2-8:2FTS	95	105
13C8-PFOSA	109	96
d3-MeFOSA	105	102
d5-EtFOSA	107	103
d3-MeFOSAA	122	113
d5-EtFOSAA	129	124
d7-MeFOSE	111	109
d9-EtFOSE	110	107
13C3-HFPO-DA	105	101
NIS Recoveries (%)		
13C3-PFBA	103	113
13C2-PFHxA	98	110
13C4-PFOA	100	109
13C5-PFNA	102	108
13C2-PFDA	103	107
18O2-PFHxS	99	99
13C4-PFOS	92	103

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ777PB-FS
Sample Type	PB
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.475
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.26 U	DQ777PB-FS(0)	1.000	3/23/2024	0.628	1.26	6.74
PFPeA	2706-90-3	1.19 U	DQ777PB-FS(0)	1.000	3/23/2024	0.593	1.19	3.37
PFHxA	307-24-4	0.867 U	DQ777PB-FS(0)	1.000	3/23/2024	0.434	0.867	1.68
PFHpA	375-85-9	0.364 U	DQ777PB-FS(0)	1.000	3/23/2024	0.182	0.364	1.68
PFOA	335-67-1	0.611 U	DQ777PB-FS(0)	1.000	3/23/2024	0.305	0.611	1.68
PFNA	375-95-1	0.526 U	DQ777PB-FS(0)	1.000	3/23/2024	0.263	0.526	1.68
PFDA	335-76-2	0.469 U	DQ777PB-FS(0)	1.000	3/23/2024	0.235	0.469	1.68
PFUnA	2058-94-8	0.427 U	DQ777PB-FS(0)	1.000	3/23/2024	0.214	0.427	1.68
PFDoA	307-55-1	0.634 U	DQ777PB-FS(0)	1.000	3/23/2024	0.317	0.634	1.68
PFTrDA	72629-94-8	0.764 U	DQ777PB-FS(0)	1.000	3/23/2024	0.382	0.764	1.68
PFTeDA	376-06-7	0.903 U	DQ777PB-FS(0)	1.000	3/23/2024	0.452	0.903	1.68
PFBS	375-73-5	0.373 U	DQ777PB-FS(0)	1.000	3/23/2024	0.186	0.373	1.68
PFPeS	2706-91-4	0.272 U	DQ777PB-FS(0)	1.000	3/23/2024	0.136	0.272	1.68
PFHxS	355-46-4	0.613 U	DQ777PB-FS(0)	1.000	3/23/2024	0.306	0.613	1.68
PFHpS	375-92-8	0.429 U	DQ777PB-FS(0)	1.000	3/23/2024	0.215	0.429	1.68
PFOS	1763-23-1	0.522 U	DQ777PB-FS(0)	1.000	3/23/2024	0.261	0.522	1.68
PFNS	68259-12-1	0.524 U	DQ777PB-FS(0)	1.000	3/23/2024	0.262	0.524	1.68
PFDS	335-77-3	0.341 U	DQ777PB-FS(0)	1.000	3/23/2024	0.171	0.341	1.68
PFDoS	79780-39-5	0.379 U	DQ777PB-FS(0)	1.000	3/23/2024	0.189	0.379	1.68
4:2FTS	757124-72-4	2.78 U	DQ777PB-FS(0)	1.000	3/23/2024	1.39	2.78	6.74
6:2FTS	27619-97-2	3.12 U	DQ777PB-FS(0)	1.000	3/23/2024	1.56	3.12	6.74
8:2FTS	39108-34-4	1.93 U	DQ777PB-FS(0)	1.000	3/23/2024	0.964	1.93	6.74
PFOSA	754-91-6	0.396 U	DQ777PB-FS(0)	1.000	3/23/2024	0.198	0.396	1.68
NMeFOSA	31506-32-8	0.419 U	DQ777PB-FS(0)	1.000	3/23/2024	0.209	0.419	1.68
NEtFOSA	4151-50-2	0.210 U	DQ777PB-FS(0)	1.000	3/23/2024	0.105	0.210	1.68
NMeFOSAA	2355-31-9	1.38 U	DQ777PB-FS(0)	1.000	3/23/2024	0.689	1.38	1.68
NEtFOSAA	2991-50-6	1.20 U	DQ777PB-FS(0)	1.000	3/23/2024	0.601	1.20	1.68
NMeFOSE	24448-09-7	3.47 U	DQ777PB-FS(0)	1.000	3/23/2024	1.74	3.47	16.8
NEtFOSE	1691-99-2	3.05 U	DQ777PB-FS(0)	1.000	3/23/2024	1.53	3.05	16.8
HFPO-DA	13252-13-6	1.57 U	DQ777PB-FS(0)	1.000	3/23/2024	0.787	1.57	6.74
Adona	919005-14-4	1.46 U	DQ777PB-FS(0)	1.000	3/23/2024	0.731	1.46	6.74
PFMPA	377-73-1	1.32 U	DQ777PB-FS(0)	1.000	3/23/2024	0.661	1.32	3.37
PFMBA	863090-89-5	1.26 U	DQ777PB-FS(0)	1.000	3/23/2024	0.632	1.26	3.37
NFDHA	151772-58-6	1.60 U	DQ777PB-FS(0)	1.000	3/23/2024	0.800	1.60	3.37
9Cl-PF3ONS	756426-58-1	1.47 U	DQ777PB-FS(0)	1.000	3/23/2024	0.736	1.47	6.74
11Cl-PF3OUdS	763051-92-9	2.29 U	DQ777PB-FS(0)	1.000	3/23/2024	1.15	2.29	6.74
PFEESA	113507-82-7	0.446 U	DQ777PB-FS(0)	1.000	3/23/2024	0.223	0.446	3.37
3:3 FTCA	356-02-5	3.52 U	DQ777PB-FS(0)	1.000	3/23/2024	1.76	3.52	8.42
5:3 FTCA	914637-49-3	9.39 U	DQ777PB-FS(0)	1.000	3/23/2024	4.69	9.39	42.1
7:3 FTCA	812-70-4	11.0 U	DQ777PB-FS(0)	1.000	3/23/2024	5.49	11.0	42.1

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ777PB-FS
Sample Type	PB
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	99	DQ777PB-FS(0)	3/23/2024
13C5-PFPeA	100	DQ777PB-FS(0)	3/23/2024
13C5-PFHxA	102	DQ777PB-FS(0)	3/23/2024
13C4-PFHpA	103	DQ777PB-FS(0)	3/23/2024
13C8-PFOA	105	DQ777PB-FS(0)	3/23/2024
13C9-PFNA	101	DQ777PB-FS(0)	3/23/2024
13C6-PFDA	104	DQ777PB-FS(0)	3/23/2024
13C7-PFUnA	90	DQ777PB-FS(0)	3/23/2024
13C2-PFDoA	94	DQ777PB-FS(0)	3/23/2024
13C2-PFTeDA	75	DQ777PB-FS(0)	3/23/2024
13C3-PFBS	101	DQ777PB-FS(0)	3/23/2024
13C3-PFHxS	99	DQ777PB-FS(0)	3/23/2024
13C8-PFOS	105	DQ777PB-FS(0)	3/23/2024
13C2-4:2FTS	121	DQ777PB-FS(0)	3/23/2024
13C2-6:2FTS	102	DQ777PB-FS(0)	3/23/2024
13C2-8:2FTS	95	DQ777PB-FS(0)	3/23/2024
13C8-PFOSA	95	DQ777PB-FS(0)	3/23/2024
d3-MeFOSA	54	DQ777PB-FS(0)	3/23/2024
d5-EtFOSA	59	DQ777PB-FS(0)	3/23/2024
d3-MeFOSAA	104	DQ777PB-FS(0)	3/23/2024
d5-EtFOSAA	112	DQ777PB-FS(0)	3/23/2024
d7-MeFOSE	91	DQ777PB-FS(0)	3/23/2024
d9-EtFOSE	80	DQ777PB-FS(0)	3/23/2024
13C3-HFPO-DA	88	DQ777PB-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	74	DQ777PB-FS(0)	3/23/2024
13C2-PFHxA	73	DQ777PB-FS(0)	3/23/2024
13C4-PFOA	70	DQ777PB-FS(0)	3/23/2024
13C5-PFNA	69	DQ777PB-FS(0)	3/23/2024
13C2-PFDA	70	DQ777PB-FS(0)	3/23/2024
18O2-PFHxS	75	DQ777PB-FS(0)	3/23/2024
13C4-PFOS	68	DQ777PB-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ778LCS-FS
Sample Type	OPR
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.474
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	79.3	DQ778LCS-FS(0)	1.000	3/23/2024	84.4	94		70	140
PFPeA	2706-90-3	39.8	DQ778LCS-FS(0)	1.000	3/23/2024	42.2	94		65	135
PFHxA	307-24-4	19.2	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	91		70	145
PFHpA	375-85-9	19.7	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	93		70	150
PFOA	335-67-1	23.7	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	112		70	150
PFNA	375-95-1	22.2	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	105		70	150
PFDA	335-76-2	19.8	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	94		70	140
PFUnA	2058-94-8	19.0	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	90		70	145
PFDoA	307-55-1	19.5	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	92		70	140
PFTrDA	72629-94-8	19.0	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	90		65	140
PFTeDA	376-06-7	20.4	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	97		60	140
PFBS	375-73-5	18.2	DQ778LCS-FS(0)	1.000	3/23/2024	18.7	97		60	145
PFPeS	2706-91-4	18.4	DQ778LCS-FS(0)	1.000	3/23/2024	19.9	92		65	140
PFHxS	355-46-4	17.1	DQ778LCS-FS(0)	1.000	3/23/2024	19.3	89		65	145
PFHpS	375-92-8	20.3	DQ778LCS-FS(0)	1.000	3/23/2024	20.1	101		70	150
PFOS	1763-23-1	18.4	DQ778LCS-FS(0)	1.000	3/23/2024	19.6	94		55	150
PFNS	68259-12-1	18.2	DQ778LCS-FS(0)	1.000	3/23/2024	20.3	90		65	145
PFDS	335-77-3	19.1	DQ778LCS-FS(0)	1.000	3/23/2024	20.4	94		60	145
PFDoS	79780-39-5	16.3	DQ778LCS-FS(0)	1.000	3/23/2024	20.5	80		50	145
4:2FTS	757124-72-4	81.6	DQ778LCS-FS(0)	1.000	3/23/2024	79.1	103		70	145
6:2FTS	27619-97-2	71.0	DQ778LCS-FS(0)	1.000	3/23/2024	80.2	89		65	155
8:2FTS	39108-34-4	69.4	DQ778LCS-FS(0)	1.000	3/23/2024	81.0	86		60	150
PFOSA	754-91-6	21.5	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	102		70	145
NMeFOSA	31506-32-8	21.2	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	100		60	150
NEtFOSA	4151-50-2	20.4	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	97		65	145
NMeFOSAA	2355-31-9	21.1	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	100		50	140
NEtFOSAA	2991-50-6	17.6	DQ778LCS-FS(0)	1.000	3/23/2024	21.1	83		70	145
NMeFOSE	24448-09-7	205	DQ778LCS-FS(0)	1.000	3/23/2024	211	97		70	145
NEtFOSE	1691-99-2	218	DQ778LCS-FS(0)	1.000	3/23/2024	211	103		70	135
HFPO-DA	13252-13-6	77.6	DQ778LCS-FS(0)	1.000	3/23/2024	84.4	92		70	140
Adona	919005-14-4	80.9	DQ778LCS-FS(0)	1.000	3/23/2024	79.8	101		65	145
PFMPA	377-73-1	37.1	DQ778LCS-FS(0)	1.000	3/23/2024	42.2	88		55	140
PFMBA	863090-89-5	39.6	DQ778LCS-FS(0)	1.000	3/23/2024	42.2	94		60	150
NFDHA	151772-58-6	43.9	DQ778LCS-FS(0)	1.000	3/23/2024	42.2	104		50	150
9Cl-PF3ONS	756426-58-1	72.9	DQ778LCS-FS(0)	1.000	3/23/2024	78.9	92		70	155
11Cl-PF3OUdS	763051-92-9	70.2	DQ778LCS-FS(0)	1.000	3/23/2024	79.8	88		55	160
PFEESA	113507-82-7	37.5	DQ778LCS-FS(0)	1.000	3/23/2024	37.6	100		70	140
3:3 FTCA	356-02-5	91.8	DQ778LCS-FS(0)	1.000	3/23/2024	105	87		65	130
5:3 FTCA	914637-49-3	483	DQ778LCS-FS(0)	1.000	3/23/2024	527	92		70	135
7:3 FTCA	812-70-4	477	DQ778LCS-FS(0)	1.000	3/23/2024	527	91		50	145

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ778LCS-FS
Sample Type	OPR
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	99	DQ778LCS-FS(0)	3/23/2024
13C5-PFPeA	107	DQ778LCS-FS(0)	3/23/2024
13C5-PFHxA	104	DQ778LCS-FS(0)	3/23/2024
13C4-PFHpA	105	DQ778LCS-FS(0)	3/23/2024
13C8-PFOA	103	DQ778LCS-FS(0)	3/23/2024
13C9-PFNA	111	DQ778LCS-FS(0)	3/23/2024
13C6-PFDA	95	DQ778LCS-FS(0)	3/23/2024
13C7-PFUnA	91	DQ778LCS-FS(0)	3/23/2024
13C2-PFDoA	93	DQ778LCS-FS(0)	3/23/2024
13C2-PFTeDA	83	DQ778LCS-FS(0)	3/23/2024
13C3-PFBS	104	DQ778LCS-FS(0)	3/23/2024
13C3-PFHxS	101	DQ778LCS-FS(0)	3/23/2024
13C8-PFOS	111	DQ778LCS-FS(0)	3/23/2024
13C2-4:2FTS	116	DQ778LCS-FS(0)	3/23/2024
13C2-6:2FTS	110	DQ778LCS-FS(0)	3/23/2024
13C2-8:2FTS	104	DQ778LCS-FS(0)	3/23/2024
13C8-PFOSA	100	DQ778LCS-FS(0)	3/23/2024
d3-MeFOSA	76	DQ778LCS-FS(0)	3/23/2024
d5-EtFOSA	75	DQ778LCS-FS(0)	3/23/2024
d3-MeFOSAA	109	DQ778LCS-FS(0)	3/23/2024
d5-EtFOSAA	131	DQ778LCS-FS(0)	3/23/2024
d7-MeFOSE	103	DQ778LCS-FS(0)	3/23/2024
d9-EtFOSE	93	DQ778LCS-FS(0)	3/23/2024
13C3-HFPO-DA	102	DQ778LCS-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	70	DQ778LCS-FS(0)	3/23/2024
13C2-PFHxA	68	DQ778LCS-FS(0)	3/23/2024
13C4-PFOA	69	DQ778LCS-FS(0)	3/23/2024
13C5-PFNA	68	DQ778LCS-FS(0)	3/23/2024
13C2-PFDA	75	DQ778LCS-FS(0)	3/23/2024
18O2-PFHxS	72	DQ778LCS-FS(0)	3/23/2024
13C4-PFOS	63	DQ778LCS-FS(0)	3/23/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ779LCS-FS
Sample Type	LLOPR
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.474
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	13.8	DQ779LCS-FS(0)	1.000	3/23/2024	13.5	102		70	140
PFPeA	2706-90-3	6.80	DQ779LCS-FS(0)	1.000	3/23/2024	6.75	101		65	135
PFHxA	307-24-4	3.57	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	106		70	145
PFHpA	375-85-9	3.44	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	102		70	150
PFOA	335-67-1	4.59	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	136		70	150
PFNA	375-95-1	4.12	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	122		70	150
PFDA	335-76-2	3.08	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	91		70	140
PFUnA	2058-94-8	3.34	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	99		70	145
PFDoA	307-55-1	3.74	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	111		70	140
PFTrDA	72629-94-8	3.35	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	99		65	140
PFTeDA	376-06-7	3.17	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	94		60	140
PFBS	375-73-5	3.04	DQ779LCS-FS(0)	1.000	3/23/2024	2.99	102		60	145
PFPeS	2706-91-4	3.29	DQ779LCS-FS(0)	1.000	3/23/2024	3.18	103		65	140
PFHxS	355-46-4	3.22	DQ779LCS-FS(0)	1.000	3/23/2024	3.09	104		65	145
PFHpS	375-92-8	3.37	DQ779LCS-FS(0)	1.000	3/23/2024	3.22	105		70	150
PFOS	1763-23-1	3.21	DQ779LCS-FS(0)	1.000	3/23/2024	3.13	103		55	150
PFNS	68259-12-1	3.32	DQ779LCS-FS(0)	1.000	3/23/2024	3.25	102		65	145
PFDS	335-77-3	3.39	DQ779LCS-FS(0)	1.000	3/23/2024	3.26	104		60	145
PFDoS	79780-39-5	3.07	DQ779LCS-FS(0)	1.000	3/23/2024	3.27	94		50	145
4:2FTS	757124-72-4	13.7	DQ779LCS-FS(0)	1.000	3/23/2024	12.7	108		70	145
6:2FTS	27619-97-2	14.4	DQ779LCS-FS(0)	1.000	3/23/2024	12.8	113		65	155
8:2FTS	39108-34-4	14.2	DQ779LCS-FS(0)	1.000	3/23/2024	13.0	109		60	150
PFOSA	754-91-6	3.86	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	114		70	145
NMeFOSA	31506-32-8	3.22	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	95		60	150
NEtFOSA	4151-50-2	3.96	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	117		65	145
NMeFOSAA	2355-31-9	3.11	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	92		50	140
NEtFOSAA	2991-50-6	3.19	DQ779LCS-FS(0)	1.000	3/23/2024	3.38	94		70	145
NMeFOSE	24448-09-7	32.9	DQ779LCS-FS(0)	1.000	3/23/2024	33.8	97		70	145
NEtFOSE	1691-99-2	36.7	DQ779LCS-FS(0)	1.000	3/23/2024	33.8	109		70	135
HFPO-DA	13252-13-6	14.6	DQ779LCS-FS(0)	1.000	3/23/2024	13.5	108		70	140
Adona	919005-14-4	14.4	DQ779LCS-FS(0)	1.000	3/23/2024	12.8	113		65	145
PFMPA	377-73-1	6.27	DQ779LCS-FS(0)	1.000	3/23/2024	6.75	93		55	140
PFMBA	863090-89-5	6.19	DQ779LCS-FS(0)	1.000	3/23/2024	6.75	92		60	150
NFDHA	151772-58-6	7.05	DQ779LCS-FS(0)	1.000	3/23/2024	6.75	104		50	150
9Cl-PF3ONS	756426-58-1	13.3	DQ779LCS-FS(0)	1.000	3/23/2024	12.6	106		70	155
11Cl-PF3OUdS	763051-92-9	13.9	DQ779LCS-FS(0)	1.000	3/23/2024	12.8	109		55	160
PFEESA	113507-82-7	6.28	DQ779LCS-FS(0)	1.000	3/23/2024	6.01	104		70	140
3:3 FTCA	356-02-5	16.5	DQ779LCS-FS(0)	1.000	3/23/2024	16.9	98		65	130
5:3 FTCA	914637-49-3	78.8	DQ779LCS-FS(0)	1.000	3/23/2024	84.4	93		70	135
7:3 FTCA	812-70-4	82.9	DQ779LCS-FS(0)	1.000	3/23/2024	84.4	98		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ779LCS-FS
Sample Type	LLOPR
Collection Date	03/22/2024
Extraction Date	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	97	DQ779LCS-FS(0)	3/23/2024
13C5-PFPeA	99	DQ779LCS-FS(0)	3/23/2024
13C5-PFHxA	99	DQ779LCS-FS(0)	3/23/2024
13C4-PFHpA	100	DQ779LCS-FS(0)	3/23/2024
13C8-PFOA	103	DQ779LCS-FS(0)	3/23/2024
13C9-PFNA	93	DQ779LCS-FS(0)	3/23/2024
13C6-PFDA	102	DQ779LCS-FS(0)	3/23/2024
13C7-PFUnA	99	DQ779LCS-FS(0)	3/23/2024
13C2-PFDoA	99	DQ779LCS-FS(0)	3/23/2024
13C2-PFTeDA	92	DQ779LCS-FS(0)	3/23/2024
13C3-PFBS	100	DQ779LCS-FS(0)	3/23/2024
13C3-PFHxS	93	DQ779LCS-FS(0)	3/23/2024
13C8-PFOS	100	DQ779LCS-FS(0)	3/23/2024
13C2-4:2FTS	118	DQ779LCS-FS(0)	3/23/2024
13C2-6:2FTS	103	DQ779LCS-FS(0)	3/23/2024
13C2-8:2FTS	94	DQ779LCS-FS(0)	3/23/2024
13C8-PFOSA	94	DQ779LCS-FS(0)	3/23/2024
d3-MeFOSA	68	DQ779LCS-FS(0)	3/23/2024
d5-EtFOSA	68	DQ779LCS-FS(0)	3/23/2024
d3-MeFOSAA	100	DQ779LCS-FS(0)	3/23/2024
d5-EtFOSAA	119	DQ779LCS-FS(0)	3/23/2024
d7-MeFOSE	98	DQ779LCS-FS(0)	3/23/2024
d9-EtFOSE	86	DQ779LCS-FS(0)	3/23/2024
13C3-HFPO-DA	95	DQ779LCS-FS(0)	3/23/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	73	DQ779LCS-FS(0)	3/23/2024
13C2-PFHxA	73	DQ779LCS-FS(0)	3/23/2024
13C4-PFOA	69	DQ779LCS-FS(0)	3/23/2024
13C5-PFNA	68	DQ779LCS-FS(0)	3/23/2024
13C2-PFDA	67	DQ779LCS-FS(0)	3/23/2024
18O2-PFHxS	74	DQ779LCS-FS(0)	3/23/2024
13C4-PFOS	64	DQ779LCS-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

			MS/MSD Background Sample									
Client ID		WGNA-SW-64-20240320	WGNA-SW-64-20240320									
Battelle ID		C2710MS-FS	C2710-FS									
Sample Type		MS	SA									
Collection Date		03/20/2024	03/20/2024									
Extraction Date		03/22/2024	03/22/2024									
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS									
% Moisture		NA	NA									
Matrix		SW	SW									
Sample Size		0.512	0.507									
Size Unit-Basis		L	L								Control Limits	
Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Lower	Upper	
PFBA	375-22-4	75.6	4.78 J	C2710MS-FS(0)	1.000	3/23/2024	78.1	91		70	140	
PFPeA	2706-90-3	37.1	4.14	C2710MS-FS(0)	1.000	3/23/2024	39.1	84		65	135	
PFHxA	307-24-4	23.4	5.62	C2710MS-FS(0)	1.000	3/23/2024	19.5	91		70	145	
PFHpA	375-85-9	20.6	3.28	C2710MS-FS(0)	1.000	3/23/2024	19.5	89		70	150	
PFOA	335-67-1	34.4	11.7	C2710MS-FS(0)	1.000	3/23/2024	19.5	116		70	150	
PFNA	375-95-1	25.4	1.79	C2710MS-FS(0)	1.000	3/23/2024	19.5	121		70	150	
PFDA	335-76-2	16.7	0.440 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	86		70	140	
PFUnA	2058-94-8	18.9	0.400 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	97		70	145	
PFDoA	307-55-1	17.9	0.594 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	92		70	140	
PFTrDA	72629-94-8	14.8	0.716 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	76		65	140	
PFTeDA	376-06-7	19.0	0.846 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	97		60	140	
PFBS	375-73-5	24.2	9.58	C2710MS-FS(0)	1.000	3/23/2024	17.3	85		60	145	
PFPeS	2706-91-4	18.3	0.736 J	C2710MS-FS(0)	1.000	3/23/2024	18.4	95		65	140	
PFHxS	355-46-4	19.1	4.40	C2710MS-FS(0)	1.000	3/23/2024	17.9	82		65	145	
PFHpS	375-92-8	18.7	0.272 J	C2710MS-FS(0)	1.000	3/23/2024	18.6	99		70	150	
PFOS	1763-23-1	26.5	9.37	C2710MS-FS(0)	1.000	3/23/2024	18.1	95		55	150	
PFNS	68259-12-1	16.1	0.491 U	C2710MS-FS(0)	1.000	3/23/2024	18.8	86		65	145	
PFDS	335-77-3	14.0	0.320 U	C2710MS-FS(0)	1.000	3/23/2024	18.9	74		60	145	
PFDoS	79780-39-5	11.4	0.355 U	C2710MS-FS(0)	1.000	3/23/2024	19.0	60		50	145	
4:2FTS	757124-72-4	70.0	2.60 U	C2710MS-FS(0)	1.000	3/23/2024	73.2	96		70	145	
6:2FTS	27619-97-2	69.9	2.92 U	C2710MS-FS(0)	1.000	3/23/2024	74.2	94		65	155	
8:2FTS	39108-34-4	78.3	1.81 U	C2710MS-FS(0)	1.000	3/23/2024	75.0	104		60	150	
PFOSA	754-91-6	18.9	0.371 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	97		70	145	
NMeFOSA	31506-32-8	17.8	0.393 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	91		60	150	
NEtFOSA	4151-50-2	19.5	0.197 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	100		65	145	
NMeFOSAA	2355-31-9	15.2	1.29 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	78		50	140	
NEtFOSAA	2991-50-6	17.2	1.13 U	C2710MS-FS(0)	1.000	3/23/2024	19.5	88		70	145	
NMeFOSE	24448-09-7	185	3.25 U	C2710MS-FS(0)	1.000	3/23/2024	195	95		70	145	
NEtFOSE	1691-99-2	194	2.86 U	C2710MS-FS(0)	1.000	3/23/2024	195	99		70	135	
HFPO-DA	13252-13-6	73.9	1.48 U	C2710MS-FS(0)	1.000	3/23/2024	78.1	95		70	140	
Adona	919005-14-4	75.0	1.37 U	C2710MS-FS(0)	1.000	3/23/2024	73.8	102		65	145	
PFMPA	377-73-1	30.0	1.24 U	C2710MS-FS(0)	1.000	3/23/2024	39.1	77		55	140	
PFMBA	863090-89-5	32.3	1.18 U	C2710MS-FS(0)	1.000	3/23/2024	39.1	83		60	150	
NFDHA	151772-58-6	41.3	1.50 U	C2710MS-FS(0)	1.000	3/23/2024	39.1	106		50	150	
9Cl-PF3ONS	756426-58-1	65.0	1.38 U	C2710MS-FS(0)	1.000	3/23/2024	73.1	89		70	155	
11Cl-PF3OUdS	763051-92-9	48.2	2.15 U	C2710MS-FS(0)	1.000	3/23/2024	73.8	65		55	160	
PFEESA	113507-82-7	33.5	0.418 U	C2710MS-FS(0)	1.000	3/23/2024	34.8	96		70	140	
3:3 FTCA	356-02-5	89.7	3.29 U	C2710MS-FS(0)	1.000	3/23/2024	97.7	92		65	130	
5:3 FTCA	914637-49-3	458	8.80 U	C2710MS-FS(0)	1.000	3/23/2024	488	94		70	135	
7:3 FTCA	812-70-4	491	10.3 U	C2710MS-FS(0)	1.000	3/23/2024	488	101		50	145	

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

		MS/MSD Background Sample
Client ID	WGNA-SW-64-20240320	WGNA-SW-64-20240320
Battelle ID	C2710MS-FS	C2710-FS
Sample Type	MS	SA
Collection Date	03/20/2024	03/20/2024
Extraction Date	03/22/2024	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	95	C2710MS-FS(0)	3/23/2024
13C5-PFPeA	113	C2710MS-FS(0)	3/23/2024
13C5-PFHxA	91	C2710MS-FS(0)	3/23/2024
13C4-PFHpA	104	C2710MS-FS(0)	3/23/2024
13C8-PFOA	97	C2710MS-FS(0)	3/23/2024
13C9-PFNA	96	C2710MS-FS(0)	3/23/2024
13C6-PFDA	97	C2710MS-FS(0)	3/23/2024
13C7-PFUnA	75	C2710MS-FS(0)	3/23/2024
13C2-PFDoA	67	C2710MS-FS(0)	3/23/2024
13C2-PFTeDA	39	C2710MS-FS(0)	3/23/2024
13C3-PFBS	102	C2710MS-FS(0)	3/23/2024
13C3-PFHxS	101	C2710MS-FS(0)	3/23/2024
13C8-PFOS	103	C2710MS-FS(0)	3/23/2024
13C2-4:2FTS	108	C2710MS-FS(0)	3/23/2024
13C2-6:2FTS	113	C2710MS-FS(0)	3/23/2024
13C2-8:2FTS	102	C2710MS-FS(0)	3/23/2024
13C8-PFOSA	105	C2710MS-FS(0)	3/23/2024
d3-MeFOSA	71	C2710MS-FS(0)	3/23/2024
d5-EtFOSA	58	C2710MS-FS(0)	3/23/2024
d3-MeFOSAA	103	C2710MS-FS(0)	3/23/2024
d5-EtFOSAA	106	C2710MS-FS(0)	3/23/2024
d7-MeFOSE	64	C2710MS-FS(0)	3/23/2024
d9-EtFOSE	50	C2710MS-FS(0)	3/23/2024
13C3-HFPO-DA	94	C2710MS-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	79	C2710MS-FS(0)	3/23/2024
13C2-PFHxA	73	C2710MS-FS(0)	3/23/2024
13C4-PFOA	76	C2710MS-FS(0)	3/23/2024
13C5-PFNA	70	C2710MS-FS(0)	3/23/2024
13C2-PFDA	77	C2710MS-FS(0)	3/23/2024
18O2-PFHxS	76	C2710MS-FS(0)	3/23/2024
13C4-PFOS	68	C2710MS-FS(0)	3/23/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

			MS/MSD Background Sample
Client ID		WGNA-SW-64-20240320	WGNA-SW-64-20240320
Battelle ID		C2710MSD-FS	C2710-FS
Sample Type		MSD	SA
Collection Date		03/20/2024	03/20/2024
Extraction Date		03/22/2024	03/22/2024
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
% Moisture		NA	NA
Matrix		SW	SW
Sample Size		0.549	0.507
Size Unit-Basis		L	L

Analyte	CAS No.	Result (ng/L)	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Control Limits Upper	RPD	Qual	RPD Limit
PFBA	375-22-4	70.3	4.78 J	C2710MSD-FS(0)	1.000	3/23/2024	72.9	90		70	140	1.1		≤ 30
PFPeA	2706-90-3	35.7	4.14	C2710MSD-FS(0)	1.000	3/23/2024	36.4	87		65	135	3.5		≤ 30
PFHxA	307-24-4	23.0	5.62	C2710MSD-FS(0)	1.000	3/23/2024	18.2	95		70	145	4.3		≤ 30
PFHpA	375-85-9	19.9	3.28	C2710MSD-FS(0)	1.000	3/23/2024	18.2	91		70	150	2.2		≤ 30
PFOA	335-67-1	30.1	11.7	C2710MSD-FS(0)	1.000	3/23/2024	18.2	101		70	150	13.8		≤ 30
PFNA	375-95-1	21.3	1.79	C2710MSD-FS(0)	1.000	3/23/2024	18.2	107		70	150	12.3		≤ 30
PFDA	335-76-2	16.9	0.440 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	93		70	140	7.8		≤ 30
PFUnA	2058-94-8	17.1	0.400 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	94		70	145	3.1		≤ 30
PFDoA	307-55-1	16.9	0.594 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	93		70	140	1.1		≤ 30
PFTrDA	72629-94-8	13.1	0.716 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	72		65	140	5.4		≤ 30
PFTeDA	376-06-7	16.8	0.846 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	92		60	140	5.3		≤ 30
PFBS	375-73-5	23.6	9.58	C2710MSD-FS(0)	1.000	3/23/2024	16.2	87		60	145	2.3		≤ 30
PFPeS	2706-91-4	16.1	0.736 J	C2710MSD-FS(0)	1.000	3/23/2024	17.1	90		65	140	5.4		≤ 30
PFHxS	355-46-4	18.8	4.40	C2710MSD-FS(0)	1.000	3/23/2024	16.7	86		65	145	4.8		≤ 30
PFHpS	375-92-8	18.3	0.272 J	C2710MSD-FS(0)	1.000	3/23/2024	17.4	104		70	150	4.9		≤ 30
PFOS	1763-23-1	25.4	9.37	C2710MSD-FS(0)	1.000	3/23/2024	16.9	95		55	150	0.0		≤ 30
PFNS	68259-12-1	14.7	0.491 U	C2710MSD-FS(0)	1.000	3/23/2024	17.5	84		65	145	2.4		≤ 30
PFDS	335-77-3	13.6	0.320 U	C2710MSD-FS(0)	1.000	3/23/2024	17.6	77		60	145	4.0		≤ 30
PFDoS	79780-39-5	10.7	0.355 U	C2710MSD-FS(0)	1.000	3/23/2024	17.7	60		50	145	0.0		≤ 30
4:2FTS	757124-72-4	63.1	2.60 U	C2710MSD-FS(0)	1.000	3/23/2024	68.3	92		70	145	4.3		≤ 30
6:2FTS	27619-97-2	72.6	2.92 U	C2710MSD-FS(0)	1.000	3/23/2024	69.2	105		65	155	11.1		≤ 30
8:2FTS	39108-34-4	62.6	1.81 U	C2710MSD-FS(0)	1.000	3/23/2024	70.0	89		60	150	15.5		≤ 30
PFOSA	754-91-6	18.3	0.371 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	101		70	145	4.0		≤ 30
NMeFOSA	31506-32-8	18.3	0.393 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	101		60	150	10.4		≤ 30
NEtFOSA	4151-50-2	15.6	0.197 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	86		65	145	15.1		≤ 30
NMeFOSAA	2355-31-9	14.1	1.29 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	77		50	140	1.3		≤ 30
NEtFOSAA	2991-50-6	15.5	1.13 U	C2710MSD-FS(0)	1.000	3/23/2024	18.2	85		70	145	3.5		≤ 30
NMeFOSE	24448-09-7	164	3.25 U	C2710MSD-FS(0)	1.000	3/23/2024	182	90		70	145	5.4		≤ 30
NEtFOSE	1691-99-2	182	2.86 U	C2710MSD-FS(0)	1.000	3/23/2024	182	100		70	135	1.0		≤ 30
HFPO-DA	13252-13-6	61.0	1.48 U	C2710MSD-FS(0)	1.000	3/23/2024	72.9	84		70	140	12.3		≤ 30
Adona	919005-14-4	58.0	1.37 U	C2710MSD-FS(0)	1.000	3/23/2024	68.9	84		65	145	19.4		≤ 30
PFMPA	377-73-1	30.3	1.24 U	C2710MSD-FS(0)	1.000	3/23/2024	36.4	83		55	140	7.5		≤ 30
PFMBA	863090-89-5	31.4	1.18 U	C2710MSD-FS(0)	1.000	3/23/2024	36.4	86		60	150	3.6		≤ 30
NFDHA	151772-58-6	42.0	1.50 U	C2710MSD-FS(0)	1.000	3/23/2024	36.4	115		50	150	8.1		≤ 30
9Cl-PF3ONS	756426-58-1	56.4	1.38 U	C2710MSD-FS(0)	1.000	3/23/2024	68.1	83		70	155	7.0		≤ 30
11Cl-PF3OUdS	763051-92-9	38.9	2.15 U	C2710MSD-FS(0)	1.000	3/23/2024	68.9	56		55	160	14.9		≤ 30
PFEESA	113507-82-7	33.0	0.418 U	C2710MSD-FS(0)	1.000	3/23/2024	32.4	102		70	140	6.1		≤ 30
3:3 FTCA	356-02-5	87.8	3.29 U	C2710MSD-FS(0)	1.000	3/23/2024	91.1	96		65	130	4.3		≤ 30
5:3 FTCA	914637-49-3	438	8.80 U	C2710MSD-FS(0)	1.000	3/23/2024	455	96		70	135	2.1		≤ 30
7:3 FTCA	812-70-4	486	10.3 U	C2710MSD-FS(0)	1.000	3/23/2024	455	107		50	145	5.8		≤ 30

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

		MS/MSD Background Sample
Client ID	WGNA-SW-64-20240320	WGNA-SW-64-20240320
Battelle ID	C2710MSD-FS	C2710-FS
Sample Type	MSD	SA
Collection Date	03/20/2024	03/20/2024
Extraction Date	03/22/2024	03/22/2024
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS

EIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C4-PFBA	100	C2710MSD-FS(0)	3/23/2024
13C5-PFPeA	114	C2710MSD-FS(0)	3/23/2024
13C5-PFHxA	90	C2710MSD-FS(0)	3/23/2024
13C4-PFHpA	104	C2710MSD-FS(0)	3/23/2024
13C8-PFOA	107	C2710MSD-FS(0)	3/23/2024
13C9-PFNA	103	C2710MSD-FS(0)	3/23/2024
13C6-PFDA	99	C2710MSD-FS(0)	3/23/2024
13C7-PFUnA	88	C2710MSD-FS(0)	3/23/2024
13C2-PFDoA	74	C2710MSD-FS(0)	3/23/2024
13C2-PFTeDA	48	C2710MSD-FS(0)	3/23/2024
13C3-PFBS	101	C2710MSD-FS(0)	3/23/2024
13C3-PFHxS	100	C2710MSD-FS(0)	3/23/2024
13C8-PFOS	115	C2710MSD-FS(0)	3/23/2024
13C2-4:2FTS	108	C2710MSD-FS(0)	3/23/2024
13C2-6:2FTS	109	C2710MSD-FS(0)	3/23/2024
13C2-8:2FTS	108	C2710MSD-FS(0)	3/23/2024
13C8-PFOSA	111	C2710MSD-FS(0)	3/23/2024
d3-MeFOSA	80	C2710MSD-FS(0)	3/23/2024
d5-EtFOSA	68	C2710MSD-FS(0)	3/23/2024
d3-MeFOSAA	121	C2710MSD-FS(0)	3/23/2024
d5-EtFOSAA	123	C2710MSD-FS(0)	3/23/2024
d7-MeFOSE	73	C2710MSD-FS(0)	3/23/2024
d9-EtFOSE	55	C2710MSD-FS(0)	3/23/2024
13C3-HFPO-DA	114	C2710MSD-FS(0)	3/23/2024

NIS Recoveries (%)	**Recovery**	**Extract ID**	**Analysis Date**
13C3-PFBA	72	C2710MSD-FS(0)	3/23/2024
13C2-PFHxA	66	C2710MSD-FS(0)	3/23/2024
13C4-PFOA	68	C2710MSD-FS(0)	3/23/2024
13C5-PFNA	66	C2710MSD-FS(0)	3/23/2024
13C2-PFDA	68	C2710MSD-FS(0)	3/23/2024
18O2-PFHxS	69	C2710MSD-FS(0)	3/23/2024
13C4-PFOS	58	C2710MSD-FS(0)	3/23/2024

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Glossary of Data Qualifiers

Flag:	Application:
B	Analyte detected in the Procedural Blank above 1/2 the Limit of Quantitation (LOQ)
B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
J	Analyte detected below the Limit of Quantitation (LOQ)
MI	Significant Matrix Interference - value could not be determined.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Detection Limit (DL) value, Limit of Detection (LOD) reported
I	Ion ratio outside of criteria (50% difference from calibration expected ratio)

QA/QC Summary
Batch 24-0213

Project:	CTO-WE04: WR125 NAS JRB Willow Grove
Client Project Manager:	Rocco Mercuri
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	SW, QC
Data Set:	DP-24-0238
Analytical SOP:	5-381
Method Reference:	*Draft* EPA 1633

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
3/20/2024	3/21/2024	1.3, 1.1
Corrective Actions	None.	
Sample Storage	Samples stored frozen until extraction.	
Related samples	None.	

	METHOD SUMMARIES
Sample Preparation	Water samples were fortified with surrogates in the original sample container from the field. The water was extracted using a Weak-anion exchange (WAX) / carbon (GCB) solid phase extraction (SPE) cartridge. Target analytes are eluted from the WAX/GCB SPE using 1% NH_3OH in methanol. Extracts were acidified with acetic acid, fortified with internal standards and transferred to LC-MS/MS for analysis.
Prep comments	pH of all samples prior to SPE extraction was verified between 6.5 ± 0.5.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations to three (3) significant figures.
Analysis Comments	Samples analyzed on Sciex 6500+ (AG) LC-MS/MS. The calibration curve contains branched and linear isomers for PFOA, PFNA, PFHxS, PFOS, PFOSA, MeFOSAA, EtFOSAA, MeFOSA, EtFOSA, MeFOSE, and EtFOSE. Individual samples are reviewed for linear and branched isomers. The Branched Checklist Report included in the Miscellaneous Documentation section of the data package indicates if the analyte reported contains linear, branched, or a mix of isomers. Due to potential matrix interferences, the following quantifications updates were made for this batch: • 13C2-4:2FTS is quantified using 13C3-PFBA. • PFTrDA and PFDoS are quantified using 13C2-PFDoA.

QA/QC Summary
Batch 24-0213

	The following analytes are "I" qualified as the ion ratio is outside of the 50% criteria. • PFOSA in C2712-FS (WGNA-SW-01-20240320) Sample was reanalyzed to verify the exceedance; quant report is included in the unused data section. Secondary exceedances for calibrations, ICC, and CCV samples are not documented as the secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

Holding Times	Extraction Date(s)	Analysis Date(s)
	3/22/2024	3/22 – 23/2024

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
≤ ½ the LOQ Samples >10x PB	No exceedances noted.
	No comments.

Ongoing Precision and Recovery (OPR or LLOPR)	An OPR and LLOPR were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4 for recovery and <30% RPD	No exceedances noted.
	No comments.

Extracted Internal Standard Analytes (EIS)	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Non-Extracted Internal Standard (NIS) Analytes	Labelled analog compounds were added prior to analysis.
> 30% recovery based on the average area of the calibration curve.	No exceedances noted.
	No comments.

QA/QC Summary
Batch 24-0213

Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
Relative Standard Deviation (RSD) of RR or RF ≤ 20%	No exceedances noted.
	No comments.

Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.

Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Laboratory Duplicate Precision	NA	None
Matrix Spike / Matrix Spike Duplicate Recovery	0	None
Matrix Spike / Matrix Spike Duplicate Precision	0	None
Extracted Internal Standard Analytes (EIS)	0	None
Non-Extracted Internal Standards (NIS)	0	None

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MISCELLANEOUS DOCUMENTATION FORM

Project Title:	NAS JRB Willow Grove	**Data Set Number:**	DP-24-0238
Project Number:	G00078.XX.XX.0125.000001	**Prep Batch Number:**	24-0213
Entered By:	Kevin Bailey	**Entered On:**	03/25/2024
Test Code (Matrix Type):	EPA_1633(L)		

Samples that were manually integrated are noted on the Manual Integration reports with the comment “Manual” under the Integration Type columns. Changes were made due to incorrect auto integration of a peak by the data system. The analyst’s initials on this statement indicate that all integrations were reviewed and approved by the analyst performing the analysis.
KB 3/25/2024

13C2-4:2FTS is quantified using 13C3-PFBA.
PFTrDA and PFDoS are quantified using 13C2-PFDoA.

Task Leader Approval:

SupervisorApproval:

PM Approval:

Digitally signed by Robert Lizotte, Jr.
Date: 2024.03.26 10:02:05 -04'00'

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: PFBA **(**212.8 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFBA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C4-PFBA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFBA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFBA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFBA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFBA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFBA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFBA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFBA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFBA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C4-PFBA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFBA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFBA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFBA	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFBA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C4-PFBA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFBA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFBA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C4-PFBA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C4-PFBA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C4-PFBA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFBA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C4-PFBA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFBA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C4-PFBA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C4-PFBA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C4-PFBA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFBA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFBA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C4-PFBA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C4-PFBA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFBA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C4-PFBA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C4-PFBA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C4-PFBA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFBA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C4-PFBA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFBA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFBA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C4-PFBA	Baseline

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Manual Integration Report

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Analyte: PFPeA (263.0 / 219.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFPeA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFPeA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFPeA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFPeA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C5-PFPeA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C5-PFPeA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C5-PFPeA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C5-PFPeA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFPeA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C5-PFPeA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C5-PFPeA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C5-PFPeA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C5-PFPeA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C5-PFPeA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFPeA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C5-PFPeA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFPeA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFPeA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C5-PFPeA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C5-PFPeA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C5-PFPeA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C5-PFPeA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C5-PFPeA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFPeA	Valley

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Analyte: PFHxA_1 **(**313.0 / 269.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: PFHxA_2 **(**313.0 / 118.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Analyte: PFHpA_1 **(**363.1 / 319.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFHpA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFHpA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFHpA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFHpA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C4-PFHpA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFHpA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFHpA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFHpA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C4-PFHpA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFHpA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFHpA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C4-PFHpA	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFHpA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFHpA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFHpA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFHpA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C4-PFHpA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFHpA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C4-PFHpA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFHpA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFHpA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFHpA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C4-PFHpA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFHpA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C4-PFHpA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C4-PFHpA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFHpA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFHpA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFHpA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C4-PFHpA	Valley

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Analyte: PFHpA_2 **(**363.1 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFHpA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C4-PFHpA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFHpA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C4-PFHpA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFHpA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFHpA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C4-PFHpA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C4-PFHpA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFHpA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFHpA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C4-PFHpA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C4-PFHpA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C4-PFHpA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C4-PFHpA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C4-PFHpA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C4-PFHpA	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFHpA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFHpA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFHpA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFHpA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFHpA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C4-PFHpA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFHpA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFHpA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFHpA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFHpA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFHpA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFHpA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFHpA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C4-PFHpA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C4-PFHpA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFHpA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFHpA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFHpA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFHpA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C4-PFHpA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C4-PFHpA	Valley

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Analyte: PFOA_1 **(**413.0 / 369.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C8-PFOA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C8-PFOA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C8-PFOA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C8-PFOA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C8-PFOA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C8-PFOA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C8-PFOA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C8-PFOA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C8-PFOA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C8-PFOA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C8-PFOA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C8-PFOA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOA	Valley

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Manual Integration Report

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Analyte: PFOA_2 **(**413.0 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C8-PFOA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C8-PFOA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C8-PFOA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C8-PFOA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C8-PFOA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C8-PFOA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C8-PFOA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C8-PFOA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C8-PFOA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C8-PFOA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C8-PFOA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C8-PFOA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C8-PFOA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C8-PFOA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOA	Valley

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Manual Integration Report

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Analyte: PFNA_1 **(**463.0 / 419.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C9-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C9-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C9-PFNA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C9-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C9-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C9-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C9-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C9-PFNA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C9-PFNA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C9-PFNA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C9-PFNA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C9-PFNA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C9-PFNA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C9-PFNA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C9-PFNA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C9-PFNA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C9-PFNA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C9-PFNA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C9-PFNA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C9-PFNA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C9-PFNA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C9-PFNA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C9-PFNA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C9-PFNA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C9-PFNA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C9-PFNA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C9-PFNA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C9-PFNA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C9-PFNA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C9-PFNA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C9-PFNA	Baseline

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Manual Integration Report

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Analyte: PFNA_2 **(**463.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Manual	13C9-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C9-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C9-PFNA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C9-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C9-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C9-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C9-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C9-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C9-PFNA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C9-PFNA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C9-PFNA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C9-PFNA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C9-PFNA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C9-PFNA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C9-PFNA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C9-PFNA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C9-PFNA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C9-PFNA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C9-PFNA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C9-PFNA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C9-PFNA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C9-PFNA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C9-PFNA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C9-PFNA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C9-PFNA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C9-PFNA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C9-PFNA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C9-PFNA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C9-PFNA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C9-PFNA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C9-PFNA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C9-PFNA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C9-PFNA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C9-PFNA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C9-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C9-PFNA	Baseline

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Manual Integration Report

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Analyte: PFDA_1 **(**512.9 / 469.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C6-PFDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C6-PFDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C6-PFDA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C6-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C6-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C6-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C6-PFDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C6-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C6-PFDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C6-PFDA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C6-PFDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C6-PFDA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C6-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C6-PFDA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C6-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C6-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C6-PFDA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C6-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C6-PFDA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C6-PFDA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C6-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C6-PFDA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C6-PFDA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C6-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C6-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C6-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C6-PFDA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C6-PFDA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C6-PFDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C6-PFDA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C6-PFDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C6-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C6-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C6-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C6-PFDA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C6-PFDA	Valley

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Analyte: PFDA_2 **(**512.9 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C6-PFDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C6-PFDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C6-PFDA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C6-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C6-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C6-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C6-PFDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C6-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C6-PFDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C6-PFDA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C6-PFDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C6-PFDA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C6-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C6-PFDA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C6-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C6-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C6-PFDA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C6-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C6-PFDA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C6-PFDA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C6-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C6-PFDA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C6-PFDA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C6-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C6-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C6-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C6-PFDA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C6-PFDA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C6-PFDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C6-PFDA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C6-PFDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C6-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C6-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C6-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C6-PFDA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C6-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C6-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C6-PFDA	Valley

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Analyte: PFUnA_1 **(**563.1 / 519.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C7-PFUnA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C7-PFUnA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C7-PFUnA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C7-PFUnA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C7-PFUnA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C7-PFUnA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C7-PFUnA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C7-PFUnA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C7-PFUnA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C7-PFUnA	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C7-PFUnA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C7-PFUnA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C7-PFUnA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C7-PFUnA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C7-PFUnA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C7-PFUnA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C7-PFUnA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C7-PFUnA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C7-PFUnA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C7-PFUnA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C7-PFUnA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C7-PFUnA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C7-PFUnA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C7-PFUnA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C7-PFUnA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C7-PFUnA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C7-PFUnA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C7-PFUnA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C7-PFUnA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C7-PFUnA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C7-PFUnA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C7-PFUnA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C7-PFUnA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C7-PFUnA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C7-PFUnA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C7-PFUnA	Valley

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Analyte: PFUnA_2 **(**563.1 / 269.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C7-PFUnA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C7-PFUnA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C7-PFUnA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C7-PFUnA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C7-PFUnA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C7-PFUnA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C7-PFUnA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C7-PFUnA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C7-PFUnA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C7-PFUnA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C7-PFUnA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C7-PFUnA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C7-PFUnA	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C7-PFUnA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C7-PFUnA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C7-PFUnA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C7-PFUnA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C7-PFUnA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C7-PFUnA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C7-PFUnA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C7-PFUnA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C7-PFUnA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C7-PFUnA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C7-PFUnA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C7-PFUnA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C7-PFUnA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C7-PFUnA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C7-PFUnA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C7-PFUnA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C7-PFUnA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C7-PFUnA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C7-PFUnA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C7-PFUnA	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C7-PFUnA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C7-PFUnA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C7-PFUnA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C7-PFUnA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C7-PFUnA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C7-PFUnA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C7-PFUnA	Valley

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Analyte: PFDoA_1 **(**613.1 / 569.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFDoA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C2-PFDoA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-PFDoA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFDoA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFDoA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFDoA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFDoA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFDoA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFDoA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFDoA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFDoA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFDoA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFDoA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFDoA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDoA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFDoA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFDoA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFDoA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFDoA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFDoA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFDoA	Baseline

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Analyte: PFDoA_2 **(**613.1 / 319.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFDoA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFDoA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDoA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFDoA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFDoA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFDoA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFDoA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFDoA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFDoA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFDoA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFDoA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFDoA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFDoA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFDoA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDoA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFDoA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFDoA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFDoA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFDoA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFDoA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTrDA_1 **(**663.0 / 619.0**)**

Data File	AG_03222024_1633.wiff	**Result Table**	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFDoA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFDoA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDoA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFDoA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFDoA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFDoA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFDoA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFDoA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFDoA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFDoA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFDoA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFDoA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFDoA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFDoA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDoA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFDoA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFDoA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFDoA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFDoA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFDoA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTrDA_2 **(**663.0 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFDoA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDoA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDoA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDoA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDoA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDoA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFDoA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C2-PFDoA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDoA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFDoA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFDoA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFDoA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFDoA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFDoA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFDoA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFDoA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFDoA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFDoA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFDoA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFDoA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDoA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFDoA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFDoA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFDoA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFDoA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFDoA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFDoA	Baseline

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Analyte: PFTeDA_1 **(**713.0 / 669.0**)**

Data File	AG_03222024_1633.wiff	**Result Table**	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFTeDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFTeDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFTeDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFTeDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFTeDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFTeDA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFTeDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFTeDA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFTeDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFTeDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-PFTeDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFTeDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFTeDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFTeDA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFTeDA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFTeDA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFTeDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFTeDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFTeDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFTeDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFTeDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFTeDA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFTeDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C2-PFTeDA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFTeDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFTeDA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFTeDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFTeDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFTeDA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFTeDA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFTeDA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFTeDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFTeDA	Valley

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Analyte: PFTeDA_2 **(**713.0 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFTeDA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFTeDA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFTeDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFTeDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFTeDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFTeDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFTeDA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFTeDA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFTeDA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFTeDA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFTeDA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFTeDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFTeDA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFTeDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFTeDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-PFTeDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFTeDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFTeDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFTeDA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFTeDA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFTeDA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFTeDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFTeDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFTeDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFTeDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFTeDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFTeDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFTeDA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFTeDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFTeDA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFTeDA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFTeDA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C2-PFTeDA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFTeDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFTeDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFTeDA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFTeDA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFTeDA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFTeDA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFTeDA	Valley

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Analyte: PFBS_1 **(**298.7 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFBS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFBS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFBS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFBS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFBS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFBS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFBS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFBS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C3-PFBS	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFBS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFBS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C3-PFBS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C3-PFBS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFBS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFBS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFBS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C3-PFBS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C3-PFBS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C3-PFBS	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFBS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-PFBS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-PFBS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFBS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFBS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFBS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFBS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C3-PFBS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C3-PFBS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFBS	Valley

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Analyte: PFBS_2 **(**298.9 / 98.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFBS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFBS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFBS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFBS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFBS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFBS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFBS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFBS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFBS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-PFBS	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFBS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFBS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C3-PFBS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C3-PFBS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFBS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFBS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C3-PFBS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFBS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFBS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C3-PFBS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C3-PFBS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C3-PFBS	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFBS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-PFBS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-PFBS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFBS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFBS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFBS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFBS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C3-PFBS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C3-PFBS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C3-PFBS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-PFBS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFBS	Valley

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Analyte: PFPeS_1 **(**349.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFHxS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFHxS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFHxS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C3-PFHxS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C3-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFHxS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFHxS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C3-PFHxS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C3-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C3-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFHxS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C3-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-PFHxS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFHxS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C3-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C3-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: PFPeS_2 **(**349.1 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFHxS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFHxS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFHxS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C3-PFHxS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C3-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFHxS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFHxS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C3-PFHxS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C3-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C3-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFHxS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-PFHxS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFHxS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C3-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C3-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: PFHxS_1 **(**398.7 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFHxS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C3-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C3-PFHxS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFHxS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C3-PFHxS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C3-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C3-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C3-PFHxS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFHxS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C3-PFHxS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C3-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C3-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C3-PFHxS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C3-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-PFHxS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFHxS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C3-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C3-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C3-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

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Analyte: PFHxS_2 **(**398.7 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFHxS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-PFHxS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C3-PFHxS	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-PFHxS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-PFHxS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-PFHxS	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-PFHxS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-PFHxS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-PFHxS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C3-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C3-PFHxS	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-PFHxS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C3-PFHxS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C3-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C3-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C3-PFHxS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C3-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-PFHxS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C3-PFHxS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C3-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C3-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C3-PFHxS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C3-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-PFHxS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C3-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-PFHxS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C3-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C3-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C3-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C3-PFHxS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-PFHxS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: PFHpS_1 **(**449.0 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFHpS_2 **(**449.0 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFOS_1 **(**498.9 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Manual	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Manual	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Analyte: PFOS_2 **(**498.9 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Manual	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Analyte: PFNS_1 **(**548.8 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: PFNS_2 **(**548.8 / 98.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C8-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C8-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C8-PFOS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C8-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C8-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C8-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C8-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C8-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C8-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C8-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C8-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C8-PFOS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C8-PFOS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C8-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C8-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C8-PFOS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C8-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C8-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C8-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C8-PFOS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOS	Valley

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Analyte: PFDS_1 **(**599.0 / 79.9**)**

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Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

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MC65	L7	3/22/2024 10:28:33 PM	Valley	13C8-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C8-PFOS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C8-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C8-PFOS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
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MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C8-PFOS	Valley
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DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOS	Valley
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C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C8-PFOS	Baseline
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C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C8-PFOS	Valley
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Analyte: PFDS_2 **(**599.0 / 98.9**)**

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MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOS	N/A
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C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C8-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C8-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C8-PFOS	Valley
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Analyte: PFDoS_1 **(**699.1 / 79.9**)**

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Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDoA	Valley
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MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDoA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-PFDoA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDoA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDoA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDoA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-PFDoA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-PFDoA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-PFDoA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C2-PFDoA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-PFDoA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-PFDoA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-PFDoA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-PFDoA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-PFDoA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-PFDoA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-PFDoA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-PFDoA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-PFDoA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-PFDoA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-PFDoA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-PFDoA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFDoA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDoA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-PFDoA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-PFDoA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-PFDoA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-PFDoA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-PFDoA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-PFDoA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-PFDoA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDoA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-PFDoA	Baseline

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Manual Integration Report

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Analyte: 4:2FTS_1 **(**327.1 / 307.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-4:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-4:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-4:2FTS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-4:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-4:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-4:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-4:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-4:2FTS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-4:2FTS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-4:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-4:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-4:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-4:2FTS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-4:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-4:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-4:2FTS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-4:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-4:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-4:2FTS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-4:2FTS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-4:2FTS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-4:2FTS	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-4:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-4:2FTS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-4:2FTS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-4:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-4:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-4:2FTS	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-4:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-4:2FTS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-4:2FTS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-4:2FTS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-4:2FTS	Valley

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Manual Integration Report

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Analyte: 4:2FTS_2 **(**327.1 / 80.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-4:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-4:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-4:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-4:2FTS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-4:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-4:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-4:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-4:2FTS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-4:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-4:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-4:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-4:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-4:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-4:2FTS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-4:2FTS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-4:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-4:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-4:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-4:2FTS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-4:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-4:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-4:2FTS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-4:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-4:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-4:2FTS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-4:2FTS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-4:2FTS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-4:2FTS	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-4:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-4:2FTS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-4:2FTS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C2-4:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-4:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-4:2FTS	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C2-4:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-4:2FTS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-4:2FTS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-4:2FTS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-4:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-4:2FTS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 6:2FTS_1 **(**427.1 / 407.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-6:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-6:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-6:2FTS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-6:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-6:2FTS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-6:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-6:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-6:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-6:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-6:2FTS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-6:2FTS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-6:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-6:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-6:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C2-6:2FTS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-6:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-6:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-6:2FTS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C2-6:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-6:2FTS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-6:2FTS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-6:2FTS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-6:2FTS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-6:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-6:2FTS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-6:2FTS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-6:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-6:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-6:2FTS	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-6:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-6:2FTS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C2-6:2FTS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-6:2FTS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-6:2FTS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 6:2FTS_2 **(**427.1 / 80.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-6:2FTS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-6:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-6:2FTS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-6:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-6:2FTS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-6:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-6:2FTS	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-6:2FTS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-6:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-6:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-6:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-6:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-6:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-6:2FTS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-6:2FTS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-6:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C2-6:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-6:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C2-6:2FTS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C2-6:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-6:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C2-6:2FTS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C2-6:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-6:2FTS	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-6:2FTS	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-6:2FTS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C2-6:2FTS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-6:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-6:2FTS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-6:2FTS	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-6:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-6:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-6:2FTS	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C2-6:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-6:2FTS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C2-6:2FTS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-6:2FTS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-6:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-6:2FTS	Valley

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Analyte: 8:2FTS_1 **(**527.1 / 507.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-8:2FTS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-8:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-8:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-8:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-8:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-8:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-8:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-8:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-8:2FTS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-8:2FTS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-8:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-8:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-8:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-8:2FTS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-8:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-8:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-8:2FTS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-8:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-8:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-8:2FTS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-8:2FTS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-8:2FTS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-8:2FTS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-8:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-8:2FTS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-8:2FTS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-8:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-8:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-8:2FTS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C2-8:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-8:2FTS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-8:2FTS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-8:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 8:2FTS_2 **(**527.1 / 80.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-8:2FTS	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-8:2FTS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-8:2FTS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-8:2FTS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-8:2FTS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-8:2FTS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C2-8:2FTS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-8:2FTS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-8:2FTS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-8:2FTS	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C2-8:2FTS	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C2-8:2FTS	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C2-8:2FTS	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C2-8:2FTS	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-8:2FTS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-8:2FTS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C2-8:2FTS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C2-8:2FTS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C2-8:2FTS	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C2-8:2FTS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C2-8:2FTS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C2-8:2FTS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-8:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C2-8:2FTS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C2-8:2FTS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C2-8:2FTS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C2-8:2FTS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C2-8:2FTS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-8:2FTS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-8:2FTS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-8:2FTS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C2-8:2FTS	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-8:2FTS	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C2-8:2FTS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-8:2FTS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C2-8:2FTS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C2-8:2FTS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C2-8:2FTS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-8:2FTS	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C2-8:2FTS	Valley

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Manual Integration Report

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Analyte: PFOSA_1 **(**498.1 / 77.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOSA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C8-PFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C8-PFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C8-PFOSA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C8-PFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C8-PFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C8-PFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C8-PFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C8-PFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOSA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C8-PFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOSA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C8-PFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C8-PFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

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Analyte: PFOSA_2 (498.1 / 478.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C8-PFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C8-PFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C8-PFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C8-PFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C8-PFOSA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C8-PFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C8-PFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C8-PFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C8-PFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C8-PFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C8-PFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C8-PFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C8-PFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C8-PFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C8-PFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C8-PFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C8-PFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C8-PFOSA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C8-PFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C8-PFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C8-PFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C8-PFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C8-PFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C8-PFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C8-PFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C8-PFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C8-PFOSA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C8-PFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C8-PFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C8-PFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C8-PFOSA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C8-PFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C8-PFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C8-PFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C8-PFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C8-PFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C8-PFOSA	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: NMeFOSA_1 (511.9 / 219.0)

Data File	AG_03222024_1633.wiff	**Result Table**	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	D3-MeFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	D3-MeFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	D3-MeFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Manual	D3-MeFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D3-MeFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D3-MeFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D3-MeFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D3-MeFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D3-MeFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D3-MeFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D3-MeFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D3-MeFOSA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D3-MeFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D3-MeFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D3-MeFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D3-MeFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D3-MeFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D3-MeFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D3-MeFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D3-MeFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D3-MeFOSA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D3-MeFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D3-MeFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D3-MeFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D3-MeFOSA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D3-MeFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D3-MeFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D3-MeFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: NMeFOSA_2 (511.9 / 169.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D3-MeFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D3-MeFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D3-MeFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D3-MeFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D3-MeFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D3-MeFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D3-MeFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D3-MeFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D3-MeFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D3-MeFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D3-MeFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D3-MeFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D3-MeFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D3-MeFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D3-MeFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D3-MeFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D3-MeFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D3-MeFOSA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D3-MeFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D3-MeFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D3-MeFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D3-MeFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D3-MeFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D3-MeFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D3-MeFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D3-MeFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D3-MeFOSA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D3-MeFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D3-MeFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D3-MeFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D3-MeFOSA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D3-MeFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D3-MeFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D3-MeFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D3-MeFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D3-MeFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D3-MeFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: NEtFOSA_1 **(**526.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D5-EtFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Manual	D5-EtFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	D5-EtFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D5-EtFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D5-EtFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D5-EtFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D5-EtFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D5-EtFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D5-EtFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D5-EtFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D5-EtFOSA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D5-EtFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D5-EtFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D5-EtFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D5-EtFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D5-EtFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D5-EtFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D5-EtFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D5-EtFOSA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D5-EtFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D5-EtFOSA	Valley

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Printed: 26/03/2024 9:29:40 AM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D5-EtFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D5-EtFOSA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D5-EtFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D5-EtFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D5-EtFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: NEtFOSA_2 **(**526.0 / 169.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D5-EtFOSA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Manual	D5-EtFOSA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D5-EtFOSA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D5-EtFOSA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D5-EtFOSA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D5-EtFOSA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D5-EtFOSA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D5-EtFOSA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D5-EtFOSA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D5-EtFOSA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D5-EtFOSA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D5-EtFOSA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D5-EtFOSA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D5-EtFOSA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D5-EtFOSA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D5-EtFOSA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D5-EtFOSA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D5-EtFOSA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D5-EtFOSA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D5-EtFOSA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D5-EtFOSA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D5-EtFOSA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D5-EtFOSA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D5-EtFOSA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D5-EtFOSA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D5-EtFOSA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D5-EtFOSA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D5-EtFOSA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D5-EtFOSA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D5-EtFOSA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D5-EtFOSA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D5-EtFOSA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D5-EtFOSA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D5-EtFOSA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D5-EtFOSA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D5-EtFOSA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D5-EtFOSA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: NMeFOSAA_1 (570.1 / 419.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d3-MeFOSAA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d3-MeFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d3-MeFOSAA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d3-MeFOSAA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d3-MeFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d3-MeFOSAA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	d3-MeFOSAA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	d3-MeFOSAA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	d3-MeFOSAA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	d3-MeFOSAA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	d3-MeFOSAA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	d3-MeFOSAA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	d3-MeFOSAA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	d3-MeFOSAA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	d3-MeFOSAA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	d3-MeFOSAA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	d3-MeFOSAA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	d3-MeFOSAA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	d3-MeFOSAA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	d3-MeFOSAA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	d3-MeFOSAA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	d3-MeFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	d3-MeFOSAA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	d3-MeFOSAA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	d3-MeFOSAA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	d3-MeFOSAA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	d3-MeFOSAA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	d3-MeFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
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Analyte: NMeFOSAA_2 (570.1 / 483.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d3-MeFOSAA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d3-MeFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d3-MeFOSAA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d3-MeFOSAA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d3-MeFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d3-MeFOSAA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d3-MeFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d3-MeFOSAA	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d3-MeFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d3-MeFOSAA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d3-MeFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d3-MeFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d3-MeFOSAA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	d3-MeFOSAA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	d3-MeFOSAA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	d3-MeFOSAA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	d3-MeFOSAA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	d3-MeFOSAA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	d3-MeFOSAA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	d3-MeFOSAA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	d3-MeFOSAA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	d3-MeFOSAA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	d3-MeFOSAA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	d3-MeFOSAA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	d3-MeFOSAA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	d3-MeFOSAA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	d3-MeFOSAA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	d3-MeFOSAA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	d3-MeFOSAA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	d3-MeFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	d3-MeFOSAA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	d3-MeFOSAA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	d3-MeFOSAA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	d3-MeFOSAA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	d3-MeFOSAA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	d3-MeFOSAA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	d3-MeFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	d3-MeFOSAA	Valley

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Manual Integration Report

Analyte: NEtFOSAA_1 **(**584.2 / 419.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d5-EtFOSAA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d5-EtFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d5-EtFOSAA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d5-EtFOSAA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d5-EtFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d5-EtFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d5-EtFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d5-EtFOSAA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	d5-EtFOSAA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	d5-EtFOSAA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	d5-EtFOSAA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	d5-EtFOSAA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	d5-EtFOSAA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	d5-EtFOSAA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	d5-EtFOSAA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	d5-EtFOSAA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	d5-EtFOSAA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	d5-EtFOSAA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	d5-EtFOSAA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	d5-EtFOSAA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	d5-EtFOSAA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	d5-EtFOSAA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	d5-EtFOSAA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	d5-EtFOSAA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	d5-EtFOSAA	Valley

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Manual Integration Report

Created with Analyst Reporter
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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	d5-EtFOSAA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	d5-EtFOSAA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	d5-EtFOSAA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	d5-EtFOSAA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	d5-EtFOSAA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	d5-EtFOSAA	Valley

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Manual Integration Report

Analyte: NEtFOSAA_2 (584.2 / 526.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	d5-EtFOSAA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	d5-EtFOSAA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	d5-EtFOSAA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	d5-EtFOSAA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	d5-EtFOSAA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	d5-EtFOSAA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	d5-EtFOSAA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	d5-EtFOSAA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	d5-EtFOSAA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	d5-EtFOSAA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	d5-EtFOSAA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	d5-EtFOSAA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	d5-EtFOSAA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	d5-EtFOSAA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	d5-EtFOSAA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	d5-EtFOSAA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	d5-EtFOSAA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	d5-EtFOSAA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	d5-EtFOSAA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	d5-EtFOSAA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	d5-EtFOSAA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	d5-EtFOSAA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	d5-EtFOSAA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	d5-EtFOSAA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	d5-EtFOSAA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	d5-EtFOSAA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	d5-EtFOSAA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	d5-EtFOSAA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	d5-EtFOSAA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	d5-EtFOSAA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	d5-EtFOSAA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	d5-EtFOSAA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	d5-EtFOSAA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	d5-EtFOSAA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	d5-EtFOSAA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	d5-EtFOSAA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	d5-EtFOSAA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	d5-EtFOSAA	Valley

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Analyte: NMeFOSE **(**616.1 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D7-MeFOSE	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D7-MeFOSE	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D7-MeFOSE	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D7-MeFOSE	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D7-MeFOSE	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D7-MeFOSE	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D7-MeFOSE	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D7-MeFOSE	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D7-MeFOSE	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D7-MeFOSE	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D7-MeFOSE	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D7-MeFOSE	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D7-MeFOSE	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D7-MeFOSE	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D7-MeFOSE	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D7-MeFOSE	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D7-MeFOSE	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D7-MeFOSE	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D7-MeFOSE	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D7-MeFOSE	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D7-MeFOSE	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D7-MeFOSE	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D7-MeFOSE	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D7-MeFOSE	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D7-MeFOSE	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D7-MeFOSE	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D7-MeFOSE	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D7-MeFOSE	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D7-MeFOSE	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D7-MeFOSE	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D7-MeFOSE	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D7-MeFOSE	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D7-MeFOSE	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D7-MeFOSE	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D7-MeFOSE	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D7-MeFOSE	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D7-MeFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D7-MeFOSE	Valley

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Analyte: NEtFOSE **(**630.0 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	D9-EtFOSE	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	D9-EtFOSE	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	D9-EtFOSE	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	D9-EtFOSE	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	D9-EtFOSE	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	D9-EtFOSE	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	D9-EtFOSE	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	D9-EtFOSE	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	D9-EtFOSE	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	D9-EtFOSE	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	D9-EtFOSE	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	D9-EtFOSE	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	D9-EtFOSE	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	D9-EtFOSE	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	D9-EtFOSE	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	D9-EtFOSE	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	D9-EtFOSE	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	D9-EtFOSE	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	D9-EtFOSE	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	D9-EtFOSE	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	D9-EtFOSE	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	D9-EtFOSE	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	D9-EtFOSE	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	D9-EtFOSE	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	D9-EtFOSE	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	D9-EtFOSE	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	D9-EtFOSE	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	D9-EtFOSE	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	D9-EtFOSE	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	D9-EtFOSE	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	D9-EtFOSE	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	D9-EtFOSE	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	D9-EtFOSE	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	D9-EtFOSE	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	D9-EtFOSE	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	D9-EtFOSE	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	D9-EtFOSE	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	D9-EtFOSE	Valley

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Analyte: HFPO-DA_1 **(**284.9 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: HFPO-DA_2 **(**284.9 / 184.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: ADONA_1 **(**376.9 / 250.9**)**

Data File	AG_03222024_1633.wiff	**Result Table**	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: ADONA_2 **(**376.9 / 84.8**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: 9Cl-PF3ONS_1 **(**530.8 / 351.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Analyte: 9Cl-PF3ONS_2 **(**532.8 / 353.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: 11Cl-PF3OUdS_1 **(**630.9 / 450.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Analyte: 11Cl-PF3OUdS_2 **(**632.9 / 452.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-HFPO-DA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-HFPO-DA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-HFPO-DA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-HFPO-DA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-HFPO-DA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-HFPO-DA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C3-HFPO-DA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-HFPO-DA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-HFPO-DA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-HFPO-DA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C3-HFPO-DA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C3-HFPO-DA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C3-HFPO-DA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C3-HFPO-DA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-HFPO-DA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-HFPO-DA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C3-HFPO-DA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C3-HFPO-DA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C3-HFPO-DA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C3-HFPO-DA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C3-HFPO-DA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C3-HFPO-DA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C3-HFPO-DA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C3-HFPO-DA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C3-HFPO-DA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C3-HFPO-DA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C3-HFPO-DA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-HFPO-DA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-HFPO-DA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C3-HFPO-DA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C3-HFPO-DA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C3-HFPO-DA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C3-HFPO-DA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C3-HFPO-DA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C3-HFPO-DA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C3-HFPO-DA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C3-HFPO-DA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C3-HFPO-DA	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 3:3 FTCA_1 **(**241.0 / 177.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFPeA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFPeA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFPeA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFPeA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFPeA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFPeA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFPeA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFPeA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFPeA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFPeA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFPeA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFPeA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFPeA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFPeA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFPeA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFPeA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFPeA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFPeA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFPeA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFPeA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFPeA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFPeA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFPeA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: 3:3 FTCA_2 **(**241.0 / 117.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFPeA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFPeA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFPeA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFPeA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFPeA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFPeA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFPeA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFPeA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFPeA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFPeA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFPeA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFPeA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFPeA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFPeA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C5-PFPeA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFPeA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFPeA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFPeA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFPeA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFPeA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFPeA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFPeA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C5-PFPeA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 5:3 FTCA_1 **(**341.0 / 237.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: 5:3 FTCA_2 **(**341.0 / 217.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Printed: 26/03/2024 9:29:40 AM

Analyte: 7:3 FTCA_1 **(**441.0 / 316.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:29:40 AM

Analyte: 7:3 FTCA_2 **(**441.0 / 336.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Analyte: NFDHA_1 **(**295.0 / 201.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Analyte: NFDHA_2 **(**295.0 / 84.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Analyte: PFEESA_1 **(**314.8 / 134.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFHxA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFHxA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C5-PFHxA	Valley
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C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

Analyte: PFEESA_2 **(**314.8 / 82.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C5-PFHxA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C5-PFHxA	Valley
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MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFHxA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFHxA	Valley
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MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFHxA	Baseline
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFHxA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFHxA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFHxA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFHxA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFHxA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFHxA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFHxA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFHxA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFHxA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFHxA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFHxA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C5-PFHxA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFHxA	Baseline

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MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFHxA	Baseline
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFHxA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFHxA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFHxA	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFHxA	Baseline

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Manual Integration Report

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Analyte: PFMPA (229.0 / 84.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFPeA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFPeA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFPeA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFPeA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFPeA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFPeA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFPeA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFPeA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFPeA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFPeA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFPeA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFPeA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFPeA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFPeA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFPeA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFPeA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFPeA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFPeA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFPeA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFPeA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFPeA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFPeA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFPeA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

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Analyte: PFMBA (279.0 / 85.1)

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFPeA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFPeA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C5-PFPeA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C5-PFPeA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C5-PFPeA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFPeA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	13C5-PFPeA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C5-PFPeA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFPeA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C5-PFPeA	Valley
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	N/A	13C5-PFPeA	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	13C5-PFPeA	Baseline
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	13C5-PFPeA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	13C5-PFPeA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C5-PFPeA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C5-PFPeA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	13C5-PFPeA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	13C5-PFPeA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	13C5-PFPeA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	13C5-PFPeA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	13C5-PFPeA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	13C5-PFPeA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	13C5-PFPeA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	13C5-PFPeA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	13C5-PFPeA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	13C5-PFPeA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	13C5-PFPeA	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFPeA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFPeA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	13C5-PFPeA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	N/A	13C5-PFPeA	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFPeA	Valley
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	13C5-PFPeA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	13C5-PFPeA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	13C5-PFPeA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	13C5-PFPeA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	13C5-PFPeA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFPeA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	13C5-PFPeA	Valley

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Manual Integration Report

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Analyte: TDCA **(**499.0 / 107.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	N/A	N/A	N/A
MC60	L2	3/22/2024 8:34:31 PM	N/A	N/A	N/A
MC61	L3	3/22/2024 8:57:20 PM	N/A	N/A	N/A
MC62	L4	3/22/2024 9:20:11 PM	N/A	N/A	N/A
MC63	L5	3/22/2024 9:42:58 PM	N/A	N/A	N/A
MC64	L6	3/22/2024 10:05:45 PM	N/A	N/A	N/A
MC65	L7	3/22/2024 10:28:33 PM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	N/A	N/A	N/A
MC43 ICC	ICC	3/22/2024 11:14:10 PM	N/A	N/A	N/A
MC59 ISC	ISC	3/22/2024 11:36:56 PM	N/A	N/A	N/A
MC62 CV	CV	3/22/2024 11:59:43 PM	N/A	N/A	N/A
MC72 TDCA	TDCA	3/23/2024 12:22:30 AM	Valley	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	N/A	N/A	N/A
MC63 CV	CV	3/23/2024 9:07:09 AM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	N/A	N/A	N/A
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	N/A	N/A	N/A
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	N/A	N/A	N/A
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	N/A	N/A	N/A
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	N/A	N/A	N/A
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	N/A	N/A	N/A
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	N/A	N/A	N/A
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	N/A	N/A	N/A
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	N/A	N/A	N/A
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	N/A	N/A	N/A
MC62 CV	CV	3/23/2024 1:40:38 PM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	N/A	N/A	N/A
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	N/A	N/A	N/A
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	N/A	N/A	N/A
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	N/A	N/A	N/A
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	N/A	N/A	N/A
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	N/A	N/A	N/A
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	N/A	N/A	N/A
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	N/A	N/A	N/A

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC72 TDCA	TDCA	3/23/2024 5:28:49 PM	Valley	N/A	N/A
MC59 CV	CV	3/23/2024 5:51:39 PM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	N/A	N/A	N/A
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	N/A	N/A	N/A
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	N/A	N/A	N/A
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	N/A	N/A	N/A
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	N/A	N/A	N/A
MC63 CV	CV	3/23/2024 8:31:12 PM	N/A	N/A	N/A
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	N/A	N/A	N/A

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C4-PFBA **(**216.8 / 171.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C3-PFBA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C3-PFBA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C3-PFBA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFBA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C3-PFBA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFBA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C3-PFBA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C3-PFBA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C3-PFBA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-PFBA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFBA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C3-PFBA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C3-PFBA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C3-PFBA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFBA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFBA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C3-PFBA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFBA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C3-PFBA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C3-PFBA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C3-PFBA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C3-PFBA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFBA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C3-PFBA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C3-PFBA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFBA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C3-PFBA	Valley

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Printed: 26/03/2024 9:30:53 AM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	13C3-PFBA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFBA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C3-PFBA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C3-PFBA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Baseline	13C3-PFBA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C5-PFPeA (268.3 / 223.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Baseline	13C2-PFHxA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFHxA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C2-PFHxA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-PFHxA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-PFHxA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFHxA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C2-PFHxA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C2-PFHxA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C2-PFHxA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFHxA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFHxA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C2-PFHxA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFHxA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFHxA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFHxA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFHxA	Baseline

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Analyte: 13C5-PFHxA **(**318.0 / 273.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFHxA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFHxA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C2-PFHxA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C2-PFHxA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-PFHxA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFHxA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C2-PFHxA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C2-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C2-PFHxA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C2-PFHxA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFHxA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C2-PFHxA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C2-PFHxA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	13C2-PFHxA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C2-PFHxA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C2-PFHxA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Baseline	13C2-PFHxA	Baseline

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Manual Integration Report

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Analyte: 13C4-PFHpA (367.1 / 322.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFHxA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFHxA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Baseline	13C2-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C2-PFHxA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C2-PFHxA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-PFHxA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C2-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFHxA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C2-PFHxA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C2-PFHxA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C2-PFHxA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFHxA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFHxA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-PFHxA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFHxA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFHxA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFHxA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFHxA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFHxA	Baseline

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Analyte: 13C8-PFOA **(**421.1 / 376.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOA	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOA	Baseline
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOA	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOA	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C4-PFOA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C4-PFOA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Baseline	13C4-PFOA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C4-PFOA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C4-PFOA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C4-PFOA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C4-PFOA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C4-PFOA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOA	Baseline
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOA	Valley

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Analyte: 13C9-PFNA **(**472.1 / 427.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C5-PFNA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C5-PFNA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C5-PFNA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C5-PFNA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C5-PFNA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C5-PFNA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C5-PFNA	Baseline
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C5-PFNA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C5-PFNA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C5-PFNA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C5-PFNA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C5-PFNA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C5-PFNA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C5-PFNA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	13C5-PFNA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C5-PFNA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C5-PFNA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C5-PFNA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C5-PFNA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C5-PFNA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C5-PFNA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C5-PFNA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C5-PFNA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C5-PFNA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C5-PFNA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C5-PFNA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C5-PFNA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C5-PFNA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C5-PFNA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C5-PFNA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	13C5-PFNA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C5-PFNA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C5-PFNA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C5-PFNA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C5-PFNA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C5-PFNA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Baseline	13C5-PFNA	Valley

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Analyte: 13C6-PFDA **(**519.1 / 474.1**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFDA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C2-PFDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-PFDA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFDA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C2-PFDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C2-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-PFDA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C2-PFDA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C2-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFDA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFDA	Baseline

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Analyte: 13C7-PFUnA (570.0 / 525.1)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	13C2-PFDA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Baseline	13C2-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C2-PFDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C2-PFDA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFDA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C2-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C2-PFDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C2-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Baseline	13C2-PFDA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C2-PFDA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFDA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFDA	Baseline

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Analyte: 13C2-PFDoA (615.1 / 570.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	13C2-PFDA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C2-PFDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C2-PFDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-PFDA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFDA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C2-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C2-PFDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C2-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C2-PFDA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-PFDA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFDA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Baseline	13C2-PFDA	Baseline

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Analyte: 13C2-PFTeDA (715.2 / 670.0)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFDA	Baseline
MC60	L2	3/22/2024 8:34:31 PM	Baseline	13C2-PFDA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFDA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C2-PFDA	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFDA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFDA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C2-PFDA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	13C2-PFDA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFDA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFDA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFDA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C2-PFDA	Baseline
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFDA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFDA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C2-PFDA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C2-PFDA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-PFDA	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C2-PFDA	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C2-PFDA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Baseline	13C2-PFDA	Baseline
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C2-PFDA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFDA	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-PFDA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C2-PFDA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C2-PFDA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFDA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-PFDA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFDA	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFDA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C2-PFDA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFDA	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C2-PFDA	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C2-PFDA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C2-PFDA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFDA	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C3-PFBS **(**302.1 / 79.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	18O2-PFHxS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	18O2-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	18O2-PFHxS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	18O2-PFHxS	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	18O2-PFHxS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	18O2-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	18O2-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	18O2-PFHxS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	18O2-PFHxS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	18O2-PFHxS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	18O2-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	18O2-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	18O2-PFHxS	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	18O2-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	18O2-PFHxS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	18O2-PFHxS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	18O2-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	18O2-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	18O2-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	18O2-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	18O2-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

Analyte: 13C3-PFHxS (402.1 / 79.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Baseline	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Baseline	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Baseline	18O2-PFHxS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	18O2-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Baseline	18O2-PFHxS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	18O2-PFHxS	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	18O2-PFHxS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	18O2-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	18O2-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	18O2-PFHxS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Baseline	18O2-PFHxS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	18O2-PFHxS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	18O2-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	18O2-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	18O2-PFHxS	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	18O2-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	18O2-PFHxS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	18O2-PFHxS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	18O2-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	18O2-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	18O2-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	18O2-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	18O2-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C8-PFOS (507.1 / 79.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:30:53 AM

Analyte: 13C2-4:2FTS (329.1 / 80.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C3-PFBA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C3-PFBA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C3-PFBA	Valley
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C3-PFBA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C3-PFBA	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C3-PFBA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C3-PFBA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C3-PFBA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C3-PFBA	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	13C3-PFBA	Valley
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C3-PFBA	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C3-PFBA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C3-PFBA	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C3-PFBA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Baseline	13C3-PFBA	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C3-PFBA	Baseline
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C3-PFBA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C3-PFBA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C3-PFBA	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C3-PFBA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C3-PFBA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	13C3-PFBA	Baseline
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Baseline	13C3-PFBA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Baseline	13C3-PFBA	Baseline
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C3-PFBA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C3-PFBA	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C3-PFBA	Baseline
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C3-PFBA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Baseline	13C3-PFBA	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	13C3-PFBA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C3-PFBA	Baseline
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C3-PFBA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C3-PFBA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C3-PFBA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	13C3-PFBA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C3-PFBA	Valley

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Manual Integration Report

Analyte: 13C2-6:2FTS **(**429.1 / 80.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Baseline	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Baseline	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Baseline	18O2-PFHxS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	18O2-PFHxS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	18O2-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	18O2-PFHxS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	18O2-PFHxS	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	18O2-PFHxS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	18O2-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	18O2-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	18O2-PFHxS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Baseline	18O2-PFHxS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Baseline	18O2-PFHxS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	18O2-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	18O2-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	18O2-PFHxS	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	18O2-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	18O2-PFHxS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	18O2-PFHxS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	18O2-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	18O2-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	18O2-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	18O2-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	18O2-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

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Printed: 26/03/2024 9:30:53 AM

Analyte: 13C2-8:2FTS (529.1 / 80.9)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	18O2-PFHxS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	18O2-PFHxS	Baseline
MC61	L3	3/22/2024 8:57:20 PM	Valley	18O2-PFHxS	Valley
MC62	L4	3/22/2024 9:20:11 PM	Valley	18O2-PFHxS	Baseline
MC63	L5	3/22/2024 9:42:58 PM	Valley	18O2-PFHxS	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	18O2-PFHxS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	18O2-PFHxS	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Baseline	18O2-PFHxS	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	18O2-PFHxS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Baseline	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	18O2-PFHxS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Baseline	18O2-PFHxS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	18O2-PFHxS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	18O2-PFHxS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	18O2-PFHxS	Baseline
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	18O2-PFHxS	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	18O2-PFHxS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	18O2-PFHxS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	18O2-PFHxS	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	18O2-PFHxS	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Baseline	18O2-PFHxS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	18O2-PFHxS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	18O2-PFHxS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	18O2-PFHxS	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	18O2-PFHxS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	18O2-PFHxS	Baseline
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	18O2-PFHxS	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	18O2-PFHxS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	18O2-PFHxS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	18O2-PFHxS	Valley

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	18O2-PFHxS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	18O2-PFHxS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	18O2-PFHxS	Baseline
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	18O2-PFHxS	Baseline
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	18O2-PFHxS	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Baseline	18O2-PFHxS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	18O2-PFHxS	Baseline

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C8-PFOSA (506.1 / 77.8)

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Baseline	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Baseline	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:30:53 AM

Analyte: D3-MeFOSA **(**515.0 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Baseline	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Analyte: D5-EtFOSA **(**531.1 / 219.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: d3-MeFOSAA (573.2 / 419.0)

Data File	AG_03222024_1633.wiff	**Result Table**	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Instrument Name**	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Baseline	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Baseline	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Baseline	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Baseline	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Baseline	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:30:53 AM

Analyte: d5-EtFOSAA **(**589.2 / 419.0**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Baseline	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Baseline	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Baseline	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Baseline	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Baseline	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Baseline	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: D7-MeFOSE **(**623.2 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

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Printed: 26/03/2024 9:30:53 AM

Analyte: D9-EtFOSE **(**639.2 / 58.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C4-PFOS	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C4-PFOS	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C4-PFOS	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C4-PFOS	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C4-PFOS	Valley
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C4-PFOS	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C4-PFOS	Baseline
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C4-PFOS	Baseline
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C4-PFOS	Valley
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C4-PFOS	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C4-PFOS	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C4-PFOS	Valley
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C4-PFOS	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C4-PFOS	Valley
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C4-PFOS	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C4-PFOS	Baseline
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C4-PFOS	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Valley	13C4-PFOS	Valley
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Valley	13C4-PFOS	Baseline
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Valley	13C4-PFOS	Baseline
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C4-PFOS	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C4-PFOS	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C4-PFOS	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C4-PFOS	Valley
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C4-PFOS	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C4-PFOS	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Valley	13C4-PFOS	Baseline
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C4-PFOS	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C4-PFOS	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C4-PFOS	Baseline

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Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C4-PFOS	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Valley	13C4-PFOS	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C4-PFOS	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Valley	13C4-PFOS	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Valley	13C4-PFOS	Baseline
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C4-PFOS	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C4-PFOS	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Analyte: 13C3-HFPO-DA **(**286.9 / 168.9**)**

Data File	AG_03222024_1633.wiff	Result Table	24-0213_SIS
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	Instrument Name	SCIEX Triple Quad 6500+

Samples:

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MC59	L1	3/22/2024 8:11:43 PM	Valley	13C2-PFHxA	Valley
MC60	L2	3/22/2024 8:34:31 PM	Valley	13C2-PFHxA	Valley
MC61	L3	3/22/2024 8:57:20 PM	Valley	13C2-PFHxA	Baseline
MC62	L4	3/22/2024 9:20:11 PM	Valley	13C2-PFHxA	Valley
MC63	L5	3/22/2024 9:42:58 PM	Valley	13C2-PFHxA	Baseline
MC64	L6	3/22/2024 10:05:45 PM	Valley	13C2-PFHxA	Valley
MC65	L7	3/22/2024 10:28:33 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/22/2024 10:51:21 PM	Valley	13C2-PFHxA	Valley
MC43 ICC	ICC	3/22/2024 11:14:10 PM	Valley	13C2-PFHxA	Valley
MC59 ISC	ISC	3/22/2024 11:36:56 PM	Valley	13C2-PFHxA	Baseline
MC62 CV	CV	3/22/2024 11:59:43 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 12:45:18 AM	Valley	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 9:07:09 AM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 9:29:55 AM	Valley	13C2-PFHxA	Baseline
DQ777PB-FS(0)	Procedural Blank	3/23/2024 9:52:43 AM	Valley	13C2-PFHxA	Baseline
DQ778LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:15:34 AM	Valley	13C2-PFHxA	Valley
DQ779LCS-FS(0)	Laboratory Control Sample	3/23/2024 10:38:21 AM	Valley	13C2-PFHxA	Baseline
C2701-FS(0)	WGNA-FB-20240320	3/23/2024 11:01:10 AM	Valley	13C2-PFHxA	Valley
C2702-FS(0)	WGNA-SW-19-20240320	3/23/2024 11:23:58 AM	Valley	13C2-PFHxA	Valley
C2703-FS(0)	WGNA-SW-17-20240320	3/23/2024 11:46:46 AM	Valley	13C2-PFHxA	Valley
C2704-FS(0)	WGNA-SW-28-20240320	3/23/2024 12:09:32 PM	Baseline	13C2-PFHxA	Baseline
C2705-FS(0)	WGNA-SW-14-20240320	3/23/2024 12:32:18 PM	Baseline	13C2-PFHxA	Valley
C2706-FS(0)	WGNA-SW-63-20240320	3/23/2024 12:55:08 PM	Baseline	13C2-PFHxA	Valley
MC62 CV	CV	3/23/2024 1:40:38 PM	Valley	13C2-PFHxA	Baseline
MB88 IB	Instrument Blank	3/23/2024 2:03:28 PM	Valley	13C2-PFHxA	Valley
C2707-FS(0)	WGNA-SW-10-20240320	3/23/2024 2:26:18 PM	Valley	13C2-PFHxA	Valley
C2708-FS(0)	WGNA-SW-05-20240320	3/23/2024 2:49:07 PM	Valley	13C2-PFHxA	Baseline
C2709-FS(0)	WGNA-SW-04-20240320	3/23/2024 3:11:54 PM	Valley	13C2-PFHxA	Valley
C2710-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:34:43 PM	Valley	13C2-PFHxA	Valley
C2710MS-FS(0)	WGNA-SW-64-20240320	3/23/2024 3:57:34 PM	Baseline	13C2-PFHxA	Valley
C2710MSD-FS(0)	WGNA-SW-64-20240320	3/23/2024 4:20:22 PM	Valley	13C2-PFHxA	Valley
C2711-FS(0)	WGNA-SW-03-20240320	3/23/2024 4:43:12 PM	Valley	13C2-PFHxA	Valley
MC59 CV	CV	3/23/2024 5:51:39 PM	Valley	13C2-PFHxA	Valley

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Manual Integration Report

Created with Analyst Reporter
Printed: 26/03/2024 9:30:53 AM

Sample Name	Sample ID	Acquisition Date	Integration Type	Internal Standard	Integration Type
MB88 IB	Instrument Blank	3/23/2024 6:14:26 PM	Valley	13C2-PFHxA	Valley
C2712-FS(0)	WGNA-SW-01-20240320	3/23/2024 6:37:14 PM	Baseline	13C2-PFHxA	Valley
C2713-FS(0)	WGNA-SW-52-20240320	3/23/2024 7:00:02 PM	Valley	13C2-PFHxA	Valley
C2714-FS(0)	WGNA-SW-DUP-03-20240320	3/23/2024 7:22:48 PM	Baseline	13C2-PFHxA	Valley
C2715-FS(0)	WGNA-SW-DUP-04-20240320	3/23/2024 7:45:36 PM	Baseline	13C2-PFHxA	Valley
MC63 CV	CV	3/23/2024 8:31:12 PM	Valley	13C2-PFHxA	Valley
MB88 IB	Instrument Blank	3/23/2024 8:53:58 PM	Valley	13C2-PFHxA	Baseline

Example Calculation for PFAS

Calculation of final concentration from area:

$$Concentration = \left[\frac{AreaN * MEIS}{AreaEIS * (RR\ or\ RF)}\right] * DF/S$$

Where:

AreaN = Area of target
AreaEIS = area of Extracted Internal Standard
MEIS = concentration of Extracted Internal Standard (ng)
RR or RF = Response Factor or Response Ratio
DF = dilution factor
S = Sample Size

Sample ID:	DQ778LCS-FS(0)
Client Sample ID:	Laboratory Control Sample
Sample Size:	0.474
Units:	L
Dilution Factor:	1.000
Target Analyte:	PFBA
MRM Transition:	212.8 / 168.9
Data file:	AG_03222024_1633.wiff
Result table:	24-0213
Area:	725,641.95
IS Name:	13C4-PFBA
IS Area:	691,086.54
IS Amount (ng):	40
RR or RF	1.11796

Concentration = (725641.95 * 40) / (691086.54 * 1.11796) * 1 / 0.474

ng/L = 79.3

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238

		DQ777PB-FS (Procedural Blank)	DQ778LCS-FS (Laboratory Control Sample)	DQ779LCS-FS (Laboratory Control Sample)	C710MS-FS (WGNA-SW-64-20240320)	C710MSD-FS (WGNA-SW-64-20240320)	C701-FS (WGNA-FB-20240320)	C702-FS (WGNA-SW-19-20240320)	C703-FS (WGNA-SW-17-20240320)	C704-FS (WGNA-SW-28-20240320)	C705-FS (WGNA-SW-14-20240320)	C706-FS (WGNA-SW-63-20240320)	C707-FS (WGNA-SW-10-20240320)	C708-FS (WGNA-SW-05-20240320)	C709-FS (WGNA-SW-04-20240320)	C710-FS (WGNA-SW-64-20240320)	C711-FS (WGNA-SW-03-20240320)	C712-FS (WGNA-SW-01-20240320)	C713-FS (WGNA-SW-52-20240320)	C714-FS (WGNA-SW-DUP-03-20240320)	C715-FS (WGNA-SW-DUP-04-20240320)
PFBA	375-22-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFPeA	2706-90-3	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFHxA	307-24-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFHpA	375-85-9	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFOA	335-67-1	-	L	L	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNA	375-95-1	-	L	L	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFDA	335-76-2	-	L	L	L	L	-	-	-	-	-	-	L	L	L	-	L	L	-	-	-
PFUnA	2058-94-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFDoA	307-55-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFTrDA	72629-94-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFTeDA	376-06-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFBS	375-73-5	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFPeS	2706-91-4	-	L	L	L	L	-	L	L	L	L	L	L	L	L	L	L	L	L	L	L
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFHpS	375-92-8	-	L	L	L	L	-	L	L	L	L	L	-	L	L	L	L	L	L	L	L
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	L/Br	-	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br
PFNS	68259-12-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFDS	335-77-3	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFDoS	79780-39-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:2FTS	757124-72-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6:2FTS	27619-97-2	-	L	L	L	L	-	L	L	L	L	-	-	L	L	-	L	L	-	L	-
8:2FTS	39108-34-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	L	L	-	-	-
PFOSA	754-91-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	L/Br	-	-	-
NMeFOSA	31506-32-8	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSA	4151-50-2	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSAA	2355-31-9	-	L/Br	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSAA	2991-50-6	-	L/Br	L/Br	L/Br	L/Br	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NMeFOSE	24448-09-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEtFOSE	1691-99-2	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HFPO-DA	13252-13-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adona	919005-14-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFMPA	377-73-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFMBA	863090-89-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NFDHA	151772-58-6	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9Cl-PF3ONS	756426-58-1	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11Cl-PF3OUdS	763051-92-9	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFEESA	113507-82-7	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3:3 FTCA	356-02-5	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5:3 FTCA	914637-49-3	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7:3 FTCA	812-70-4	-	L	L	L	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

"L" :Linear
"Br": branched
"L/Br": Linear/Branched
"-": Not detected

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Internal Standard Area Report - Instrument QC Samples NIS Recoveries (%)

Sample Name	Sample ID	Date & Time	13C3-PFBA	13C2-PFHxA	13C4-PFOA	13C5-PFNA	13C2-PFDA	18O2-PFHxS	13C4-PFOS
MC59	L1	3/22/24 20:11	107	103	103	111	103	98	100
MC60	L2	3/22/24 20:34	105	104	101	98	98	98	95
MC61	L3	3/22/24 20:57	98	94	94	91	93	103	94
MC62	L4	3/22/24 21:20	104	103	100	101	107	114	97
MC63	L5	3/22/24 21:42	108	107	105	109	104	102	104
MC64	L6	3/22/24 22:05	95	90	96	98	90	94	97
MC65	L7	3/22/24 22:28	84	100	101	92	106	92	113
MC43 ICC	ICC	3/22/24 23:14	92	91	85	91	79	92	83
MC59 ISC	ISC	3/22/24 23:36	96	91	92	93	91	95	86
MC62 CV	CV	3/22/24 23:59	97	86	92	86	89	95	87
MC63 CV	CV	3/23/24 9:07	98	96	97	101	100	94	98
MC62 CV	CV	3/23/24 13:40	106	102	104	97	107	99	100
MC59 CV	CV	3/23/24 17:51	95	96	95	87	92	93	80
MC63 CV	CV	3/23/24 20:31	101	95	98	96	95	89	94

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			Procedural Blank
Standard ID		MC62			DQ777PB-FS
Analysis Date		03/22/2024			-
Analysis Time		21:20			-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	-
PFPeA	2706-90-3	4.45	4.05	4.85	-
PFHxA	307-24-4	5.54	5.14	5.94	-
PFHpA	375-85-9	6.28	5.88	6.68	-
PFOA	335-67-1	6.82	6.42	7.22	-
PFNA	375-95-1	7.27	6.87	7.67	-
PFDA	335-76-2	7.68	7.28	8.08	-
PFUnA	2058-94-8	8.06	7.66	8.46	-
PFDoA	307-55-1	8.43	8.03	8.83	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-
PFTeDA	376-06-7	9.11	8.71	9.51	-
PFBS	375-73-5	5.42	5.02	5.82	-
PFPeS	2706-91-4	6.28	5.88	6.68	-
PFHxS	355-46-4	6.87	6.47	7.27	-
PFHpS	375-92-8	7.36	6.96	7.76	-
PFOS	1763-23-1	7.79	7.39	8.19	-
PFNS	68259-12-1	8.18	7.78	8.58	-
PFDS	335-77-3	8.55	8.15	8.95	-
PFDoS	79780-39-5	9.24	8.84	9.64	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-
6:2FTS	27619-97-2	6.64	6.24	7.04	-
8:2FTS	39108-34-4	7.52	7.12	7.92	-
PFOSA	754-91-6	8.15	7.75	8.55	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-
Adona	919005-14-4	6.48	6.08	6.88	-
PFMPA	377-73-1	3.22	2.82	3.62	-
PFMBA	863090-89-5	4.84	4.44	5.24	-
NFDHA	151772-58-6	5.43	5.03	5.83	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-
PFEESA	113507-82-7	5.83	5.43	6.23	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			Procedural Blank
Standard ID	MC62			DQ777PB-FS
Analysis Date	03/22/2024			-
Analysis Time	21:20			-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96
13C5-PFPeA	4.44	4.04	4.84	4.43
13C5-PFHxA	5.53	5.13	5.93	5.50
13C4-PFHpA	6.27	5.87	6.67	6.23
13C8-PFOA	6.80	6.40	7.20	6.76
13C9-PFNA	7.26	6.86	7.66	7.21
13C6-PFDA	7.67	7.27	8.07	7.61
13C7-PFUnA	8.05	7.65	8.45	7.99
13C2-PFDoA	8.41	8.01	8.81	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.06
13C3-PFBS	5.41	5.01	5.81	5.39
13C3-PFHxS	6.87	6.47	7.27	6.82
13C8-PFOS	7.78	7.38	8.18	7.72
13C2-4:2FTS	5.31	4.91	5.71	5.29
13C2-6:2FTS	6.63	6.23	7.03	6.59
13C2-8:2FTS	7.51	7.11	7.91	7.45
13C8-PFOSA	8.15	7.75	8.55	8.06
d3-MeFOSA	10.16	9.76	10.56	10.12
d5-EtFOSA	10.49	10.09	10.89	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.64
d5-EtFOSAA	7.85	7.45	8.25	7.79
d7-MeFOSE	10.11	9.71	10.51	10.06
d9-EtFOSE	10.40	10.00	10.80	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.77

NIS	**RT**	Lower	Upper	**RT**
13C3-PFBA	1.96	1.56	2.36	1.96
13C2-PFHxA	5.53	5.13	5.93	5.51
13C4-PFOA	6.81	6.41	7.21	6.76
13C5-PFNA	7.26	6.86	7.66	7.21
13C2-PFDA	7.67	7.27	8.07	7.61
18O2-PFHxS	6.87	6.47	7.27	6.82
13C4-PFOS	7.78	7.38	8.18	7.72

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It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			Laboratory Control Sample	Laboratory Control Sample
Standard ID		MC62			DQ778LCS-FS	DQ779LCS-FS
Analysis Date		03/22/2024			-	-
Analysis Time		21:20			-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.96	1.96
PFPeA	2706-90-3	4.45	4.05	4.85	4.44	4.45
PFHxA	307-24-4	5.54	5.14	5.94	5.53	5.54
PFHpA	375-85-9	6.28	5.88	6.68	6.25	6.27
PFOA	335-67-1	6.82	6.42	7.22	6.78	6.79
PFNA	375-95-1	7.27	6.87	7.67	7.23	7.24
PFDA	335-76-2	7.68	7.28	8.08	7.63	7.65
PFUnA	2058-94-8	8.06	7.66	8.46	8.01	8.03
PFDoA	307-55-1	8.43	8.03	8.83	8.38	8.40
PFTrDA	72629-94-8	8.77	8.37	9.17	8.73	8.75
PFTeDA	376-06-7	9.11	8.71	9.51	9.06	9.08
PFBS	375-73-5	5.42	5.02	5.82	5.41	5.42
PFPeS	2706-91-4	6.28	5.88	6.68	6.26	6.27
PFHxS	355-46-4	6.87	6.47	7.27	6.85	6.85
PFHpS	375-92-8	7.36	6.96	7.76	7.32	7.33
PFOS	1763-23-1	7.79	7.39	8.19	7.74	7.76
PFNS	68259-12-1	8.18	7.78	8.58	8.13	8.16
PFDS	335-77-3	8.55	8.15	8.95	8.50	8.53
PFDoS	79780-39-5	9.24	8.84	9.64	9.19	9.21
4:2FTS	757124-72-4	5.32	4.92	5.72	5.32	5.32
6:2FTS	27619-97-2	6.64	6.24	7.04	6.61	6.62
8:2FTS	39108-34-4	7.52	7.12	7.92	7.47	7.48
PFOSA	754-91-6	8.15	7.75	8.55	8.08	8.10
NMeFOSA	31506-32-8	10.17	9.77	10.57	10.12	10.13
NEtFOSA	4151-50-2	10.50	10.10	10.90	10.47	10.47
NMeFOSAA	2355-31-9	7.71	7.31	8.11	7.67	7.68
NEtFOSAA	2991-50-6	7.86	7.46	8.26	7.81	7.83
NMeFOSE	24448-09-7	10.13	9.73	10.53	10.09	10.10
NEtFOSE	1691-99-2	10.42	10.02	10.82	10.39	10.39
HFPO-DA	13252-13-6	5.80	5.40	6.20	5.79	5.80
Adona	919005-14-4	6.48	6.08	6.88	6.45	6.47
PFMPA	377-73-1	3.22	2.82	3.62	3.20	3.19
PFMBA	863090-89-5	4.84	4.44	5.24	4.84	4.84
NFDHA	151772-58-6	5.43	5.03	5.83	5.42	5.43
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	8.01	8.03
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	8.75	8.77
PFEESA	113507-82-7	5.83	5.43	6.23	5.82	5.83
3:3 FTCA	356-02-5	3.77	3.37	4.17	3.76	3.76
5:3 FTCA	914637-49-3	5.86	5.46	6.26	5.85	5.86
7:3 FTCA	812-70-4	6.94	6.54	7.34	6.91	6.92

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			Laboratory Control Sample	Laboratory Control Sample
Standard ID	MC62			DQ778LCS-FS	DQ779LCS-FS
Analysis Date	03/22/2024			-	-
Analysis Time	21:20			-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.95	1.95
13C5-PFPeA	4.44	4.04	4.84	4.43	4.44
13C5-PFHxA	5.53	5.13	5.93	5.52	5.53
13C4-PFHpA	6.27	5.87	6.67	6.24	6.25
13C8-PFOA	6.80	6.40	7.20	6.77	6.78
13C9-PFNA	7.26	6.86	7.66	7.22	7.23
13C6-PFDA	7.67	7.27	8.07	7.62	7.64
13C7-PFUnA	8.05	7.65	8.45	8.00	8.02
13C2-PFDoA	8.41	8.01	8.81	8.36	8.39
13C2-PFTeDA	9.10	8.70	9.50	9.05	9.08
13C3-PFBS	5.41	5.01	5.81	5.40	5.41
13C3-PFHxS	6.87	6.47	7.27	6.84	6.84
13C8-PFOS	7.78	7.38	8.18	7.73	7.75
13C2-4:2FTS	5.31	4.91	5.71	5.31	5.32
13C2-6:2FTS	6.63	6.23	7.03	6.60	6.61
13C2-8:2FTS	7.51	7.11	7.91	7.46	7.48
13C8-PFOSA	8.15	7.75	8.55	8.07	8.09
d3-MeFOSA	10.16	9.76	10.56	10.12	10.13
d5-EtFOSA	10.49	10.09	10.89	10.46	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.66	7.67
d5-EtFOSAA	7.85	7.45	8.25	7.80	7.82
d7-MeFOSE	10.11	9.71	10.51	10.07	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36	10.37
13C3-HFPO-DA	5.80	5.40	6.20	5.78	5.79
NIS	**RT**	Lower	Upper	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.95	1.96
13C2-PFHxA	5.53	5.13	5.93	5.52	5.53
13C4-PFOA	6.81	6.41	7.21	6.78	6.78
13C5-PFNA	7.26	6.86	7.66	7.22	7.23
13C2-PFDA	7.67	7.27	8.07	7.62	7.64
18O2-PFHxS	6.87	6.47	7.27	6.84	6.84
13C4-PFOS	7.78	7.38	8.18	7.73	7.75

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-64-20240320	WGNA-SW-64-20240320	WGNA-FB-20240320
Standard ID		MC62			C2710MS-FS	C2710MSD-FS	C2701-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.97	1.97	-
PFPeA	2706-90-3	4.45	4.05	4.85	4.44	4.47	-
PFHxA	307-24-4	5.54	5.14	5.94	5.52	5.54	-
PFHpA	375-85-9	6.28	5.88	6.68	6.23	6.27	-
PFOA	335-67-1	6.82	6.42	7.22	6.77	6.79	-
PFNA	375-95-1	7.27	6.87	7.67	7.22	7.24	-
PFDA	335-76-2	7.68	7.28	8.08	7.63	7.65	-
PFUnA	2058-94-8	8.06	7.66	8.46	8.01	8.03	-
PFDoA	307-55-1	8.43	8.03	8.83	8.37	8.39	-
PFTrDA	72629-94-8	8.77	8.37	9.17	8.73	8.74	-
PFTeDA	376-06-7	9.11	8.71	9.51	9.06	9.08	-
PFBS	375-73-5	5.42	5.02	5.82	5.40	5.42	-
PFPeS	2706-91-4	6.28	5.88	6.68	6.24	6.27	-
PFHxS	355-46-4	6.87	6.47	7.27	6.83	6.85	-
PFHpS	375-92-8	7.36	6.96	7.76	7.31	7.33	-
PFOS	1763-23-1	7.79	7.39	8.19	7.73	7.75	-
PFNS	68259-12-1	8.18	7.78	8.58	8.13	8.15	-
PFDS	335-77-3	8.55	8.15	8.95	8.50	8.52	-
PFDoS	79780-39-5	9.24	8.84	9.64	9.19	9.21	-
4:2FTS	757124-72-4	5.32	4.92	5.72	5.30	5.33	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.59	6.62	-
8:2FTS	39108-34-4	7.52	7.12	7.92	7.46	7.48	-
PFOSA	754-91-6	8.15	7.75	8.55	8.07	8.09	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	10.12	10.13	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	10.46	10.47	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	7.66	7.68	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	7.80	7.82	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	10.09	10.10	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	10.38	10.39	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	5.77	5.80	-
Adona	919005-14-4	6.48	6.08	6.88	6.43	6.47	-
PFMPA	377-73-1	3.22	2.82	3.62	3.23	3.22	-
PFMBA	863090-89-5	4.84	4.44	5.24	4.82	4.85	-
NFDHA	151772-58-6	5.43	5.03	5.83	5.40	5.43	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	8.00	8.02	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	8.75	8.77	-
PFEESA	113507-82-7	5.83	5.43	6.23	5.79	5.83	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	3.77	3.78	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	5.82	5.86	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	6.90	6.92	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-64-20240320	WGNA-SW-64-20240320	WGNA-FB-20240320
Standard ID	MC62			C2710MS-FS	C2710MSD-FS	C2701-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		RT Window	Sciex 6500+ (AG) LC/MS/MS	RT Window
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96	1.96	1.97
13C5-PFPeA	4.44	4.04	4.84	4.43	4.45	4.44
13C5-PFHxA	5.53	5.13	5.93	5.50	5.53	5.52
13C4-PFHpA	6.27	5.87	6.67	6.22	6.26	6.25
13C8-PFOA	6.80	6.40	7.20	6.76	6.78	6.79
13C9-PFNA	7.26	6.86	7.66	7.21	7.23	7.24
13C6-PFDA	7.67	7.27	8.07	7.61	7.63	7.64
13C7-PFUnA	8.05	7.65	8.45	7.99	8.02	8.01
13C2-PFDoA	8.41	8.01	8.81	8.36	8.38	8.38
13C2-PFTeDA	9.10	8.70	9.50	9.05	9.07	9.07
13C3-PFBS	5.41	5.01	5.81	5.38	5.41	5.40
13C3-PFHxS	6.87	6.47	7.27	6.82	6.84	6.85
13C8-PFOS	7.78	7.38	8.18	7.72	7.74	7.75
13C2-4:2FTS	5.31	4.91	5.71	5.29	5.32	5.31
13C2-6:2FTS	6.63	6.23	7.03	6.58	6.61	6.62
13C2-8:2FTS	7.51	7.11	7.91	7.45	7.47	7.48
13C8-PFOSA	8.15	7.75	8.55	8.06	8.08	8.08
d3-MeFOSA	10.16	9.76	10.56	10.12	10.13	10.13
d5-EtFOSA	10.49	10.09	10.89	10.45	10.46	10.46
d3-MeFOSAA	7.70	7.30	8.10	7.65	7.67	7.67
d5-EtFOSAA	7.85	7.45	8.25	7.79	7.81	7.81
d7-MeFOSE	10.11	9.71	10.51	10.06	10.08	10.07
d9-EtFOSE	10.40	10.00	10.80	10.36	10.37	10.37
13C3-HFPO-DA	5.80	5.40	6.20	5.76	5.79	5.79
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.97	1.96	1.97
13C2-PFHxA	5.53	5.13	5.93	5.50	5.53	5.53
13C4-PFOA	6.81	6.41	7.21	6.76	6.78	6.79
13C5-PFNA	7.26	6.86	7.66	7.21	7.23	7.24
13C2-PFDA	7.67	7.27	8.07	7.62	7.64	7.64
18O2-PFHxS	6.87	6.47	7.27	6.82	6.84	6.85
13C4-PFOS	7.78	7.38	8.18	7.73	7.75	7.75

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-19-20240320	WGNA-SW-17-20240320	WGNA-SW-28-20240320
Standard ID		MC62			C2702-FS	C2703-FS	C2704-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.97	1.95	1.96
PFPeA	2706-90-3	4.45	4.05	4.85	4.46	4.43	4.43
PFHxA	307-24-4	5.54	5.14	5.94	5.56	5.53	5.53
PFHpA	375-85-9	6.28	5.88	6.68	6.29	6.26	6.25
PFOA	335-67-1	6.82	6.42	7.22	6.82	6.79	6.78
PFNA	375-95-1	7.27	6.87	7.67	7.26	7.23	7.23
PFDA	335-76-2	7.68	7.28	8.08	-	-	-
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.44	5.41	5.41
PFPeS	2706-91-4	6.28	5.88	6.68	6.30	6.26	6.26
PFHxS	355-46-4	6.87	6.47	7.27	6.87	6.84	6.84
PFHpS	375-92-8	7.36	6.96	7.76	7.35	7.32	7.32
PFOS	1763-23-1	7.79	7.39	8.19	7.77	7.74	7.75
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	5.31
6:2FTS	27619-97-2	6.64	6.24	7.04	6.65	6.61	6.61
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-	5.84
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-19-20240320	WGNA-SW-17-20240320	WGNA-SW-28-20240320
Standard ID	MC62			C2702-FS	C2703-FS	C2704-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	RT Window	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96	1.94	1.95
13C5-PFPeA	4.44	4.04	4.84	4.45	4.42	4.42
13C5-PFHxA	5.53	5.13	5.93	5.55	5.52	5.52
13C4-PFHpA	6.27	5.87	6.67	6.28	6.24	6.24
13C8-PFOA	6.80	6.40	7.20	6.81	6.77	6.77
13C9-PFNA	7.26	6.86	7.66	7.25	7.22	7.22
13C6-PFDA	7.67	7.27	8.07	7.65	7.62	7.63
13C7-PFUnA	8.05	7.65	8.45	8.04	8.01	8.01
13C2-PFDoA	8.41	8.01	8.81	8.41	8.38	8.38
13C2-PFTeDA	9.10	8.70	9.50	9.09	9.06	9.07
13C3-PFBS	5.41	5.01	5.81	5.43	5.40	5.39
13C3-PFHxS	6.87	6.47	7.27	6.87	6.84	6.83
13C8-PFOS	7.78	7.38	8.18	7.76	7.73	7.74
13C2-4:2FTS	5.31	4.91	5.71	5.33	5.30	5.30
13C2-6:2FTS	6.63	6.23	7.03	6.64	6.60	6.60
13C2-8:2FTS	7.51	7.11	7.91	7.49	7.47	7.47
13C8-PFOSA	8.15	7.75	8.55	8.10	8.07	8.08
d3-MeFOSA	10.16	9.76	10.56	10.14	10.12	10.13
d5-EtFOSA	10.49	10.09	10.89	10.47	10.46	10.47
d3-MeFOSAA	7.70	7.30	8.10	7.69	7.66	7.66
d5-EtFOSAA	7.85	7.45	8.25	7.83	7.80	7.81
d7-MeFOSE	10.11	9.71	10.51	10.09	10.07	10.08
d9-EtFOSE	10.40	10.00	10.80	10.38	10.36	10.37
13C3-HFPO-DA	5.80	5.40	6.20	5.82	5.78	5.78
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.97	1.95	1.96
13C2-PFHxA	5.53	5.13	5.93	5.55	5.52	5.52
13C4-PFOA	6.81	6.41	7.21	6.81	6.78	6.77
13C5-PFNA	7.26	6.86	7.66	7.25	7.22	7.22
13C2-PFDA	7.67	7.27	8.07	7.65	7.63	7.63
18O2-PFHxS	6.87	6.47	7.27	6.87	6.84	6.84
13C4-PFOS	7.78	7.38	8.18	7.76	7.74	7.74

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-14-20240320	WGNA-SW-63-20240320	WGNA-SW-10-20240320
Standard ID		MC62			C2705-FS	C2706-FS	C2707-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.97	1.96	1.95
PFPeA	2706-90-3	4.45	4.05	4.85	4.44	4.45	4.44
PFHxA	307-24-4	5.54	5.14	5.94	5.53	5.54	5.53
PFHpA	375-85-9	6.28	5.88	6.68	6.25	6.26	6.26
PFOA	335-67-1	6.82	6.42	7.22	6.77	6.79	6.78
PFNA	375-95-1	7.27	6.87	7.67	7.22	7.24	7.22
PFDA	335-76-2	7.68	7.28	8.08	-	-	7.63
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.41	5.42	5.41
PFPeS	2706-91-4	6.28	5.88	6.68	6.26	6.26	6.26
PFHxS	355-46-4	6.87	6.47	7.27	6.83	6.85	6.84
PFHpS	375-92-8	7.36	6.96	7.76	7.31	7.33	-
PFOS	1763-23-1	7.79	7.39	8.19	7.73	7.75	7.64
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.60	6.62	-
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-14-20240320	WGNA-SW-63-20240320	WGNA-SW-10-20240320
Standard ID	MC62			C2705-FS	C2706-FS	C2707-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96	1.95	1.94
13C5-PFPeA	4.44	4.04	4.84	4.43	4.43	4.43
13C5-PFHxA	5.53	5.13	5.93	5.52	5.52	5.52
13C4-PFHpA	6.27	5.87	6.67	6.24	6.25	6.24
13C8-PFOA	6.80	6.40	7.20	6.76	6.78	6.77
13C9-PFNA	7.26	6.86	7.66	7.21	7.23	7.21
13C6-PFDA	7.67	7.27	8.07	7.62	7.64	7.62
13C7-PFUnA	8.05	7.65	8.45	8.00	8.02	8.00
13C2-PFDoA	8.41	8.01	8.81	8.37	8.38	8.37
13C2-PFTeDA	9.10	8.70	9.50	9.06	9.08	9.06
13C3-PFBS	5.41	5.01	5.81	5.40	5.41	5.40
13C3-PFHxS	6.87	6.47	7.27	6.83	6.84	6.83
13C8-PFOS	7.78	7.38	8.18	7.73	7.74	7.73
13C2-4:2FTS	5.31	4.91	5.71	5.30	5.31	5.30
13C2-6:2FTS	6.63	6.23	7.03	6.59	6.61	6.61
13C2-8:2FTS	7.51	7.11	7.91	7.45	7.47	7.46
13C8-PFOSA	8.15	7.75	8.55	8.07	8.08	8.07
d3-MeFOSA	10.16	9.76	10.56	10.13	10.13	10.12
d5-EtFOSA	10.49	10.09	10.89	10.46	10.47	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.65	7.67	7.65
d5-EtFOSAA	7.85	7.45	8.25	7.79	7.81	7.80
d7-MeFOSE	10.11	9.71	10.51	10.07	10.08	10.07
d9-EtFOSE	10.40	10.00	10.80	10.37	10.37	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.78	5.79	5.78
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.96	1.95	1.95
13C2-PFHxA	5.53	5.13	5.93	5.52	5.53	5.52
13C4-PFOA	6.81	6.41	7.21	6.76	6.78	6.77
13C5-PFNA	7.26	6.86	7.66	7.21	7.23	7.21
13C2-PFDA	7.67	7.27	8.07	7.62	7.64	7.62
18O2-PFHxS	6.87	6.47	7.27	6.83	6.84	6.84
13C4-PFOS	7.78	7.38	8.18	7.73	7.74	7.73

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-05-20240320	WGNA-SW-04-20240320	WGNA-SW-64-20240320
Standard ID		MC62			C2708-FS	C2709-FS	C2710-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.97	1.97	1.97
PFPeA	2706-90-3	4.45	4.05	4.85	4.48	4.47	4.43
PFHxA	307-24-4	5.54	5.14	5.94	5.56	5.56	5.43
PFHpA	375-85-9	6.28	5.88	6.68	6.28	6.29	6.18
PFOA	335-67-1	6.82	6.42	7.22	6.80	6.81	6.73
PFNA	375-95-1	7.27	6.87	7.67	7.25	7.25	7.19
PFDA	335-76-2	7.68	7.28	8.08	7.66	7.65	-
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.44	5.44	5.32
PFPeS	2706-91-4	6.28	5.88	6.68	6.29	6.29	6.19
PFHxS	355-46-4	6.87	6.47	7.27	6.86	6.87	6.79
PFHpS	375-92-8	7.36	6.96	7.76	7.34	7.34	7.28
PFOS	1763-23-1	7.79	7.39	8.19	7.76	7.76	7.61
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.63	6.64	-
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	5.84	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-05-20240320	WGNA-SW-04-20240320	WGNA-SW-64-20240320
Standard ID	MC62			C2708-FS	C2709-FS	C2710-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96	1.96	1.96
13C5-PFPeA	4.44	4.04	4.84	4.47	4.46	4.42
13C5-PFHxA	5.53	5.13	5.93	5.55	5.55	5.42
13C4-PFHpA	6.27	5.87	6.67	6.27	6.28	6.17
13C8-PFOA	6.80	6.40	7.20	6.79	6.80	6.72
13C9-PFNA	7.26	6.86	7.66	7.24	7.24	7.18
13C6-PFDA	7.67	7.27	8.07	7.64	7.64	7.59
13C7-PFUnA	8.05	7.65	8.45	8.02	8.02	7.98
13C2-PFDoA	8.41	8.01	8.81	8.38	8.39	8.35
13C2-PFTeDA	9.10	8.70	9.50	9.08	9.08	9.05
13C3-PFBS	5.41	5.01	5.81	5.43	5.43	5.31
13C3-PFHxS	6.87	6.47	7.27	6.85	6.86	6.78
13C8-PFOS	7.78	7.38	8.18	7.75	7.75	7.70
13C2-4:2FTS	5.31	4.91	5.71	5.33	5.33	5.21
13C2-6:2FTS	6.63	6.23	7.03	6.62	6.63	6.55
13C2-8:2FTS	7.51	7.11	7.91	7.48	7.48	7.43
13C8-PFOSA	8.15	7.75	8.55	8.09	8.09	8.03
d3-MeFOSA	10.16	9.76	10.56	10.14	10.13	10.12
d5-EtFOSA	10.49	10.09	10.89	10.47	10.46	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.68	7.67	7.63
d5-EtFOSAA	7.85	7.45	8.25	7.82	7.81	7.77
d7-MeFOSE	10.11	9.71	10.51	10.08	10.08	10.06
d9-EtFOSE	10.40	10.00	10.80	10.37	10.37	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.81	5.81	5.69
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.97	1.97	1.96
13C2-PFHxA	5.53	5.13	5.93	5.55	5.55	5.42
13C4-PFOA	6.81	6.41	7.21	6.79	6.80	6.72
13C5-PFNA	7.26	6.86	7.66	7.24	7.24	7.18
13C2-PFDA	7.67	7.27	8.07	7.64	7.64	7.59
18O2-PFHxS	6.87	6.47	7.27	6.85	6.86	6.78
13C4-PFOS	7.78	7.38	8.18	7.75	7.75	7.70

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-03-20240320	WGNA-SW-01-20240320	WGNA-SW-52-20240320
Standard ID		MC62			C2711-FS	C2712-FS	C2713-FS
Analysis Date		03/22/2024			-	-	-
Analysis Time		21:20			-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.97	1.95	1.96
PFPeA	2706-90-3	4.45	4.05	4.85	4.44	4.43	4.43
PFHxA	307-24-4	5.54	5.14	5.94	5.53	5.51	5.51
PFHpA	375-85-9	6.28	5.88	6.68	6.25	6.23	6.23
PFOA	335-67-1	6.82	6.42	7.22	6.78	6.76	6.76
PFNA	375-95-1	7.27	6.87	7.67	7.23	7.20	7.21
PFDA	335-76-2	7.68	7.28	8.08	7.64	7.61	-
PFUnA	2058-94-8	8.06	7.66	8.46	-	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.41	5.39	5.39
PFPeS	2706-91-4	6.28	5.88	6.68	6.26	6.24	6.23
PFHxS	355-46-4	6.87	6.47	7.27	6.84	6.81	6.82
PFHpS	375-92-8	7.36	6.96	7.76	7.32	7.29	7.30
PFOS	1763-23-1	7.79	7.39	8.19	7.74	7.71	7.71
PFNS	68259-12-1	8.18	7.78	8.58	-	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.61	6.58	-
8:2FTS	39108-34-4	7.52	7.12	7.92	7.47	7.44	-
PFOSA	754-91-6	8.15	7.75	8.55	-	8.02	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	5.82	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-03-20240320	WGNA-SW-01-20240320	WGNA-SW-52-20240320
Standard ID	MC62			C2711-FS	C2712-FS	C2713-FS
Analysis Date	03/22/2024			-	-	-
Analysis Time	21:20			-	-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.96	1.94	1.95
13C5-PFPeA	4.44	4.04	4.84	4.43	4.42	4.42
13C5-PFHxA	5.53	5.13	5.93	5.52	5.50	5.50
13C4-PFHpA	6.27	5.87	6.67	6.24	6.22	6.21
13C8-PFOA	6.80	6.40	7.20	6.77	6.75	6.75
13C9-PFNA	7.26	6.86	7.66	7.22	7.19	7.20
13C6-PFDA	7.67	7.27	8.07	7.63	7.59	7.60
13C7-PFUnA	8.05	7.65	8.45	8.01	7.98	7.99
13C2-PFDoA	8.41	8.01	8.81	8.38	8.35	8.36
13C2-PFTeDA	9.10	8.70	9.50	9.06	9.05	9.05
13C3-PFBS	5.41	5.01	5.81	5.40	5.38	5.38
13C3-PFHxS	6.87	6.47	7.27	6.83	6.81	6.81
13C8-PFOS	7.78	7.38	8.18	7.74	7.71	7.71
13C2-4:2FTS	5.31	4.91	5.71	5.30	5.29	5.29
13C2-6:2FTS	6.63	6.23	7.03	6.60	6.58	6.58
13C2-8:2FTS	7.51	7.11	7.91	7.47	7.44	7.44
13C8-PFOSA	8.15	7.75	8.55	8.08	8.04	8.05
d3-MeFOSA	10.16	9.76	10.56	10.12	10.12	10.12
d5-EtFOSA	10.49	10.09	10.89	10.45	10.45	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.66	7.63	7.64
d5-EtFOSAA	7.85	7.45	8.25	7.81	7.78	7.78
d7-MeFOSE	10.11	9.71	10.51	10.07	10.06	10.06
d9-EtFOSE	10.40	10.00	10.80	10.36	10.36	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.78	5.76	5.76
NIS	**RT**	Lower	Upper	**RT**	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.96	1.94	1.96
13C2-PFHxA	5.53	5.13	5.93	5.52	5.50	5.50
13C4-PFOA	6.81	6.41	7.21	6.77	6.75	6.75
13C5-PFNA	7.26	6.86	7.66	7.22	7.19	7.20
13C2-PFDA	7.67	7.27	8.07	7.63	7.60	7.60
18O2-PFHxS	6.87	6.47	7.27	6.83	6.81	6.81
13C4-PFOS	7.78	7.38	8.18	7.74	7.71	7.71

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		L4			WGNA-SW-DUP-03-20240320	WGNA-SW-DUP-04-20240320
Standard ID		MC62			C2714-FS	C2715-FS
Analysis Date		03/22/2024			-	-
Analysis Time		21:20			-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	Lower	Upper	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.57	2.37	1.94	1.96
PFPeA	2706-90-3	4.45	4.05	4.85	4.43	4.43
PFHxA	307-24-4	5.54	5.14	5.94	5.52	5.51
PFHpA	375-85-9	6.28	5.88	6.68	6.24	6.23
PFOA	335-67-1	6.82	6.42	7.22	6.76	6.75
PFNA	375-95-1	7.27	6.87	7.67	7.21	7.20
PFDA	335-76-2	7.68	7.28	8.08	-	-
PFUnA	2058-94-8	8.06	7.66	8.46	-	-
PFDoA	307-55-1	8.43	8.03	8.83	-	-
PFTrDA	72629-94-8	8.77	8.37	9.17	-	-
PFTeDA	376-06-7	9.11	8.71	9.51	-	-
PFBS	375-73-5	5.42	5.02	5.82	5.40	5.39
PFPeS	2706-91-4	6.28	5.88	6.68	6.24	6.24
PFHxS	355-46-4	6.87	6.47	7.27	6.82	6.81
PFHpS	375-92-8	7.36	6.96	7.76	7.30	7.29
PFOS	1763-23-1	7.79	7.39	8.19	7.72	7.70
PFNS	68259-12-1	8.18	7.78	8.58	-	-
PFDS	335-77-3	8.55	8.15	8.95	-	-
PFDoS	79780-39-5	9.24	8.84	9.64	-	-
4:2FTS	757124-72-4	5.32	4.92	5.72	-	-
6:2FTS	27619-97-2	6.64	6.24	7.04	6.59	-
8:2FTS	39108-34-4	7.52	7.12	7.92	-	-
PFOSA	754-91-6	8.15	7.75	8.55	-	-
NMeFOSA	31506-32-8	10.17	9.77	10.57	-	-
NEtFOSA	4151-50-2	10.50	10.10	10.90	-	-
NMeFOSAA	2355-31-9	7.71	7.31	8.11	-	-
NEtFOSAA	2991-50-6	7.86	7.46	8.26	-	-
NMeFOSE	24448-09-7	10.13	9.73	10.53	-	-
NEtFOSE	1691-99-2	10.42	10.02	10.82	-	-
HFPO-DA	13252-13-6	5.80	5.40	6.20	-	-
Adona	919005-14-4	6.48	6.08	6.88	-	-
PFMPA	377-73-1	3.22	2.82	3.62	-	-
PFMBA	863090-89-5	4.84	4.44	5.24	-	-
NFDHA	151772-58-6	5.43	5.03	5.83	-	-
9Cl-PF3ONS	756426-58-1	8.06	7.66	8.46	-	-
11Cl-PF3OUdS	763051-92-9	8.80	8.40	9.20	-	-
PFEESA	113507-82-7	5.83	5.43	6.23	-	-
3:3 FTCA	356-02-5	3.77	3.37	4.17	-	-
5:3 FTCA	914637-49-3	5.86	5.46	6.26	-	-
7:3 FTCA	812-70-4	6.94	6.54	7.34	-	-

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description	L4			WGNA-SW-DUP-03-20240320	WGNA-SW-DUP-04-20240320
Standard ID	MC62			C2714-FS	C2715-FS
Analysis Date	03/22/2024			-	-
Analysis Time	21:20			-	-
Analytical Instrument	Sciex 6500+ (AG) LC/MS/MS	RT Window		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
EIS	**RT**	Lower	Upper	**RT**	**RT**
13C4-PFBA	1.96	1.56	2.36	1.93	1.94
13C5-PFPeA	4.44	4.04	4.84	4.42	4.42
13C5-PFHxA	5.53	5.13	5.93	5.51	5.50
13C4-PFHpA	6.27	5.87	6.67	6.23	6.22
13C8-PFOA	6.80	6.40	7.20	6.75	6.74
13C9-PFNA	7.26	6.86	7.66	7.20	7.18
13C6-PFDA	7.67	7.27	8.07	7.60	7.59
13C7-PFUnA	8.05	7.65	8.45	7.99	7.97
13C2-PFDoA	8.41	8.01	8.81	8.36	8.35
13C2-PFTeDA	9.10	8.70	9.50	9.05	9.05
13C3-PFBS	5.41	5.01	5.81	5.39	5.38
13C3-PFHxS	6.87	6.47	7.27	6.82	6.80
13C8-PFOS	7.78	7.38	8.18	7.71	7.70
13C2-4:2FTS	5.31	4.91	5.71	5.29	5.28
13C2-6:2FTS	6.63	6.23	7.03	6.58	6.57
13C2-8:2FTS	7.51	7.11	7.91	7.45	7.43
13C8-PFOSA	8.15	7.75	8.55	8.05	8.04
d3-MeFOSA	10.16	9.76	10.56	10.11	10.12
d5-EtFOSA	10.49	10.09	10.89	10.45	10.45
d3-MeFOSAA	7.70	7.30	8.10	7.64	7.63
d5-EtFOSAA	7.85	7.45	8.25	7.78	7.77
d7-MeFOSE	10.11	9.71	10.51	10.06	10.06
d9-EtFOSE	10.40	10.00	10.80	10.36	10.36
13C3-HFPO-DA	5.80	5.40	6.20	5.77	5.76
NIS	**RT**	Lower	Upper	**RT**	**RT**
13C3-PFBA	1.96	1.56	2.36	1.93	1.95
13C2-PFHxA	5.53	5.13	5.93	5.51	5.50
13C4-PFOA	6.81	6.41	7.21	6.75	6.74
13C5-PFNA	7.26	6.86	7.66	7.20	7.19
13C2-PFDA	7.67	7.27	8.07	7.61	7.59
18O2-PFHxS	6.87	6.47	7.27	6.82	6.80
13C4-PFOS	7.78	7.38	8.18	7.72	7.70

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		Procedural Blank	Laboratory Control Sample
Standard ID		DQ777PB-FS	DQ778LCS-FS
Analysis Date		-	-
Analysis Time		-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)
PFBA	375-22-4	-	1.96
PFPeA	2706-90-3	-	4.44
PFHxA	307-24-4	-	5.53
PFHpA	375-85-9	-	6.25
PFOA	335-67-1	-	6.78
PFNA	375-95-1	-	7.23
PFDA	335-76-2	-	7.63
PFUnA	2058-94-8	-	8.01
PFDoA	307-55-1	-	8.38
PFTeDA	376-06-7	-	9.06
PFBS	375-73-5	-	5.41
PFHxS	355-46-4	-	6.85
PFOS	1763-23-1	-	7.74
4:2FTS	757124-72-4	-	5.32
6:2FTS	27619-97-2	-	6.61
8:2FTS	39108-34-4	-	7.47
PFOSA	754-91-6	-	8.08
NMeFOSA	31506-32-8	-	10.12
NEtFOSA	4151-50-2	-	10.47
NMeFOSAA	2355-31-9	-	7.67
NEtFOSAA	2991-50-6	-	7.81
NMeFOSE	24448-09-7	-	10.09
NEtFOSE	1691-99-2	-	10.39
HFPO-DA	13252-13-6	-	5.79
EIS		**RT**	**RT**
13C4-PFBA		1.96	1.95
13C5-PFPeA		4.43	4.43
13C5-PFHxA		5.50	5.52
13C4-PFHpA		6.23	6.24
13C8-PFOA		6.76	6.77
13C9-PFNA		7.21	7.22
13C6-PFDA		7.61	7.62
13C7-PFUnA		7.99	8.00
13C2-PFDoA		8.36	8.36
13C2-PFTeDA		9.06	9.05
13C3-PFBS		5.39	5.40
13C3-PFHxS		6.82	6.84
13C8-PFOS		7.72	7.73
13C2-4:2FTS		5.29	5.31
13C2-6:2FTS		6.59	6.60
13C2-8:2FTS		7.45	7.46
13C8-PFOSA		8.06	8.07
d3-MeFOSA		10.12	10.12
d5-EtFOSA		10.45	10.46
d3-MeFOSAA		7.64	7.66
d5-EtFOSAA		7.79	7.80
d7-MeFOSE		10.06	10.07
d9-EtFOSE		10.36	10.36
13C3-HFPO-DA		5.77	5.78

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		Laboratory Control Sample	WGNA-SW-64-20240320	WGNA-SW-64-20240320	WGNA-FB-20240320
Standard ID		DQ779LCS-FS	C2710MS-FS	C2710MSD-FS	C2701-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.97	1.97	-
PFPeA	2706-90-3	4.45	4.44	4.47	-
PFHxA	307-24-4	5.54	5.52	5.54	-
PFHpA	375-85-9	6.27	6.23	6.27	-
PFOA	335-67-1	6.79	6.77	6.79	-
PFNA	375-95-1	7.24	7.22	7.24	-
PFDA	335-76-2	7.65	7.63	7.65	-
PFUnA	2058-94-8	8.03	8.01	8.03	-
PFDoA	307-55-1	8.40	8.37	8.39	-
PFTeDA	376-06-7	9.08	9.06	9.08	-
PFBS	375-73-5	5.42	5.40	5.42	-
PFHxS	355-46-4	6.85	6.83	6.85	-
PFOS	1763-23-1	7.76	7.73	7.75	-
4:2FTS	757124-72-4	5.32	5.30	5.33	-
6:2FTS	27619-97-2	6.62	6.59	6.62	-
8:2FTS	39108-34-4	7.48	7.46	7.48	-
PFOSA	754-91-6	8.10	8.07	8.09	-
NMeFOSA	31506-32-8	10.13	10.12	10.13	-
NEtFOSA	4151-50-2	10.47	10.46	10.47	-
NMeFOSAA	2355-31-9	7.68	7.66	7.68	-
NEtFOSAA	2991-50-6	7.83	7.80	7.82	-
NMeFOSE	24448-09-7	10.10	10.09	10.10	-
NEtFOSE	1691-99-2	10.39	10.38	10.39	-
HFPO-DA	13252-13-6	5.80	5.77	5.80	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.95	1.96	1.96	1.97
13C5-PFPeA		4.44	4.43	4.45	4.44
13C5-PFHxA		5.53	5.50	5.53	5.52
13C4-PFHpA		6.25	6.22	6.26	6.25
13C8-PFOA		6.78	6.76	6.78	6.79
13C9-PFNA		7.23	7.21	7.23	7.24
13C6-PFDA		7.64	7.61	7.63	7.64
13C7-PFUnA		8.02	7.99	8.02	8.01
13C2-PFDoA		8.39	8.36	8.38	8.38
13C2-PFTeDA		9.08	9.05	9.07	9.07
13C3-PFBS		5.41	5.38	5.41	5.40
13C3-PFHxS		6.84	6.82	6.84	6.85
13C8-PFOS		7.75	7.72	7.74	7.75
13C2-4:2FTS		5.32	5.29	5.32	5.31
13C2-6:2FTS		6.61	6.58	6.61	6.62
13C2-8:2FTS		7.48	7.45	7.47	7.48
13C8-PFOSA		8.09	8.06	8.08	8.08
d3-MeFOSA		10.13	10.12	10.13	10.13
d5-EtFOSA		10.46	10.45	10.46	10.46
d3-MeFOSAA		7.67	7.65	7.67	7.67
d5-EtFOSAA		7.82	7.79	7.81	7.81
d7-MeFOSE		10.07	10.06	10.08	10.07
d9-EtFOSE		10.37	10.36	10.37	10.37
13C3-HFPO-DA		5.79	5.76	5.79	5.79

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		WGNA-SW-19-20240320	WGNA-SW-17-20240320	WGNA-SW-28-20240320	WGNA-SW-14-20240320
Standard ID		C2702-FS	C2703-FS	C2704-FS	C2705-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.95	1.96	1.97
PFPeA	2706-90-3	4.46	4.43	4.43	4.44
PFHxA	307-24-4	5.56	5.53	5.53	5.53
PFHpA	375-85-9	6.29	6.26	6.25	6.25
PFOA	335-67-1	6.82	6.79	6.78	6.77
PFNA	375-95-1	7.26	7.23	7.23	7.22
PFDA	335-76-2	-	-	-	-
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.44	5.41	5.41	5.41
PFHxS	355-46-4	6.87	6.84	6.84	6.83
PFOS	1763-23-1	7.77	7.74	7.75	7.73
4:2FTS	757124-72-4	-	-	5.31	-
6:2FTS	27619-97-2	6.65	6.61	6.61	6.60
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.96	1.94	1.95	1.96
13C5-PFPeA		4.45	4.42	4.42	4.43
13C5-PFHxA		5.55	5.52	5.52	5.52
13C4-PFHpA		6.28	6.24	6.24	6.24
13C8-PFOA		6.81	6.77	6.77	6.76
13C9-PFNA		7.25	7.22	7.22	7.21
13C6-PFDA		7.65	7.62	7.63	7.62
13C7-PFUnA		8.04	8.01	8.01	8.00
13C2-PFDoA		8.41	8.38	8.38	8.37
13C2-PFTeDA		9.09	9.06	9.07	9.06
13C3-PFBS		5.43	5.40	5.39	5.40
13C3-PFHxS		6.87	6.84	6.83	6.83
13C8-PFOS		7.76	7.73	7.74	7.73
13C2-4:2FTS		5.33	5.30	5.30	5.30
13C2-6:2FTS		6.64	6.60	6.60	6.59
13C2-8:2FTS		7.49	7.47	7.47	7.45
13C8-PFOSA		8.10	8.07	8.08	8.07
d3-MeFOSA		10.14	10.12	10.13	10.13
d5-EtFOSA		10.47	10.46	10.47	10.46
d3-MeFOSAA		7.69	7.66	7.66	7.65
d5-EtFOSAA		7.83	7.80	7.81	7.79
d7-MeFOSE		10.09	10.07	10.08	10.07
d9-EtFOSE		10.38	10.36	10.37	10.37
13C3-HFPO-DA		5.82	5.78	5.78	5.78

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		WGNA-SW-63-20240320	WGNA-SW-10-20240320	WGNA-SW-05-20240320	WGNA-SW-04-20240320
Standard ID		C2706-FS	C2707-FS	C2708-FS	C2709-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.96	1.95	1.97	1.97
PFPeA	2706-90-3	4.45	4.44	4.48	4.47
PFHxA	307-24-4	5.54	5.53	5.56	5.56
PFHpA	375-85-9	6.26	6.26	6.28	6.29
PFOA	335-67-1	6.79	6.78	6.80	6.81
PFNA	375-95-1	7.24	7.22	7.25	7.25
PFDA	335-76-2	-	7.63	7.66	7.65
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.42	5.41	5.44	5.44
PFHxS	355-46-4	6.85	6.84	6.86	6.87
PFOS	1763-23-1	7.75	7.64	7.76	7.76
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	6.62	-	6.63	6.64
8:2FTS	39108-34-4	-	-	-	-
PFOSA	754-91-6	-	-	-	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	5.84
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.95	1.94	1.96	1.96
13C5-PFPeA		4.43	4.43	4.47	4.46
13C5-PFHxA		5.52	5.52	5.55	5.55
13C4-PFHpA		6.25	6.24	6.27	6.28
13C8-PFOA		6.78	6.77	6.79	6.80
13C9-PFNA		7.23	7.21	7.24	7.24
13C6-PFDA		7.64	7.62	7.64	7.64
13C7-PFUnA		8.02	8.00	8.02	8.02
13C2-PFDoA		8.38	8.37	8.38	8.39
13C2-PFTeDA		9.08	9.06	9.08	9.08
13C3-PFBS		5.41	5.40	5.43	5.43
13C3-PFHxS		6.84	6.83	6.85	6.86
13C8-PFOS		7.74	7.73	7.75	7.75
13C2-4:2FTS		5.31	5.30	5.33	5.33
13C2-6:2FTS		6.61	6.61	6.62	6.63
13C2-8:2FTS		7.47	7.46	7.48	7.48
13C8-PFOSA		8.08	8.07	8.09	8.09
d3-MeFOSA		10.13	10.12	10.14	10.13
d5-EtFOSA		10.47	10.45	10.47	10.46
d3-MeFOSAA		7.67	7.65	7.68	7.67
d5-EtFOSAA		7.81	7.80	7.82	7.81
d7-MeFOSE		10.08	10.07	10.08	10.08
d9-EtFOSE		10.37	10.36	10.37	10.37
13C3-HFPO-DA		5.79	5.78	5.81	5.81

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		WGNA-SW-64-20240320	WGNA-SW-03-20240320	WGNA-SW-01-20240320	WGNA-SW-52-20240320
Standard ID		C2710-FS	C2711-FS	C2712-FS	C2713-FS
Analysis Date		-	-	-	-
Analysis Time		-	-	-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.97	1.97	1.95	1.96
PFPeA	2706-90-3	4.43	4.44	4.43	4.43
PFHxA	307-24-4	5.43	5.53	5.51	5.51
PFHpA	375-85-9	6.18	6.25	6.23	6.23
PFOA	335-67-1	6.73	6.78	6.76	6.76
PFNA	375-95-1	7.19	7.23	7.20	7.21
PFDA	335-76-2	-	7.64	7.61	-
PFUnA	2058-94-8	-	-	-	-
PFDoA	307-55-1	-	-	-	-
PFTeDA	376-06-7	-	-	-	-
PFBS	375-73-5	5.32	5.41	5.39	5.39
PFHxS	355-46-4	6.79	6.84	6.81	6.82
PFOS	1763-23-1	7.61	7.74	7.71	7.71
4:2FTS	757124-72-4	-	-	-	-
6:2FTS	27619-97-2	-	6.61	6.58	-
8:2FTS	39108-34-4	-	7.47	7.44	-
PFOSA	754-91-6	-	-	8.02	-
NMeFOSA	31506-32-8	-	-	-	-
NEtFOSA	4151-50-2	-	-	-	-
NMeFOSAA	2355-31-9	-	-	-	-
NEtFOSAA	2991-50-6	-	-	-	-
NMeFOSE	24448-09-7	-	-	-	-
NEtFOSE	1691-99-2	-	-	-	-
HFPO-DA	13252-13-6	-	-	-	-
EIS		**RT**	**RT**	**RT**	**RT**
13C4-PFBA		1.96	1.96	1.94	1.95
13C5-PFPeA		4.42	4.43	4.42	4.42
13C5-PFHxA		5.42	5.52	5.50	5.50
13C4-PFHpA		6.17	6.24	6.22	6.21
13C8-PFOA		6.72	6.77	6.75	6.75
13C9-PFNA		7.18	7.22	7.19	7.20
13C6-PFDA		7.59	7.63	7.59	7.60
13C7-PFUnA		7.98	8.01	7.98	7.99
13C2-PFDoA		8.35	8.38	8.35	8.36
13C2-PFTeDA		9.05	9.06	9.05	9.05
13C3-PFBS		5.31	5.40	5.38	5.38
13C3-PFHxS		6.78	6.83	6.81	6.81
13C8-PFOS		7.70	7.74	7.71	7.71
13C2-4:2FTS		5.21	5.30	5.29	5.29
13C2-6:2FTS		6.55	6.60	6.58	6.58
13C2-8:2FTS		7.43	7.47	7.44	7.44
13C8-PFOSA		8.03	8.08	8.04	8.05
d3-MeFOSA		10.12	10.12	10.12	10.12
d5-EtFOSA		10.45	10.45	10.45	10.45
d3-MeFOSAA		7.63	7.66	7.63	7.64
d5-EtFOSAA		7.77	7.81	7.78	7.78
d7-MeFOSE		10.06	10.07	10.06	10.06
d9-EtFOSE		10.36	10.36	10.36	10.36
13C3-HFPO-DA		5.69	5.78	5.76	5.76

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.00000
Preparation Batch: 24-0213
Data Set: DP-24-0238
Test Code: EPA_1633

Client ID / Description		WGNA-SW-DUP-03-20240320	WGNA-SW-DUP-04-20240320
Standard ID		C2714-FS	C2715-FS
Analysis Date		-	-
Analysis Time		-	-
Analytical Instrument		Sciex 6500+ (AG) LC/MS/MS	Sciex 6500+ (AG) LC/MS/MS
Analyte	CAS No.	RT (minutes)	RT (minutes)
PFBA	375-22-4	1.94	1.96
PFPeA	2706-90-3	4.43	4.43
PFHxA	307-24-4	5.52	5.51
PFHpA	375-85-9	6.24	6.23
PFOA	335-67-1	6.76	6.75
PFNA	375-95-1	7.21	7.20
PFDA	335-76-2	-	-
PFUnA	2058-94-8	-	-
PFDoA	307-55-1	-	-
PFTeDA	376-06-7	-	-
PFBS	375-73-5	5.40	5.39
PFHxS	355-46-4	6.82	6.81
PFOS	1763-23-1	7.72	7.70
4:2FTS	757124-72-4	-	-
6:2FTS	27619-97-2	6.59	-
8:2FTS	39108-34-4	-	-
PFOSA	754-91-6	-	-
NMeFOSA	31506-32-8	-	-
NEtFOSA	4151-50-2	-	-
NMeFOSAA	2355-31-9	-	-
NEtFOSAA	2991-50-6	-	-
NMeFOSE	24448-09-7	-	-
NEtFOSE	1691-99-2	-	-
HFPO-DA	13252-13-6	-	-
EIS		**RT**	**RT**
13C4-PFBA		1.93	1.94
13C5-PFPeA		4.42	4.42
13C5-PFHxA		5.51	5.50
13C4-PFHpA		6.23	6.22
13C8-PFOA		6.75	6.74
13C9-PFNA		7.20	7.18
13C6-PFDA		7.60	7.59
13C7-PFUnA		7.99	7.97
13C2-PFDoA		8.36	8.35
13C2-PFTeDA		9.05	9.05
13C3-PFBS		5.39	5.38
13C3-PFHxS		6.82	6.80
13C8-PFOS		7.71	7.70
13C2-4:2FTS		5.29	5.28
13C2-6:2FTS		6.58	6.57
13C2-8:2FTS		7.45	7.43
13C8-PFOSA		8.05	8.04
d3-MeFOSA		10.11	10.12
d5-EtFOSA		10.45	10.45
d3-MeFOSAA		7.64	7.63
d5-EtFOSAA		7.78	7.77
d7-MeFOSE		10.06	10.06
d9-EtFOSE		10.36	10.36
13C3-HFPO-DA		5.77	5.76

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MDL Values calculated based on 40 CFR 136 (2017)
Draft EPA 1633
Matrix: Water (based on 0.5 L sample)
Calculated to 3 significant figures

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.597	1.25	6.40
PFPeA	2706-90-3	0.563	1.25	3.20
PFHxA	307-24-4	0.412	1.00	1.60
PFHpA	375-85-9	0.173	0.50	1.60
PFOA	335-67-1	0.290	0.75	1.60
PFNA	375-95-1	0.250	0.50	1.60
PFDA	335-76-2	0.223	0.50	1.60
PFUnA	2058-94-8	0.203	0.50	1.60
PFDoA	307-55-1	0.301	0.75	1.60
PFTrDA	72629-94-8	0.363	0.75	1.60
PFTeDA	376-06-7	0.429	1.00	1.60
PFBS	375-73-5	0.177	0.50	1.60
PFPeS	2706-91-4	0.129	0.50	1.60
PFHxS	355-46-4	0.291	0.75	1.60
PFHpS	375-92-8	0.204	0.50	1.60
PFOS	1763-23-1	0.248	0.50	1.60
PFNS	68259-12-1	0.249	0.50	1.60
PFDS	335-77-3	0.162	0.50	1.60
PFDoS	79780-39-5	0.180	0.50	1.60
4:2FTS	757124-72-4	1.32	2.75	6.40
6:2FTS	27619-97-2	1.48	3.00	6.40
8:2FTS	39108-34-4	0.916	2.00	6.40
PFOSA	754-91-6	0.188	0.50	1.60
NMeFOSA	31506-32-8	0.199	0.50	1.60
NEtFOSA	4151-50-2	0.0998	0.25	1.60
NMeFOSAA	2355-31-9	0.655	1.50	1.60
NEtFOSAA	2991-50-6	0.571	1.25	1.60
NMeFOSE	24448-09-7	1.65	3.50	16.0
NEtFOSE	1691-99-2	1.45	3.00	16.0
HFPO-DA	13252-13-6	0.748	1.50	6.40
Adona	919005-14-4	0.694	1.50	6.40
PFMPA	377-73-1	0.628	1.50	3.20
PFMBA	863090-89-5	0.600	1.25	3.20
NFDHA	151772-58-6	0.760	1.75	3.20
9Cl-PF3ONS	756426-58-1	0.699	1.50	6.40
11Cl-PF3OUdS	763051-92-9	1.09	2.25	6.40

BATTELLE
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Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFEESA	113507-82-7	0.212	0.50	3.20
3:3 FTCA	356-02-5	1.67	3.50	8.00
5:3 FTCA	914637-49-3	4.46	9.00	40.0
7:3 FTCA	812-70-4	5.22	10.50	40.0

All analytes are included on our DoD ELAP and NELAP scope of accreditation.

Analytical Transitions for PFAS in non-potable water, solid, and tissue

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	212.8 / 168.9	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 118.9
PFHpA	375-85-9	Target	363.1 / 319.0	363.1 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	512.9 / 469.0	512.9 / 219.0
PFUnA	2058-94-8	Target	563.1 / 519.0	563.1 / 269.1
PFDoA	307-55-1	Target	613.1 / 569.0	613.1 / 319.0
PFTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 168.9
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 168.9
PFBS	375-73-5	Target	298.7 / 79.9	298.9 / 98.8
PFPeS	2706-91-4	Target	349.1 / 79.9	349.1 / 98.9
PFHxS	355-46-4	Target	398.7 / 79.9	398.7 / 98.9
PFHpS	375-92-8	Target	449.0 / 79.9	449.0 / 98.9
PFOS	1763-23-1	Target	498.9 / 79.9	498.9 / 98.9
PFNS	68259-12-1	Target	548.8 / 79.9	548.8 / 98.9
PFDS	335-77-3	Target	599.0 / 79.9	599.0 / 98.9
PFDoS	79780-39-5	Target	699.1 / 79.9	699.1 / 98.9
4:2FTS	757124-72-4	Target	327.1 / 307.0	327.1 / 80.9
6:2FTS	27619-97-2	Target	427.1 / 407.0	427.1 / 80.9
8:2FTS	39108-34-4	Target	527.1 / 507.0	527.1 / 80.8
PFOSA	754-91-6	Target	498.1 / 77.9	498.1 / 478.0
NMeFOSA	31506-32-8	Target	511.9 / 219.0	511.9 / 169.0
NEtFOSA	4151-50-2	Target	526.0 / 219.0	526.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.1 / 419.0	570.1 / 483.0
NEtFOSAA	2991-50-6	Target	584.2 / 419.1	584.2 / 526.0
NMeFOSE	24448-09-7	Target	616.1 / 58.9	NA
NEtFOSE	1691-99-2	Target	630.0 / 58.9	NA
HFPO-DA	13252-13-6	Target	284.9 / 168.9	284.9 / 184.9
ADONA	919005-14-4	Target	376.9 / 250.9	376.9 / 84.8

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
9Cl-PF3ONS	756426-58-1	Target	530.8 / 351.0	532.8 / 353.0
11Cl-PF3OUdS	763051-92-9	Target	630.9 / 450.9	632.9 / 452.9
3:3 FTCA	356-02-5	Target	241.0 / 177.0	241.0 / 117.0
5:3 FTCA	914637-49-3	Target	341.0 / 237.1	341.0 / 217.0
7:3 FTCA	812-70-4	Target	441.0 / 316.9	441.0 / 336.9
NFDHA	151772-58-6	Target	295.0 / 201.1	295.0 / 84.9
PFEESA	113507-82-7	Target	314.8 / 134.9	314.8 / 82.9
PFMPA	377-73-1	Target	229.0 / 84.9	NA
PFMBA	863090-89-5	Target	279.0 / 85.1	NA
13C4-PFBA	NA	SIS[1]	216.8 / 171.9	NA
13C5-PFPeA	NA	SIS[1]	268.3 / 223.0	NA
13C5-PFHxA	NA	SIS[1]	318.0 / 273.0	NA
13C4-PFHpA	NA	SIS[1]	367.1 / 322.0	NA
13C8-PFOA	NA	SIS[1]	421.1 / 376.0	NA
13C9-PFNA	NA	SIS[1]	472.1 / 427.0	NA
13C6-PFDA	NA	SIS[1]	519.1 / 474.1	NA
13C7-PFUnA	NA	SIS[1]	570.0 / 525.1	NA
13C2-PFDoA	NA	SIS[1]	615.1 / 570.0	NA
13C2-PFTeDA	NA	SIS[1]	715.2 / 670.0	NA
13C3-PFBS	NA	SIS[1]	302.1 / 79.9	NA
13C3-PFHxS	NA	SIS[1]	402.1 / 79.9	NA
13C8-PFOS	NA	SIS[1]	507.1 / 79.9	NA
13C2-4:2FTS	NA	SIS[1]	329.1 / 80.9	NA
13C2-6:2FTS	NA	SIS[1]	429.1 / 80.9	NA
13C2-8:2FTS	NA	SIS[1]	529.1 / 80.9	NA
13C8-PFOSA	NA	SIS[1]	506.1 / 77.8	NA
d3-MeFOSA	NA	SIS[1]	515.0 / 219.0	NA
d5-EtFOSA	NA	SIS[1]	531.1 / 219.0	NA
d3-MeFOSAA	NA	SIS[1]	573.2 / 419.0	NA
d5-EtFOSAA	NA	SIS[1]	589.2 / 419.0	NA
d7-MeFOSE	NA	SIS[1]	623.2 / 58.9	NA

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
d9-EtFOSE	NA	SIS[1]	639.2 / 58.9	NA
13C3-HFPO-DA	NA	SIS[1]	286.9 / 168.9	NA
13C3-PFBA	NA	IS[2]	216.0 / 172.0	NA
13C2-PFHxA	NA	IS[2]	315.1 / 270.0	NA
13C4-PFOA	NA	IS[2]	417.1 / 172.0	NA
13C5-PFNA	NA	IS[2]	468.0 / 423.0	NA
13C2-PFDA	NA	IS[2]	515.1 / 470.1	NA
18O2-PFHxS	NA	IS[2]	403.0 / 103.0	NA
13C4-PFOS	NA	IS[2]	502.8 / 79.9	NA
$^{13}C_4$-PFOS	NA	IS[2]	503.0 / 99.0	NA

[1] – extracted internal standard (surrogate)
[2] – non-extracted internal standard

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BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00000 1

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

SOP Numbers (see workplan for modifications)

Extract/AnalyzeSOP No. 5-381

This Batch Contains The Following Samples:			
DQ777PB-FS	C2704-FS	C2710-FS	C2714-FS
DQ778LCS-FS	C2705-FS	C2710MS-FS	C2715-FS
DQ779LCS-FS	C2706-FS	C2710MSD-FS	
C2701-FS	C2707-FS	C2711-FS	
C2702-FS	C2708-FS	C2712-FS	
C2703-FS	C2709-FS	C2713-FS	

Laboratory Preparation Records

COMPLETE AND VALIDATED

Prep Task Leader: Paul Fuhry

Approved By:	Date	Initials
Kevin Bailey	03/25/2024	KB

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It can be done

BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	Description
DQ777PB-FS	Procedural Blank
DQ778LCS-FS	Laboratory Control Sample
DQ779LCS-FS	Laboratory Control Sample
C2701-FS	WGNA-FB-20240320
C2702-FS	WGNA-SW-19-20240320
C2703-FS	WGNA-SW-17-20240320
C2704-FS	WGNA-SW-28-20240320
C2705-FS	WGNA-SW-14-20240320
C2706-FS	WGNA-SW-63-20240320
C2707-FS	WGNA-SW-10-20240320
C2708-FS	WGNA-SW-05-20240320
C2709-FS	WGNA-SW-04-20240320
C2710-FS	WGNA-SW-64-20240320
C2710MS-FS	Matrix Spike of WGNA-SW-64-20240320
C2710MSD-FS	Matrix Spike Duplicate of WGNA-SW-64-20240320
C2711-FS	WGNA-SW-03-20240320
C2712-FS	WGNA-SW-01-20240320
C2713-FS	WGNA-SW-52-20240320
C2714-FS	WGNA-SW-DUP-03-20240320
C2715-FS	WGNA-SW-DUP-04-20240320

Samples Assigned By: Matt Schumitz

Date : March 22, 2024
Due Date : April 11, 2024

Comments:

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BATTELLE - NORWELL OPERATIONS
SAMPLE CUSTODY LOG

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Requested On/By:	03/22/2024 PF	**Purpose:**	Sample Preparation
Relinquished On/By:	03/22/2024 CB	**Last Activity:**	Transfer

Accepted On/By:	03/22/2024 PF	**Returned On/To:**	
Stored In Facility:	Sample Preparation	**Returned To Facility:**	
Stored Until			
Stored Comment:	NA	**Returned Comment:**	NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	C2701	1	C	Consumed	NA
2	C2702	1	C	Consumed	NA
3	C2703	1	C	Consumed	NA
4	C2704	1	C	Consumed	NA
5	C2705	1	C	Consumed	NA
6	C2706	1	C	Consumed	NA
7	C2707	1	C	Consumed	NA
8	C2708	1	C	Consumed	NA
9	C2709	1	C	Consumed	NA
10	C2710	1	C	Consumed	NA
11	C2711	1	C	Consumed	NA
12	C2712	1	C	Consumed	NA
13	C2713	1	C	Consumed	NA
14	C2714	1	C	Consumed	NA
15	C2715	1	C	Consumed	NA

Total Samples 15 * "C" = Consumed Container

BATTELLE
It can be done

BATTELLE - NORWELL OPERATIONS
SAMPLE VOLUME FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213

CTO-WE04 Willow Grove WR-125

Sample ID	Bottles	*	Calc. By Wt.	pH Check	Initial Wt. (g)	Empty Wt. (g)	Volume (mL)	Vol. Recorded
DQ777PB-FS	NA	--	Yes	Valid	516.94	42.37	475.0	NA
DQ778LCS-FS	NA	--	Yes	Valid	515.81	42.31	474.0	NA
DQ779LCS-FS	NA	--	Yes	Valid	516.62	42.21	474.0	NA
C2701-FS	1	C	Yes	Valid	527.35	43.13	484.0	NA
C2702-FS	1	C	Yes	Valid	543.47	44.36	499.0	NA
C2703-FS	1	C	Yes	Valid	533.9	43.67	490.0	NA
C2704-FS	1	C	Yes	Valid	557.74	43.97	514.0	NA
C2705-FS	1	C	Yes	Valid	572.42	43.99	528.0	NA
C2706-FS	1	C	Yes	Valid	566.07	43.72	522.0	NA
C2707-FS	1	C	Yes	Valid	585.17	43.87	541.0	NA
C2708-FS	1	C	Yes	Valid	566.25	43.68	523.0	NA
C2709-FS	1	C	Yes	Valid	599.94	43.02	557.0	NA
C2710-FS	1	C	Yes	Valid	551.26	44.09	507.0	NA
C2710MS-FS	2	C	Yes	Valid	555.95	43.75	512.0	NA
C2710MSD-FS	3	C	Yes	Valid	592.7	43.42	549.0	NA
C2711-FS	1	C	Yes	Valid	595.68	43.45	552.0	NA
C2712-FS	1	C	Yes	Valid	520.3	44.14	476.0	NA
C2713-FS	1	C	Yes	Valid	534.36	43.32	491.0	NA
C2714-FS	1	C	Yes	Valid	571.71	43.86	528.0	NA
C2715-FS	1	C	Yes	Valid	584.21	42.78	541.0	NA

Balance Information:

Initial Wt. Balance:	Initial Wt Date/Initials:	Empty Wt. Balance:	Empty Wt Date/Initials:
BAL-009	03/22/24 PF	BAL-009	03/25/24 KB

Calc. by Wt. - if yes, volume is calculated as the total weight of the bottle - empty weight, assuming a Density of 1, value rounded to nearest whole number. If yes, Vol. Recorded Date/Initials will be "NA"

* - "C" = Sample is Consumed

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DQ777PB-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
DQ778LCS-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
DQ778LCS-FS	MD11	LCS/MS	1	100	03/22/24 PF	OF	NA
DQ779LCS-FS	MC47	LCS/MS	1	80	03/22/24 PF	OF	NA
DQ779LCS-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2701-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2702-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2703-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2704-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2705-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2706-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2707-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2708-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2709-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2710-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2710MS-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2710MS-FS	MD11	LCS/MS	1	100	03/22/24 PF	OF	NA
C2710MSD-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2710MSD-FS	MD11	LCS/MS	1	100	03/22/24 PF	OF	NA
C2711-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2712-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2713-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2714-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA
C2715-FS	MD09	SIS	1	50	03/22/24 PF	OF	NA

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MC47	Pipette	B814659662
MD09	Pipette	B814659662
MD11	Pipette	B814659662

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment
DQ777PB-FS	03/22/24 PF	NA	NA	NA
DQ778LCS-FS	03/22/24 PF	NA	NA	NA
DQ779LCS-FS	03/22/24 PF	NA	NA	NA
C2701-FS	03/22/24 PF	NA	NA	NA
C2702-FS	03/22/24 PF	NA	NA	NA
C2703-FS	03/22/24 PF	NA	NA	NA
C2704-FS	03/22/24 PF	NA	NA	NA
C2705-FS	03/22/24 PF	NA	NA	NA
C2706-FS	03/22/24 PF	NA	NA	NA
C2707-FS	03/22/24 PF	NA	NA	NA
C2708-FS	03/22/24 PF	NA	NA	NA
C2709-FS	03/22/24 PF	NA	NA	NA
C2710-FS	03/22/24 PF	NA	NA	NA
C2710MS-FS	03/22/24 PF	NA	NA	NA
C2710MSD-FS	03/22/24 PF	NA	NA	NA
C2711-FS	03/22/24 PF	NA	NA	NA
C2712-FS	03/22/24 PF	NA	NA	NA
C2713-FS	03/22/24 PF	NA	NA	NA
C2714-FS	03/22/24 PF	NA	NA	NA
C2715-FS	03/22/24 PF	NA	NA	NA

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
Carbon Columns (Strata PFAS Wax/GCB)	230825-01	08/25/28	M05773/1260	NA	
Silanized Glass Wool	231003-03	10/03/28	171936	NA	
1% NH3OH in Methanol	RP-240322-4	03/22/24	232699	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
1% NH3OH in Methanol	RP-240322-4	03/22/24	A0452523	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
0.3 M Formic Acid	RP-240322-5	03/22/24	A0445104	377 uL of formic acid brought up to 100 mL with water	
1:1 0.1 M Formic Acid	RP-240322-6	03/22/24	A0445104	1132 uL of formic acid brought up to 100 mL with water, then brought up to 200 mL with MeOH	
1:1 0.1 M Formic Acid	RP-240322-6	03/22/24	232699	1132 uL of formic acid brought up to 100 mL with water, then brought up to 200 mL with MeOH	

Solvents/Reagents:

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DQ777PB-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
DQ778LCS-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
DQ779LCS-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2701-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2702-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2703-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2704-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2705-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2706-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2707-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2708-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2709-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2710-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2710MS-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2710MSD-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2711-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2712-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2713-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF
C2714-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00000
1

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
C2715-FS(0)	4950	50	MD10	50	2	5000	1.000	03/22/24 PF	OF

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MD10	Pipette	B814659662

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DQ777PB-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
DQ778LCS-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
DQ779LCS-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2701-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2702-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2703-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2704-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2705-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2706-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2707-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2708-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2709-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2710-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2710MS-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
C2710MSD-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2711-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2712-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2713-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2714-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF
C2715-FS	0	--	3/22/2024 10:23:00 AM	NA		NA	NA	1.000	1.000	03/22/24 PF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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BATTELLE - NORWELL OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

Purpose:	LC-MS/MS TRANSFER	**Last Activity:**	Prep->Inst
Relinquished On/By:	Mar 22 2024 2:51PM PF	**Received On/By:**	Mar 22 2024 2:51PM KB
Relinquished From:	Sample Preparation: NA	**Received Location:**	LC Laboratory #1: NA
Relinquish Comment:	NA	**Received Comment:**	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	DQ777PB-FS(0)	5000	1	Intact	NA
2	DQ778LCS-FS(0)	5000	1	Intact	NA
3	DQ779LCS-FS(0)	5000	1	Intact	NA
4	C2701-FS(0)	5000	1	Intact	NA
5	C2702-FS(0)	5000	1	Intact	NA
6	C2703-FS(0)	5000	1	Intact	NA
7	C2704-FS(0)	5000	1	Intact	NA
8	C2705-FS(0)	5000	1	Intact	NA
9	C2706-FS(0)	5000	1	Intact	NA
10	C2707-FS(0)	5000	1	Intact	NA
11	C2708-FS(0)	5000	1	Intact	NA
12	C2709-FS(0)	5000	1	Intact	NA
13	C2710-FS(0)	5000	1	Intact	NA
14	C2710MS-FS(0)	5000	1	Intact	NA
15	C2710MSD-FS(0)	5000	1	Intact	NA
16	C2711-FS(0)	5000	1	Intact	NA
17	C2712-FS(0)	5000	1	Intact	NA
18	C2713-FS(0)	5000	1	Intact	NA
19	C2714-FS(0)	5000	1	Intact	NA
20	C2715-FS(0)	5000	1	Intact	NA

Total Extracts: 20

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BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0213
CTO-WE04 Willow Grove WR-125
QC, SW

Sample ID:	Comment:	Date/Initials:
DQ777PB-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:02 PM	03/22/24 PF
DQ778LCS-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 1:26 PM	03/22/24 PF
DQ779LCS-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:20 PM	03/22/24 PF
C2701-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:11 PM	03/22/24 PF
C2702-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:38 PM	03/22/24 PF
C2703-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:30 PM	03/22/24 PF
C2704-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:35 PM	03/22/24 PF
C2705-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:32 PM	03/22/24 PF
C2706-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 2:24 PM	03/22/24 PF
C2707-FS	Extraction started at 10:23 AM, on manifold 2, and ended at 1:53 PM	03/22/24 PF
C2708-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 1:48 PM	03/22/24 PF
C2709-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:15 PM	03/22/24 PF
C2710-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:00 PM	03/22/24 PF
C2710MS-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:07 PM	03/22/24 PF
C2710MSD-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:15 PM	03/22/24 PF
C2711-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 1:24 PM	03/22/24 PF
C2712-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:26 PM	03/22/24 PF
C2713-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 1:48 PM	03/22/24 PF
C2714-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 1:49 PM	03/22/24 PF
C2715-FS	Extraction started at 10:23 AM, on manifold 7, and ended at 2:21 PM	03/22/24 PF

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BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.000001

24-0213

CTO-WE04 Willow Grove WR-125

QC, SW

Entered By:	**On:**

Task Leader Approval:	**On:**
SupervisorApproval:	**On:**
PM Approval:	**On:**

Analyte Name	PFBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	212.8 / 168.9	**Result Table**	24-0213
Internal Standard	13C4-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.11796 x (std. dev. = 0.05412) (weighting: None) RSD: 4.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1874	0.801	0.851	106.2
4	MC60	L2	True	1.1396	1.999	2.038	101.9
5	MC61	L3	True	1.1278	5.004	5.048	100.9
6	MC62	L4	True	1.1134	9.993	9.952	99.6
7	MC63	L5	True	1.0367	19.990	18.536	92.7
8	MC64	L6	True	1.0583	49.997	47.328	94.7
9	MC65	L7	True	1.1627	250.000	260.001	104.0

Analyte Name	PFPeA	**Data File**	AG_03222024_1633.wiff
MRM Transition	263.0 / 219.0	**Result Table**	24-0213
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.46900 x (std. dev. = 0.06316) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4918	0.400	0.406	101.6
4	MC60	L2	True	1.5380	0.999	1.046	104.7
5	MC61	L3	True	1.4897	2.502	2.537	101.4
6	MC62	L4	True	1.4752	4.996	5.017	100.4
7	MC63	L5	True	1.3512	9.995	9.194	92.0
8	MC64	L6	True	1.4221	24.998	24.199	96.8
9	MC65	L7	True	1.5150	125.000	128.916	103.1

Analyte Name	PFHxA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	313.0 / 269.0	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.00927 x (std. dev. = 0.04628) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0724	0.200	0.213	106.3
4	MC60	L2	True	1.0529	0.500	0.522	104.3
5	MC61	L3	True	1.0470	1.251	1.298	103.7
6	MC62	L4	True	0.9617	2.498	2.380	95.3
7	MC63	L5	True	0.9750	4.998	4.828	96.6
8	MC64	L6	True	0.9696	12.499	12.007	96.1
9	MC65	L7	True	0.9864	62.500	61.082	97.7

Analyte Name	PFHxA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	313.0 / 118.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06412 x (std. dev. = 0.00862) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0832	0.200	0.260	129.8
4	MC60	L2	True	0.0614	0.500	0.479	95.8
5	MC61	L3	True	0.0637	1.251	1.243	99.3
6	MC62	L4	True	0.0628	2.498	2.447	98.0
7	MC63	L5	True	0.0592	4.998	4.615	92.3
8	MC64	L6	True	0.0600	12.499	11.687	93.5
9	MC65	L7	True	0.0586	62.500	57.088	91.3

Analyte Name	PFHpA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	363.1 / 319.0	**Result Table**	24-0213
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99570 x (std. dev. = 0.04235) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0603	0.200	0.213	106.5
4	MC60	L2	True	1.0055	0.500	0.505	101.0
5	MC61	L3	True	0.9983	1.251	1.254	100.3
6	MC62	L4	True	0.9657	2.498	2.423	97.0
7	MC63	L5	True	0.9335	4.998	4.686	93.8
8	MC64	L6	True	0.9751	12.499	12.240	97.9
9	MC65	L7	True	1.0316	62.500	64.751	103.6

Analyte Name	PFHpA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	363.1 / 169.0	**Result Table**	24-0213
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.02120 x (std. dev. = 0.00237) (weighting: None) RSD: 11.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0202	0.200	0.191	95.5
4	MC60	L2	True	0.0188	0.500	0.442	88.5
5	MC61	L3	True	0.0250	1.251	1.478	118.1
6	MC62	L4	True	0.0222	2.498	2.617	104.8
7	MC63	L5	True	0.0188	4.998	4.433	88.7
8	MC64	L6	True	0.0201	12.499	11.868	95.0
9	MC65	L7	True	0.0232	62.500	68.444	109.5

Analyte Name	PFOA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	413.0 / 369.0	**Result Table**	24-0213
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.88761 x (std. dev. = 0.07467) (weighting: None) RSD: 8.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0230	0.200	0.231	115.3
4	MC60	L2	True	0.9025	0.500	0.508	101.7
5	MC61	L3	True	0.8975	1.253	1.267	101.1
6	MC62	L4	True	0.8517	2.501	2.400	96.0
7	MC63	L5	True	0.7892	5.003	4.448	88.9
8	MC64	L6	True	0.8330	12.514	11.743	93.8
9	MC65	L7	True	0.9165	62.575	64.613	103.3

Analyte Name	PFOA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	413.0 / 169.0	**Result Table**	24-0213
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09827 x (std. dev. = 0.00500) (weighting: None) RSD: 5.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0922	0.200	0.188	93.8
4	MC60	L2	True	0.1018	0.500	0.518	103.6
5	MC61	L3	True	0.0977	1.253	1.245	99.4
6	MC62	L4	True	0.0997	2.501	2.538	101.5
7	MC63	L5	True	0.0931	5.003	4.742	94.8
8	MC64	L6	True	0.0968	12.514	12.325	98.5
9	MC65	L7	True	0.1066	62.575	67.870	108.5

Analyte Name	PFNA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	463.0 / 419.0	**Result Table**	24-0213
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.54267 x (std. dev. = 0.03046) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5622	0.200	0.207	103.6
4	MC60	L2	True	0.5786	0.499	0.532	106.6
5	MC61	L3	True	0.5519	1.250	1.271	101.7
6	MC62	L4	True	0.5111	2.496	2.351	94.2
7	MC63	L5	True	0.4913	4.994	4.521	90.5
8	MC64	L6	True	0.5540	12.489	12.750	102.1
9	MC65	L7	True	0.5495	62.450	63.240	101.3

Analyte Name	PFNA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	463.0 / 219.0	**Result Table**	24-0213
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29911 x (std. dev. = 0.02842) (weighting: None) RSD: 9.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2934	0.200	0.196	98.1
4	MC60	L2	True	0.3511	0.499	0.586	117.4
5	MC61	L3	True	0.3032	1.250	1.267	101.4
6	MC62	L4	True	0.2658	2.496	2.218	88.9
7	MC63	L5	True	0.2698	4.994	4.505	90.2
8	MC64	L6	True	0.3004	12.489	12.543	100.4
9	MC65	L7	True	0.3100	62.450	64.732	103.7

Analyte Name	PFDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	512.9 / 469.0	**Result Table**	24-0213
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.69089 x (std. dev. = 0.04569) (weighting: None) RSD: 6.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7655	0.200	0.222	110.8
4	MC60	L2	True	0.6722	0.500	0.486	97.3
5	MC61	L3	True	0.7342	1.251	1.329	106.3
6	MC62	L4	True	0.6936	2.498	2.508	100.4
7	MC63	L5	True	0.6299	4.998	4.557	91.2
8	MC64	L6	True	0.6612	12.499	11.961	95.7
9	MC65	L7	True	0.6797	62.500	61.486	98.4

Analyte Name	PFDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	512.9 / 219.0	**Result Table**	24-0213
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.03620 x (std. dev. = 0.00485) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0282	0.200	0.156	77.8
4	MC60	L2	True	0.0376	0.500	0.520	103.9
5	MC61	L3	True	0.0444	1.251	1.535	122.7
6	MC62	L4	True	0.0336	2.498	2.319	92.8
7	MC63	L5	True	0.0364	4.998	5.022	100.5
8	MC64	L6	True	0.0363	12.499	12.530	100.3
9	MC65	L7	True	0.0369	62.500	63.757	102.0

Analyte Name	PFUnA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	563.1 / 519.0	**Result Table**	24-0213
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.24542 x (std. dev. = 0.07084) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2627	0.200	0.203	101.4
4	MC60	L2	True	1.2830	0.500	0.515	103.0
5	MC61	L3	True	1.3632	1.251	1.369	109.5
6	MC62	L4	True	1.2573	2.498	2.522	101.0
7	MC63	L5	True	1.2249	4.998	4.916	98.4
8	MC64	L6	True	1.1799	12.499	11.842	94.7
9	MC65	L7	True	1.1470	62.500	57.561	92.1

Analyte Name	PFUnA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	563.1 / 269.1	**Result Table**	24-0213
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.05997 x (std. dev. = 0.00727) (weighting: None) RSD: 12.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0739	0.200	0.246	123.2
4	MC60	L2	True	0.0518	0.500	0.432	86.3
5	MC61	L3	True	0.0637	1.251	1.329	106.2
6	MC62	L4	True	0.0610	2.498	2.541	101.7
7	MC63	L5	True	0.0577	4.998	4.810	96.2
8	MC64	L6	True	0.0569	12.499	11.868	95.0
9	MC65	L7	True	0.0548	62.500	57.084	91.3

Analyte Name	PFDoA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	613.1 / 569.0	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.43132 x (std. dev. = 0.02987) (weighting: None) RSD: 6.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4465	0.200	0.207	103.5
4	MC60	L2	True	0.4702	0.500	0.545	109.0
5	MC61	L3	True	0.4315	1.251	1.252	100.1
6	MC62	L4	True	0.4583	2.498	2.654	106.3
7	MC63	L5	True	0.4094	4.998	4.744	94.9
8	MC64	L6	True	0.3837	12.499	11.118	89.0
9	MC65	L7	True	0.4197	62.500	60.813	97.3

Analyte Name	PFDoA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	613.1 / 319.0	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.12916 x (std. dev. = 0.00871) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1330	0.200	0.206	103.0
4	MC60	L2	True	0.1406	0.500	0.544	108.9
5	MC61	L3	True	0.1268	1.251	1.228	98.2
6	MC62	L4	True	0.1389	2.498	2.687	107.6
7	MC63	L5	True	0.1251	4.998	4.840	96.8
8	MC64	L6	True	0.1170	12.499	11.322	90.6
9	MC65	L7	True	0.1226	62.500	59.342	95.0

Analyte Name	PFTrDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	663.0 / 619.0	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.12785 x (std. dev. = 0.12475) (weighting: None) RSD: 11.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2882	0.200	0.228	114.2
4	MC60	L2	True	1.2510	0.500	0.555	110.9
5	MC61	L3	True	1.1610	1.251	1.288	102.9
6	MC62	L4	True	1.1831	2.498	2.620	104.9
7	MC63	L5	True	1.0362	4.998	4.592	91.9
8	MC64	L6	True	1.0061	12.499	11.150	89.2
9	MC65	L7	True	0.9693	62.500	53.713	85.9

Analyte Name	PFTrDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	663.0 / 168.9	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06798 x (std. dev. = 0.01321) (weighting: None) RSD: 19.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0945	0.200	0.278	139.0
4	MC60	L2	True	0.0589	0.500	0.434	86.7
5	MC61	L3	True	0.0757	1.251	1.393	111.4
6	MC62	L4	True	0.0673	2.498	2.475	99.1
7	MC63	L5	True	0.0607	4.998	4.466	89.4
8	MC64	L6	True	0.0599	12.499	11.014	88.1
9	MC65	L7	True	0.0587	62.500	53.999	86.4

Analyte Name	PFTeDA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	713.0 / 669.0	**Result Table**	24-0213
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.64200 x (std. dev. = 0.09478) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.7955	0.200	0.219	109.4
4	MC60	L2	True	1.6983	0.500	0.517	103.4
5	MC61	L3	True	1.5518	1.251	1.182	94.5
6	MC62	L4	True	1.6994	2.498	2.585	103.5
7	MC63	L5	True	1.6256	4.998	4.948	99.0
8	MC64	L6	True	1.5974	12.499	12.160	97.3
9	MC65	L7	True	1.5260	62.500	58.083	92.9

Analyte Name	PFTeDA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	713.0 / 168.9	**Result Table**	24-0213
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09390 x (std. dev. = 0.01487) (weighting: None) RSD: 15.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1254	0.200	0.267	133.6
4	MC60	L2	True	0.0859	0.500	0.458	91.5
5	MC61	L3	True	0.0837	1.251	1.114	89.1
6	MC62	L4	True	0.1000	2.498	2.661	106.5
7	MC63	L5	True	0.0870	4.998	4.630	92.6
8	MC64	L6	True	0.0887	12.499	11.807	94.5
9	MC65	L7	True	0.0866	62.500	57.647	92.2

Analyte Name	PFBS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	298.7 / 79.9	**Result Table**	24-0213
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.46804 x (std. dev. = 0.01887) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4808	0.178	0.183	102.7
4	MC60	L2	True	0.4753	0.444	0.451	101.6
5	MC61	L3	True	0.4507	1.111	1.070	96.3
6	MC62	L4	True	0.4584	2.218	2.172	97.9
7	MC63	L5	True	0.4396	4.438	4.169	93.9
8	MC64	L6	True	0.4789	11.099	11.357	102.3
9	MC65	L7	True	0.4926	55.500	58.407	105.2

Analyte Name	PFBS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	298.9 / 98.8	**Result Table**	24-0213
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20778 x (std. dev. = 0.00766) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2164	0.178	0.185	104.1
4	MC60	L2	True	0.2087	0.444	0.446	100.5
5	MC61	L3	True	0.2130	1.111	1.139	102.5
6	MC62	L4	True	0.2106	2.218	2.248	101.4
7	MC63	L5	True	0.1963	4.438	4.193	94.5
8	MC64	L6	True	0.1979	11.099	10.572	95.3
9	MC65	L7	True	0.2116	55.500	56.508	101.8

Analyte Name	PFPeS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	349.1 / 79.9	**Result Table**	24-0213
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.52132 x (std. dev. = 0.03470) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5683	0.188	0.205	109.0
4	MC60	L2	True	0.5351	0.470	0.482	102.7
5	MC61	L3	True	0.5535	1.176	1.249	106.2
6	MC62	L4	True	0.5236	2.348	2.358	100.4
7	MC63	L5	True	0.4937	4.698	4.449	94.7
8	MC64	L6	True	0.5066	11.749	11.418	97.2
9	MC65	L7	True	0.4684	58.750	52.782	89.8

Analyte Name	PFPeS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	349.1 / 98.9	**Result Table**	24-0213
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22143 x (std. dev. = 0.02437) (weighting: None) RSD: 11.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2437	0.188	0.207	110.1
4	MC60	L2	True	0.2589	0.470	0.550	116.9
5	MC61	L3	True	0.2182	1.176	1.159	98.6
6	MC62	L4	True	0.2274	2.348	2.411	102.7
7	MC63	L5	True	0.2080	4.698	4.413	93.9
8	MC64	L6	True	0.2077	11.749	11.019	93.8
9	MC65	L7	True	0.1861	58.750	49.380	84.1

Analyte Name	PFHxS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	398.7 / 79.9	**Result Table**	24-0213
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84682 x (std. dev. = 0.06814) (weighting: None) RSD: 8.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9515	0.183	0.206	112.4
4	MC60	L2	True	0.8419	0.456	0.453	99.4
5	MC61	L3	True	0.8119	1.141	1.094	95.9
6	MC62	L4	True	0.8365	2.279	2.251	98.8
7	MC63	L5	True	0.7554	4.560	4.068	89.2
8	MC64	L6	True	0.8083	11.404	10.885	95.5
9	MC65	L7	True	0.9223	57.025	62.110	108.9

Analyte Name	PFHxS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	398.7 / 98.9	**Result Table**	24-0213
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29389 x (std. dev. = 0.03150) (weighting: None) RSD: 10.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3517	0.183	0.219	119.7
4	MC60	L2	True	0.3079	0.456	0.478	104.8
5	MC61	L3	True	0.2877	1.141	1.117	97.9
6	MC62	L4	True	0.2842	2.279	2.204	96.7
7	MC63	L5	True	0.2549	4.560	3.955	86.7
8	MC64	L6	True	0.2679	11.404	10.395	91.2
9	MC65	L7	True	0.3030	57.025	58.797	103.1

Analyte Name	PFHpS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	449.0 / 79.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.37159 x (std. dev. = 0.08699) (weighting: None) RSD: 6.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4044	0.191	0.196	102.4
4	MC60	L2	True	1.4992	0.476	0.520	109.3
5	MC61	L3	True	1.3582	1.191	1.179	99.0
6	MC62	L4	True	1.4303	2.378	2.480	104.3
7	MC63	L5	True	1.3747	4.758	4.769	100.2
8	MC64	L6	True	1.3035	11.899	11.308	95.0
9	MC65	L7	True	1.2310	59.500	53.399	89.8

Analyte Name	PFHpS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	449.0 / 98.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.41050 x (std. dev. = 0.03321) (weighting: None) RSD: 8.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4385	0.191	0.204	106.8
4	MC60	L2	True	0.4606	0.476	0.534	112.2
5	MC61	L3	True	0.4105	1.191	1.191	100.0
6	MC62	L4	True	0.4235	2.378	2.453	103.2
7	MC63	L5	True	0.3870	4.758	4.486	94.3
8	MC64	L6	True	0.3894	11.899	11.288	94.9
9	MC65	L7	True	0.3640	59.500	52.766	88.7

Analyte Name	PFOS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.9 / 79.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.30130 x (std. dev. = 0.09609) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4370	0.186	0.205	110.4
4	MC60	L2	True	1.4054	0.464	0.501	108.0
5	MC61	L3	True	1.3015	1.161	1.161	100.0
6	MC62	L4	True	1.2321	2.318	2.195	94.7
7	MC63	L5	True	1.1839	4.638	4.219	91.0
8	MC64	L6	True	1.2192	11.599	10.867	93.7
9	MC65	L7	True	1.3300	58.000	59.278	102.2

Analyte Name	PFOS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.9 / 98.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26749 x (std. dev. = 0.01866) (weighting: None) RSD: 7.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2978	0.186	0.207	111.3
4	MC60	L2	True	0.2867	0.464	0.497	107.2
5	MC61	L3	True	0.2608	1.161	1.132	97.5
6	MC62	L4	True	0.2425	2.318	2.101	90.7
7	MC63	L5	True	0.2587	4.638	4.486	96.7
8	MC64	L6	True	0.2656	11.599	11.517	99.3
9	MC65	L7	True	0.2603	58.000	56.441	97.3

Analyte Name	PFNS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	548.8 / 79.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.65053 x (std. dev. = 0.04336) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.6826	0.192	0.201	104.9
4	MC60	L2	True	0.7293	0.480	0.538	112.1
5	MC61	L3	True	0.6484	1.201	1.197	99.7
6	MC62	L4	True	0.6206	2.398	2.288	95.4
7	MC63	L5	True	0.6417	4.798	4.733	98.7
8	MC64	L6	True	0.5979	11.999	11.028	91.9
9	MC65	L7	True	0.6332	60.000	58.399	97.3

Analyte Name	PFNS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	548.8 / 98.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.12967 x (std. dev. = 0.00726) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1198	0.192	0.177	92.4
4	MC60	L2	True	0.1258	0.480	0.466	97.0
5	MC61	L3	True	0.1382	1.201	1.280	106.6
6	MC62	L4	True	0.1345	2.398	2.488	103.8
7	MC63	L5	True	0.1351	4.798	4.998	104.2
8	MC64	L6	True	0.1214	11.999	11.235	93.6
9	MC65	L7	True	0.1329	60.000	61.493	102.5

Analyte Name	PFDS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	599.0 / 79.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.94080 x (std. dev. = 0.05232) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9836	0.193	0.202	104.6
4	MC60	L2	True	1.0195	0.482	0.522	108.4
5	MC61	L3	True	0.9536	1.206	1.222	101.4
6	MC62	L4	True	0.9232	2.408	2.363	98.1
7	MC63	L5	True	0.9445	4.818	4.837	100.4
8	MC64	L6	True	0.8988	12.049	11.512	95.5
9	MC65	L7	True	0.8624	60.250	55.226	91.7

Analyte Name	PFDS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	599.0 / 98.9	**Result Table**	24-0213
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26244 x (std. dev. = 0.02001) (weighting: None) RSD: 7.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2945	0.193	0.217	112.2
4	MC60	L2	True	0.2754	0.482	0.506	105.0
5	MC61	L3	True	0.2721	1.206	1.250	103.7
6	MC62	L4	True	0.2515	2.408	2.308	95.8
7	MC63	L5	True	0.2583	4.818	4.742	98.4
8	MC64	L6	True	0.2523	12.049	11.584	96.1
9	MC65	L7	True	0.2329	60.250	53.474	88.8

Analyte Name	PFDoS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	699.1 / 79.9	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.02188 x (std. dev. = 0.09000) (weighting: None) RSD: 8.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1392	0.194	0.216	111.5
4	MC60	L2	True	1.0432	0.484	0.494	102.1
5	MC61	L3	True	1.0034	1.211	1.189	98.2
6	MC62	L4	True	1.1299	2.418	2.674	110.6
7	MC63	L5	True	0.9267	4.838	4.387	90.7
8	MC64	L6	True	0.9082	12.099	10.753	88.9
9	MC65	L7	True	1.0025	60.500	59.352	98.1

Analyte Name	PFDoS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	699.1 / 98.9	**Result Table**	24-0213
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.30658 x (std. dev. = 0.02619) (weighting: None) RSD: 8.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3309	0.194	0.209	107.9
4	MC60	L2	True	0.3203	0.484	0.506	104.5
5	MC61	L3	True	0.3021	1.211	1.193	98.6
6	MC62	L4	True	0.3454	2.418	2.724	112.7
7	MC63	L5	True	0.2781	4.838	4.389	90.7
8	MC64	L6	True	0.2809	12.099	11.087	91.6
9	MC65	L7	True	0.2882	60.500	56.870	94.0

Analyte Name	4:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	327.1 / 307.0	**Result Table**	24-0213
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.36048 x (std. dev. = 0.02628) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.3783	0.750	0.787	105.0
4	MC60	L2	True	0.3463	1.873	1.799	96.1
5	MC61	L3	True	0.3793	4.689	4.934	105.2
6	MC62	L4	True	0.3955	9.363	10.273	109.7
7	MC63	L5	True	0.3390	18.731	17.613	94.0
8	MC64	L6	True	0.3640	46.847	47.307	101.0
9	MC65	L7	True	0.3209	234.250	208.537	89.0

Analyte Name	4:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	327.1 / 80.9	**Result Table**	24-0213
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.06554 x (std. dev. = 0.06478) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1209	0.750	0.789	105.2
4	MC60	L2	True	1.0267	1.873	1.805	96.4
5	MC61	L3	True	1.0928	4.689	4.809	102.6
6	MC62	L4	True	1.1296	9.363	9.926	106.0
7	MC63	L5	True	1.0556	18.731	18.556	99.1
8	MC64	L6	True	1.0903	46.847	47.934	102.3
9	MC65	L7	True	0.9429	234.250	207.287	88.5

Analyte Name	6:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	427.1 / 407.0	**Result Table**	24-0213
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.79437 x (std. dev. = 0.18821) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.7830	0.762	0.759	99.6
4	MC60	L2	True	2.9988	1.901	2.040	107.3
5	MC61	L3	True	2.9572	4.759	5.036	105.8
6	MC62	L4	True	2.8891	9.503	9.825	103.4
7	MC63	L5	True	2.6839	19.010	18.258	96.1
8	MC64	L6	True	2.8047	47.547	47.722	100.4
9	MC65	L7	True	2.4439	237.750	207.932	87.5

Analyte Name	6:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	427.1 / 80.9	**Result Table**	24-0213
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.06253 x (std. dev. = 0.09384) (weighting: None) RSD: 8.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1002	0.762	0.789	103.6
4	MC60	L2	True	1.2350	1.901	2.210	116.2
5	MC61	L3	True	0.9951	4.759	4.457	93.7
6	MC62	L4	True	1.0606	9.503	9.486	99.8
7	MC63	L5	True	1.0114	19.010	18.095	95.2
8	MC64	L6	True	1.0901	47.547	48.780	102.6
9	MC65	L7	True	0.9453	237.750	211.523	89.0

Analyte Name	8:2FTS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	527.1 / 507.0	**Result Table**	24-0213
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 10.88101 x (std. dev. = 1.15074) (weighting: None) RSD: 10.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	12.4027	0.769	0.877	114.0
4	MC60	L2	True	11.1761	1.919	1.971	102.7
5	MC61	L3	True	10.7942	4.804	4.766	99.2
6	MC62	L4	True	10.6031	9.593	9.348	97.5
7	MC63	L5	True	10.9845	19.190	19.372	101.0
8	MC64	L6	True	11.5588	47.997	50.987	106.2
9	MC65	L7	True	8.6477	240.000	190.740	79.5

Analyte Name	8:2FTS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	527.1 / 80.8	**Result Table**	24-0213
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.14813 x (std. dev. = 0.20158) (weighting: None) RSD: 17.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.4264	0.769	0.955	124.2
4	MC60	L2	True	1.4132	1.919	2.362	123.1
5	MC61	L3	True	1.0917	4.804	4.568	95.1
6	MC62	L4	True	1.0269	9.593	8.580	89.5
7	MC63	L5	True	1.0940	19.190	18.284	95.3
8	MC64	L6	True	1.1079	47.997	46.316	96.5
9	MC65	L7	True	0.8768	240.000	183.273	76.4

Analyte Name	PFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.1 / 77.9	**Result Table**	24-0213
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.23561 x (std. dev. = 0.03826) (weighting: None) RSD: 3.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2499	0.201	0.203	101.2
4	MC60	L2	True	1.2099	0.502	0.492	97.9
5	MC61	L3	True	1.2202	1.256	1.240	98.8
6	MC62	L4	True	1.3124	2.508	2.664	106.2
7	MC63	L5	True	1.1972	5.017	4.861	96.9
8	MC64	L6	True	1.2407	12.549	12.601	100.4
9	MC65	L7	True	1.2190	62.750	61.907	98.7

Analyte Name	PFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	498.1 / 478.0	**Result Table**	24-0213
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00759 x (std. dev. = 0.00102) (weighting: None) RSD: 13.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0060	0.201	0.160	79.5
4	MC60	L2	True	0.0075	0.502	0.495	98.5
5	MC61	L3	True	0.0087	1.256	1.437	114.4
6	MC62	L4	True	0.0069	2.508	2.290	91.3
7	MC63	L5	True	0.0071	5.017	4.726	94.2
8	MC64	L6	True	0.0090	12.549	14.839	118.3
9	MC65	L7	True	0.0079	62.750	65.163	103.9

Analyte Name	NMeFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	511.9 / 219.0	**Result Table**	24-0213
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25006 x (std. dev. = 0.01161) (weighting: None) RSD: 4.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2629	0.200	0.210	105.1
4	MC60	L2	True	0.2548	0.500	0.509	101.9
5	MC61	L3	True	0.2519	1.252	1.261	100.8
6	MC62	L4	True	0.2643	2.499	2.642	105.7
7	MC63	L5	True	0.2359	5.000	4.716	94.3
8	MC64	L6	True	0.2436	12.504	12.180	97.4
9	MC65	L7	True	0.2370	62.525	59.255	94.8

Analyte Name	NMeFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	511.9 / 169.0	**Result Table**	24-0213
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23801 x (std. dev. = 0.01770) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2497	0.200	0.210	104.9
4	MC60	L2	True	0.2713	0.500	0.570	114.0
5	MC61	L3	True	0.2407	1.252	1.266	101.1
6	MC62	L4	True	0.2305	2.499	2.421	96.9
7	MC63	L5	True	0.2198	5.000	4.618	92.4
8	MC64	L6	True	0.2272	12.504	11.935	95.5
9	MC65	L7	True	0.2268	62.525	59.583	95.3

Analyte Name	NEtFOSA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	526.0 / 219.0	**Result Table**	24-0213
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23239 x (std. dev. = 0.00943) (weighting: None) RSD: 4.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2351	0.201	0.203	101.2
4	MC60	L2	True	0.2451	0.501	0.528	105.5
5	MC61	L3	True	0.2329	1.254	1.257	100.2
6	MC62	L4	True	0.2350	2.503	2.531	101.1
7	MC63	L5	True	0.2236	5.007	4.818	96.2
8	MC64	L6	True	0.2167	12.524	11.678	93.3
9	MC65	L7	True	0.2382	62.625	64.201	102.5

Analyte Name	NEtFOSA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	526.0 / 169.0	**Result Table**	24-0213
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21284 x (std. dev. = 0.01212) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1884	0.201	0.178	88.5
4	MC60	L2	True	0.2215	0.501	0.521	104.1
5	MC61	L3	True	0.2215	1.254	1.305	104.1
6	MC62	L4	True	0.2196	2.503	2.582	103.2
7	MC63	L5	True	0.2105	5.007	4.951	98.9
8	MC64	L6	True	0.2079	12.524	12.236	97.7
9	MC65	L7	True	0.2205	62.625	64.894	103.6

Analyte Name	NMeFOSAA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.1 / 419.0	**Result Table**	24-0213
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.92437 x (std. dev. = 0.10118) (weighting: None) RSD: 10.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0598	0.200	0.229	114.7
4	MC60	L2	True	1.0621	0.500	0.575	114.9
5	MC61	L3	True	0.8377	1.251	1.134	90.6
6	MC62	L4	True	0.8741	2.498	2.362	94.6
7	MC63	L5	True	0.8398	4.998	4.541	90.9
8	MC64	L6	True	0.8456	12.499	11.434	91.5
9	MC65	L7	True	0.9515	62.500	64.332	102.9

Analyte Name	NMeFOSAA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.1 / 483.0	**Result Table**	24-0213
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08823 x (std. dev. = 0.01806) (weighting: None) RSD: 20.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1036	0.200	0.235	117.5
4	MC60	L2	True	0.1176	0.500	0.667	133.3
5	MC61	L3	True	0.0651	1.251	0.923	73.8
6	MC62	L4	True	0.0895	2.498	2.535	101.5
7	MC63	L5	True	0.0748	4.998	4.237	84.8
8	MC64	L6	True	0.0767	12.499	10.864	86.9
9	MC65	L7	True	0.0902	62.500	63.911	102.3

Analyte Name	NEtFOSAA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	584.2 / 419.1	**Result Table**	24-0213
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99713 x (std. dev. = 0.13473) (weighting: None) RSD: 13.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2437	0.200	0.249	124.7
4	MC60	L2	True	1.0617	0.500	0.532	106.5
5	MC61	L3	True	0.9507	1.253	1.195	95.3
6	MC62	L4	True	0.9194	2.501	2.306	92.2
7	MC63	L5	True	0.8285	5.003	4.157	83.1
8	MC64	L6	True	0.9283	12.514	11.650	93.1
9	MC65	L7	True	1.0477	62.575	65.747	105.1

Analyte Name	NEtFOSAA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	584.2 / 526.0	**Result Table**	24-0213
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.43993 x (std. dev. = 0.13859) (weighting: None) RSD: 9.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.5145	0.200	0.210	105.2
4	MC60	L2	True	1.5754	0.500	0.547	109.4
5	MC61	L3	True	1.2747	1.253	1.109	88.5
6	MC62	L4	True	1.4877	2.501	2.584	103.3
7	MC63	L5	True	1.2201	5.003	4.239	84.7
8	MC64	L6	True	1.4517	12.514	12.617	100.8
9	MC65	L7	True	1.5553	62.575	67.589	108.0

Analyte Name	NMeFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	616.1 / 58.9	**Result Table**	24-0213
Internal Standard	D7-MeFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.87255 x (std. dev. = 0.03096) (weighting: None) RSD: 3.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8929	2.004	2.051	102.3
4	MC60	L2	True	0.9025	5.002	5.174	103.4
5	MC61	L3	True	0.8608	12.525	12.357	98.7
6	MC62	L4	True	0.8646	25.012	24.784	99.1
7	MC63	L5	True	0.8176	50.035	46.886	93.7
8	MC64	L6	True	0.8632	125.141	123.794	98.9
9	MC65	L7	True	0.9063	625.750	649.952	103.9

Analyte Name	NEtFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	630.0 / 58.9	**Result Table**	24-0213
Internal Standard	D9-EtFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.75111 x (std. dev. = 0.02281) (weighting: None) RSD: 3.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7474	2.008	1.998	99.5
4	MC60	L2	True	0.7662	5.012	5.113	102.0
5	MC61	L3	True	0.7714	12.550	12.890	102.7
6	MC62	L4	True	0.7615	25.062	25.408	101.4
7	MC63	L5	True	0.7213	50.135	48.143	96.0
8	MC64	L6	True	0.7186	125.391	119.959	95.7
9	MC65	L7	True	0.7713	627.000	643.873	102.7

Analyte Name	HFPO-DA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	284.9 / 168.9	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.20609 x (std. dev. = 0.06230) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2172	0.801	0.808	100.9
4	MC60	L2	True	1.2667	1.999	2.099	105.0
5	MC61	L3	True	1.2059	5.004	5.003	100.0
6	MC62	L4	True	1.2493	9.993	10.351	103.6
7	MC63	L5	True	1.2466	19.990	20.661	103.4
8	MC64	L6	True	1.0841	49.997	44.940	89.9
9	MC65	L7	True	1.1729	250.000	243.111	97.2

Analyte Name	HFPO-DA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	284.9 / 184.9	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19446 x (std. dev. = 0.01481) (weighting: None) RSD: 7.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2183	0.801	0.899	112.3
4	MC60	L2	True	0.1785	1.999	1.835	91.8
5	MC61	L3	True	0.1946	5.004	5.008	100.1
6	MC62	L4	True	0.2108	9.993	10.830	108.4
7	MC63	L5	True	0.1846	19.990	18.977	94.9
8	MC64	L6	True	0.1908	49.997	49.055	98.1
9	MC65	L7	True	0.1837	250.000	236.153	94.5

Analyte Name	ADONA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	376.9 / 250.9	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 8.16926 x (std. dev. = 0.88227) (weighting: None) RSD: 10.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	9.1219	0.757	0.845	111.7
4	MC60	L2	True	8.8642	1.889	2.050	108.5
5	MC61	L3	True	8.8373	4.729	5.116	108.2
6	MC62	L4	True	8.2055	9.443	9.485	100.4
7	MC63	L5	True	8.1123	18.891	18.759	99.3
8	MC64	L6	True	7.3349	47.247	42.422	89.8
9	MC65	L7	True	6.7088	236.250	194.013	82.1

Analyte Name	ADONA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	376.9 / 84.8	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10338 x (std. dev. = 0.01166) (weighting: None) RSD: 11.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1189	0.757	0.871	115.1
4	MC60	L2	True	0.1067	1.889	1.950	103.2
5	MC61	L3	True	0.1158	4.729	5.297	112.0
6	MC62	L4	True	0.1032	9.443	9.430	99.9
7	MC63	L5	True	0.1004	18.891	18.339	97.1
8	MC64	L6	True	0.0906	47.247	41.416	87.7
9	MC65	L7	True	0.0880	236.250	201.118	85.1

Analyte Name	9Cl-PF3ONS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	530.8 / 351.0	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.51140 x (std. dev. = 0.58176) (weighting: None) RSD: 10.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	5.5972	0.747	0.759	101.6
4	MC60	L2	True	5.0643	1.865	1.714	91.9
5	MC61	L3	True	5.6205	4.669	4.761	102.0
6	MC62	L4	True	5.0366	9.323	8.520	91.4
7	MC63	L5	True	5.4427	18.651	18.418	98.8
8	MC64	L6	True	5.1139	46.647	43.283	92.8
9	MC65	L7	True	6.7045	233.250	283.744	121.7

Analyte Name	9Cl-PF3ONS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	532.8 / 353.0	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.81166 x (std. dev. = 0.20745) (weighting: None) RSD: 11.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.8531	0.747	0.764	102.3
4	MC60	L2	True	1.6739	1.865	1.723	92.4
5	MC61	L3	True	1.7196	4.669	4.432	94.9
6	MC62	L4	True	1.6418	9.323	8.449	90.6
7	MC63	L5	True	1.7677	18.651	18.199	97.6
8	MC64	L6	True	1.7705	46.647	45.588	97.7
9	MC65	L7	True	2.2550	233.250	290.332	124.5

Analyte Name	11Cl-PF3OUdS_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	630.9 / 450.9	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.40798 x (std. dev. = 0.52274) (weighting: None) RSD: 9.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	5.9882	0.755	0.836	110.7
4	MC60	L2	True	5.3071	1.885	1.850	98.1
5	MC61	L3	True	5.8834	4.719	5.134	108.8
6	MC62	L4	True	5.7633	9.423	10.042	106.6
7	MC63	L5	True	5.3454	18.851	18.633	98.8
8	MC64	L6	True	4.5028	47.147	39.256	83.3
9	MC65	L7	True	5.0656	235.750	220.826	93.7

Analyte Name	11Cl-PF3OUdS_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	632.9 / 452.9	**Result Table**	24-0213
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.83803 x (std. dev. = 0.18478) (weighting: None) RSD: 10.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.0394	0.755	0.838	111.0
4	MC60	L2	True	1.8783	1.885	1.926	102.2
5	MC61	L3	True	2.0717	4.719	5.319	112.7
6	MC62	L4	True	1.8513	9.423	9.491	100.7
7	MC63	L5	True	1.7702	18.851	18.156	96.3
8	MC64	L6	True	1.5417	47.147	39.545	83.9
9	MC65	L7	True	1.7136	235.750	219.790	93.2

Analyte Name	3:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	241.0 / 177.0	**Result Table**	24-0213
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10069 x (std. dev. = 0.00607) (weighting: None) RSD: 6.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0988	1.001	0.982	98.2
4	MC60	L2	True	0.0976	2.498	2.421	96.9
5	MC61	L3	True	0.0960	6.255	5.961	95.3
6	MC62	L4	True	0.1028	12.491	12.756	102.1
7	MC63	L5	True	0.0971	24.988	24.097	96.4
8	MC64	L6	True	0.0990	62.496	61.442	98.3
9	MC65	L7	True	0.1135	312.500	352.360	112.8

Analyte Name	3:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	241.0 / 117.0	**Result Table**	24-0213
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00497 x (std. dev. = 3.31576e-4) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0054	1.001	1.088	108.7
4	MC60	L2	True	0.0048	2.498	2.417	96.8
5	MC61	L3	True	0.0048	6.255	6.053	96.8
6	MC62	L4	True	0.0049	12.491	12.359	98.9
7	MC63	L5	True	0.0048	24.988	24.217	96.9
8	MC64	L6	True	0.0046	62.496	57.537	92.1
9	MC65	L7	True	0.0055	312.500	343.284	109.9

Analyte Name	5:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	341.0 / 237.1	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20037 x (std. dev. = 0.00798) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1866	5.005	4.662	93.2
4	MC60	L2	True	0.1991	12.491	12.411	99.4
5	MC61	L3	True	0.2020	31.275	31.536	100.8
6	MC62	L4	True	0.1990	62.455	62.030	99.3
7	MC63	L5	True	0.2038	124.938	127.072	101.7
8	MC64	L6	True	0.2135	312.478	332.928	106.5
9	MC65	L7	True	0.1985	1562.500	1548.275	99.1

Analyte Name	5:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	341.0 / 217.0	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08808 x (std. dev. = 0.00252) (weighting: None) RSD: 2.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0832	5.005	4.726	94.4
4	MC60	L2	True	0.0906	12.491	12.844	102.8
5	MC61	L3	True	0.0873	31.275	30.995	99.1
6	MC62	L4	True	0.0886	62.455	62.824	100.6
7	MC63	L5	True	0.0897	124.938	127.233	101.8
8	MC64	L6	True	0.0900	312.478	319.226	102.2
9	MC65	L7	True	0.0872	1562.500	1547.765	99.1

Analyte Name	7:3 FTCA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	441.0 / 316.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.10643 x (std. dev. = 0.00569) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1046	5.005	4.918	98.3
4	MC60	L2	True	0.1013	12.491	11.893	95.2
5	MC61	L3	True	0.1012	31.275	29.736	95.1
6	MC62	L4	True	0.1101	62.455	64.585	103.4
7	MC63	L5	True	0.1018	124.938	119.495	95.6
8	MC64	L6	True	0.1102	312.478	323.480	103.5
9	MC65	L7	True	0.1159	1562.500	1701.038	108.9

Analyte Name	7:3 FTCA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	441.0 / 336.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20830 x (std. dev. = 0.01607) (weighting: None) RSD: 7.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1946	5.005	4.676	93.4
4	MC60	L2	True	0.1931	12.491	11.580	92.7
5	MC61	L3	True	0.1955	31.275	29.358	93.9
6	MC62	L4	True	0.2193	62.455	65.747	105.3
7	MC63	L5	True	0.2015	124.938	120.863	96.7
8	MC64	L6	True	0.2200	312.478	330.041	105.6
9	MC65	L7	True	0.2341	1562.500	1755.781	112.4

Analyte Name	NFDHA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	295.0 / 201.1	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09179 x (std. dev. = 0.00482) (weighting: None) RSD: 5.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0966	0.400	0.421	105.2
4	MC60	L2	True	0.0903	0.999	0.982	98.3
5	MC61	L3	True	0.0916	2.502	2.496	99.8
6	MC62	L4	True	0.0986	4.996	5.366	107.4
7	MC63	L5	True	0.0890	9.995	9.693	97.0
8	MC64	L6	True	0.0925	24.998	25.189	100.8
9	MC65	L7	True	0.0840	125.000	114.454	91.6

Analyte Name	NFDHA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	295.0 / 84.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.06751 x (std. dev. = 0.00587) (weighting: None) RSD: 8.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.0769	0.400	0.456	113.9
4	MC60	L2	True	0.0714	0.999	1.057	105.8
5	MC61	L3	True	0.0712	2.502	2.638	105.4
6	MC62	L4	True	0.0651	4.996	4.819	96.5
7	MC63	L5	True	0.0617	9.995	9.138	91.4
8	MC64	L6	True	0.0656	24.998	24.294	97.2
9	MC65	L7	True	0.0606	125.000	112.293	89.8

Analyte Name	PFEESA_1	**Data File**	AG_03222024_1633.wiff
MRM Transition	314.8 / 134.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.63238 x (std. dev. = 0.38141) (weighting: None) RSD: 10.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	3.6764	0.357	0.361	101.2
4	MC60	L2	True	3.9244	0.891	0.963	108.0
5	MC61	L3	True	3.9107	2.232	2.403	107.7
6	MC62	L4	True	3.8649	4.457	4.742	106.4
7	MC63	L5	True	3.6676	8.916	9.002	101.0
8	MC64	L6	True	3.5544	22.298	21.819	97.9
9	MC65	L7	True	2.8282	111.500	86.814	77.9

Analyte Name	PFEESA_2	**Data File**	AG_03222024_1633.wiff
MRM Transition	314.8 / 82.9	**Result Table**	24-0213
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.17298 x (std. dev. = 0.02144) (weighting: None) RSD: 12.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1967	0.357	0.406	113.7
4	MC60	L2	True	0.1738	0.891	0.895	100.5
5	MC61	L3	True	0.1912	2.232	2.468	110.6
6	MC62	L4	True	0.1834	4.457	4.726	106.1
7	MC63	L5	True	0.1696	8.916	8.742	98.1
8	MC64	L6	True	0.1638	22.298	21.110	94.7
9	MC65	L7	True	0.1323	111.500	85.284	76.5

Analyte Name	PFMPA	**Data File**	AG_03222024_1633.wiff
MRM Transition	229.0 / 84.9	**Result Table**	24-0213
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.15088 x (std. dev. = 0.04039) (weighting: None) RSD: 3.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.1965	0.400	0.416	104.0
4	MC60	L2	True	1.1739	0.999	1.019	102.0
5	MC61	L3	True	1.1403	2.502	2.479	99.1
6	MC62	L4	True	1.1221	4.996	4.871	97.5
7	MC63	L5	True	1.1076	9.995	9.619	96.2
8	MC64	L6	True	1.1117	24.998	24.146	96.6
9	MC65	L7	True	1.2040	125.000	130.770	104.6

Analyte Name	PFMBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	279.0 / 85.1	**Result Table**	24-0213
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.31823 x (std. dev. = 0.04716) (weighting: None) RSD: 3.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.3877	0.400	0.421	105.3
4	MC60	L2	True	1.3101	0.999	0.993	99.4
5	MC61	L3	True	1.3585	2.502	2.578	103.1
6	MC62	L4	True	1.3337	4.996	5.055	101.2
7	MC63	L5	True	1.2650	9.995	9.591	96.0
8	MC64	L6	True	1.2570	24.998	23.837	95.4
9	MC65	L7	True	1.3156	125.000	124.755	99.8

Analyte Name	TDCA	**Data File**	AG_03222024_1633.wiff
MRM Transition	499.0 / 107.0	**Result Table**	24-0213
Internal Standard	N/A	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: Not enough data points. RSD: Div0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	N/A	0.000	N/A	N/A
4	MC60	L2	True	N/A	0.000	N/A	N/A
5	MC61	L3	True	N/A	0.000	N/A	N/A
6	MC62	L4	True	N/A	0.000	N/A	N/A
7	MC63	L5	True	N/A	0.000	N/A	N/A
8	MC64	L6	True	N/A	0.000	N/A	N/A
9	MC65	L7	True	N/A	0.000	N/A	N/A

Analyte Name	13C4-PFBA	**Data File**	AG_03222024_1633.wiff
MRM Transition	216.8 / 171.9	**Result Table**	24-0213_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.87231 x (std. dev. = 0.01318) (weighting: None) RSD: 1.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8699	10.010	9.982	99.7
4	MC60	L2	True	0.8817	9.993	10.100	101.1
5	MC61	L3	True	0.8736	10.008	10.022	100.1
6	MC62	L4	True	0.8702	9.993	9.969	99.8
7	MC63	L5	True	0.8834	9.995	10.122	101.3
8	MC64	L6	True	0.8821	9.999	10.111	101.1
9	MC65	L7	True	0.8454	10.000	9.691	96.9

Analyte Name	13C5-PFPeA	**Data File**	AG_03222024_1633.wiff
MRM Transition	268.3 / 223.0	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.65148 x (std. dev. = 0.04205) (weighting: None) RSD: 6.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.6700	5.005	5.147	102.8
4	MC60	L2	True	0.6584	4.997	5.050	101.1
5	MC61	L3	True	0.6749	5.004	5.184	103.6
6	MC62	L4	True	0.6623	4.996	5.079	101.7
7	MC63	L5	True	0.6482	4.998	4.973	99.5
8	MC64	L6	True	0.6863	5.000	5.267	105.3
9	MC65	L7	True	0.5602	5.000	4.300	86.0

Analyte Name	13C5-PFHxA	**Data File**	AG_03222024_1633.wiff
MRM Transition	318.0 / 273.0	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.42674 x (std. dev. = 0.08880) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.5463	2.503	2.713	108.4
4	MC60	L2	True	1.4522	2.498	2.543	101.8
5	MC61	L3	True	1.4669	2.502	2.572	102.8
6	MC62	L4	True	1.4484	2.498	2.536	101.5
7	MC63	L5	True	1.3673	2.499	2.395	95.8
8	MC64	L6	True	1.4422	2.500	2.527	101.1
9	MC65	L7	True	1.2639	2.500	2.215	88.6

Analyte Name	13C4-PFHpA	**Data File**	AG_03222024_1633.wiff
MRM Transition	367.1 / 322.0	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.58596 x (std. dev. = 0.24167) (weighting: None) RSD: 9.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	2.6280	2.503	2.544	101.6
4	MC60	L2	True	2.6474	2.498	2.557	102.4
5	MC61	L3	True	2.6436	2.502	2.558	102.2
6	MC62	L4	True	2.7513	2.498	2.658	106.4
7	MC63	L5	True	2.5844	2.499	2.497	99.9
8	MC64	L6	True	2.7851	2.500	2.692	107.7
9	MC65	L7	True	2.0620	2.500	1.993	79.7

Analyte Name	13C8-PFOA	**Data File**	AG_03222024_1633.wiff
MRM Transition	421.1 / 376.0	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.27936 x (std. dev. = 0.07747) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2367	2.503	2.420	96.7
4	MC60	L2	True	1.3374	2.498	2.611	104.5
5	MC61	L3	True	1.3029	2.502	2.548	101.8
6	MC62	L4	True	1.3390	2.498	2.614	104.7
7	MC63	L5	True	1.3198	2.499	2.578	103.2
8	MC64	L6	True	1.2977	2.500	2.536	101.4
9	MC65	L7	True	1.1220	2.500	2.193	87.7

Analyte Name	13C9-PFNA	**Data File**	AG_03222024_1633.wiff
MRM Transition	472.1 / 427.0	**Result Table**	24-0213_SIS
Internal Standard	13C5-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.92354 x (std. dev. = 0.05398) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9323	1.251	1.263	101.0
4	MC60	L2	True	0.9250	1.249	1.251	100.2
5	MC61	L3	True	0.9114	1.251	1.235	98.7
6	MC62	L4	True	1.0265	1.249	1.388	111.2
7	MC63	L5	True	0.8917	1.249	1.206	96.6
8	MC64	L6	True	0.8486	1.250	1.149	91.9
9	MC65	L7	True	0.9293	1.250	1.258	100.6

Analyte Name	13C6-PFDA	**Data File**	AG_03222024_1633.wiff
MRM Transition	519.1 / 474.1	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.27701 x (std. dev. = 0.06222) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.2306	1.251	1.206	96.4
4	MC60	L2	True	1.2949	1.249	1.266	101.4
5	MC61	L3	True	1.2599	1.251	1.234	98.7
6	MC62	L4	True	1.3007	1.249	1.272	101.9
7	MC63	L5	True	1.2446	1.249	1.217	97.5
8	MC64	L6	True	1.3974	1.250	1.368	109.4
9	MC65	L7	True	1.2110	1.250	1.185	94.8

Analyte Name	13C7-PFUnA	**Data File**	AG_03222024_1633.wiff
MRM Transition	570.0 / 525.1	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.48104 x (std. dev. = 0.03215) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.4791	1.251	1.246	99.6
4	MC60	L2	True	0.5368	1.249	1.394	111.6
5	MC61	L3	True	0.4844	1.251	1.260	100.7
6	MC62	L4	True	0.4546	1.249	1.180	94.5
7	MC63	L5	True	0.4515	1.249	1.172	93.9
8	MC64	L6	True	0.5079	1.250	1.320	105.6
9	MC65	L7	True	0.4530	1.250	1.177	94.2

Analyte Name	13C2-PFDoA	**Data File**	AG_03222024_1633.wiff
MRM Transition	615.1 / 570.0	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.99484 x (std. dev. = 0.07761) (weighting: None) RSD: 7.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.9756	1.251	1.227	98.1
4	MC60	L2	True	1.0050	1.249	1.262	101.0
5	MC61	L3	True	1.0279	1.251	1.293	103.3
6	MC62	L4	True	0.9391	1.249	1.179	94.4
7	MC63	L5	True	1.0180	1.249	1.278	102.3
8	MC64	L6	True	1.1234	1.250	1.412	112.9
9	MC65	L7	True	0.8749	1.250	1.099	87.9

Analyte Name	13C2-PFTeDA	**Data File**	AG_03222024_1633.wiff
MRM Transition	715.2 / 670.0	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.52183 x (std. dev. = 0.02898) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5089	1.251	1.220	97.5
4	MC60	L2	True	0.5255	1.249	1.258	100.7
5	MC61	L3	True	0.5708	1.251	1.368	109.4
6	MC62	L4	True	0.4978	1.249	1.192	95.4
7	MC63	L5	True	0.5054	1.249	1.210	96.9
8	MC64	L6	True	0.5506	1.250	1.319	105.5
9	MC65	L7	True	0.4937	1.250	1.183	94.6

Analyte Name	13C3-PFBS	**Data File**	AG_03222024_1633.wiff
MRM Transition	302.1 / 79.9	**Result Table**	24-0213_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.88637 x (std. dev. = 0.28462) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	4.2026	2.332	2.522	108.1
4	MC60	L2	True	4.1992	2.328	2.515	108.1
5	MC61	L3	True	3.7592	2.332	2.256	96.7
6	MC62	L4	True	3.6706	2.328	2.199	94.5
7	MC63	L5	True	4.0459	2.329	2.425	104.1
8	MC64	L6	True	3.8879	2.330	2.331	100.0
9	MC65	L7	True	3.4392	2.330	2.062	88.5

Analyte Name	13C3-PFHxS	**Data File**	AG_03222024_1633.wiff
MRM Transition	402.1 / 79.9	**Result Table**	24-0213_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 4.66240 x (std. dev. = 0.19539) (weighting: None) RSD: 4.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	4.8832	2.372	2.484	104.7
4	MC60	L2	True	4.7058	2.368	2.390	100.9
5	MC61	L3	True	4.4306	2.372	2.254	95.0
6	MC62	L4	True	4.4903	2.368	2.281	96.3
7	MC63	L5	True	4.8966	2.369	2.488	105.0
8	MC64	L6	True	4.7489	2.370	2.414	101.9
9	MC65	L7	True	4.4814	2.370	2.278	96.1

Analyte Name	13C8-PFOS	**Data File**	AG_03222024_1633.wiff
MRM Transition	507.1 / 79.9	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.08252 x (std. dev. = 0.05645) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0776	2.397	2.386	99.6
4	MC60	L2	True	1.0575	2.393	2.338	97.7
5	MC61	L3	True	1.1095	2.397	2.457	102.5
6	MC62	L4	True	1.1843	2.393	2.618	109.4
7	MC63	L5	True	1.0732	2.394	2.373	99.1
8	MC64	L6	True	1.0784	2.395	2.386	99.6
9	MC65	L7	True	0.9972	2.395	2.206	92.1

Analyte Name	13C2-4:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	329.1 / 80.9	**Result Table**	24-0213_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.90692 x (std. dev. = 0.16293) (weighting: None) RSD: 18.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	1.0447	4.695	5.408	115.2
4	MC60	L2	True	1.0319	4.687	5.333	113.8
5	MC61	L3	True	1.0495	4.694	5.432	115.7
6	MC62	L4	True	0.9613	4.687	4.968	106.0
7	MC63	L5	True	0.8746	4.688	4.521	96.4
8	MC64	L6	True	0.7605	4.690	3.933	83.9
9	MC65	L7	True	0.6260	4.690	3.237	69.0

Analyte Name	13C2-6:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	429.1 / 80.9	**Result Table**	24-0213_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.64538 x (std. dev. = 0.08943) (weighting: None) RSD: 13.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.8193	4.760	6.043	127.0
4	MC60	L2	True	0.6727	4.752	4.953	104.2
5	MC61	L3	True	0.6258	4.759	4.614	97.0
6	MC62	L4	True	0.6012	4.752	4.427	93.2
7	MC63	L5	True	0.6565	4.753	4.835	101.7
8	MC64	L6	True	0.6128	4.755	4.515	95.0
9	MC65	L7	True	0.5293	4.755	3.900	82.0

Analyte Name	13C2-8:2FTS	**Data File**	AG_03222024_1633.wiff
MRM Transition	529.1 / 80.9	**Result Table**	24-0213_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16524 x (std. dev. = 0.00944) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1803	4.805	5.243	109.1
4	MC60	L2	True	0.1694	4.797	4.918	102.5
5	MC61	L3	True	0.1671	4.804	4.857	101.1
6	MC62	L4	True	0.1625	4.797	4.717	98.3
7	MC63	L5	True	0.1594	4.798	4.630	96.5
8	MC64	L6	True	0.1498	4.800	4.352	90.7
9	MC65	L7	True	0.1682	4.800	4.885	101.8

Analyte Name	13C8-PFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	506.1 / 77.8	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.72519 x (std. dev. = 0.06532) (weighting: None) RSD: 9.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.7820	2.503	2.699	107.8
4	MC60	L2	True	0.7872	2.498	2.712	108.6
5	MC61	L3	True	0.7621	2.502	2.629	105.1
6	MC62	L4	True	0.7568	2.498	2.607	104.4
7	MC63	L5	True	0.7087	2.499	2.442	97.7
8	MC64	L6	True	0.6651	2.500	2.293	91.7
9	MC65	L7	True	0.6144	2.500	2.118	84.7

Analyte Name	D3-MeFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	515.0 / 219.0	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.24232 x (std. dev. = 0.01476) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2460	2.503	2.541	101.5
4	MC60	L2	True	0.2537	2.498	2.616	104.7
5	MC61	L3	True	0.2410	2.502	2.488	99.5
6	MC62	L4	True	0.2615	2.498	2.696	107.9
7	MC63	L5	True	0.2427	2.499	2.502	100.1
8	MC64	L6	True	0.2367	2.500	2.442	97.7
9	MC65	L7	True	0.2147	2.500	2.215	88.6

Analyte Name	D5-EtFOSA	**Data File**	AG_03222024_1633.wiff
MRM Transition	531.1 / 219.0	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28161 x (std. dev. = 0.02080) (weighting: None) RSD: 7.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2860	2.503	2.542	101.6
4	MC60	L2	True	0.2951	2.498	2.618	104.8
5	MC61	L3	True	0.2894	2.502	2.571	102.8
6	MC62	L4	True	0.3022	2.498	2.681	107.3
7	MC63	L5	True	0.2810	2.499	2.493	99.8
8	MC64	L6	True	0.2796	2.500	2.482	99.3
9	MC65	L7	True	0.2380	2.500	2.113	84.5

Analyte Name	d3-MeFOSAA	**Data File**	AG_03222024_1633.wiff
MRM Transition	573.2 / 419.0	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21156 x (std. dev. = 0.02806) (weighting: None) RSD: 13.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2226	5.005	5.266	105.2
4	MC60	L2	True	0.2208	4.997	5.215	104.4
5	MC61	L3	True	0.2156	5.004	5.098	101.9
6	MC62	L4	True	0.2443	4.996	5.770	115.5
7	MC63	L5	True	0.2174	4.998	5.135	102.8
8	MC64	L6	True	0.2068	5.000	4.887	97.8
9	MC65	L7	True	0.1535	5.000	3.627	72.6

Analyte Name	d5-EtFOSAA	**Data File**	AG_03222024_1633.wiff
MRM Transition	589.2 / 419.0	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.16423 x (std. dev. = 0.02321) (weighting: None) RSD: 14.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.1682	5.005	5.126	102.4
4	MC60	L2	True	0.1735	4.997	5.280	105.7
5	MC61	L3	True	0.1728	5.004	5.264	105.2
6	MC62	L4	True	0.1751	4.996	5.328	106.7
7	MC63	L5	True	0.1880	4.998	5.722	114.5
8	MC64	L6	True	0.1557	5.000	4.740	94.8
9	MC65	L7	True	0.1163	5.000	3.540	70.8

Analyte Name	D7-MeFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	623.2 / 58.9	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20662 x (std. dev. = 0.01962) (weighting: None) RSD: 9.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2156	25.025	26.117	104.4
4	MC60	L2	True	0.2163	24.983	26.159	104.7
5	MC61	L3	True	0.2151	25.020	26.048	104.1
6	MC62	L4	True	0.2262	24.982	27.346	109.5
7	MC63	L5	True	0.2076	24.988	25.107	100.5
8	MC64	L6	True	0.1991	24.998	24.092	96.4
9	MC65	L7	True	0.1663	25.000	20.126	80.5

Analyte Name	D9-EtFOSE	**Data File**	AG_03222024_1633.wiff
MRM Transition	639.2 / 58.9	**Result Table**	24-0213_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.23662 x (std. dev. = 0.01964) (weighting: None) RSD: 8.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.2495	25.025	26.388	105.5
4	MC60	L2	True	0.2478	24.983	26.165	104.7
5	MC61	L3	True	0.2364	25.020	24.997	99.9
6	MC62	L4	True	0.2548	24.982	26.903	107.7
7	MC63	L5	True	0.2368	24.988	25.002	100.1
8	MC64	L6	True	0.2355	24.998	24.884	99.5
9	MC65	L7	True	0.1955	25.000	20.656	82.6

Analyte Name	13C3-HFPO-DA	**Data File**	AG_03222024_1633.wiff
MRM Transition	286.9 / 168.9	**Result Table**	24-0213_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 8:11:43 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.57618 x (std. dev. = 0.03541) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
3	MC59	L1	True	0.5815	10.010	10.102	100.9
4	MC60	L2	True	0.5716	9.993	9.913	99.2
5	MC61	L3	True	0.5855	10.008	10.170	101.6
6	MC62	L4	True	0.5866	9.993	10.174	101.8
7	MC63	L5	True	0.5549	9.995	9.626	96.3
8	MC64	L6	True	0.6350	9.999	11.019	110.2
9	MC65	L7	True	0.5182	10.000	8.993	89.9

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		Isotope Dilution Calibration Curve Concentrations (ng/mL)							IB (ng/mL)	ICC (ng/mL)
Analyte	**CAS No.**	**MC59**	**MC60**	**MC61**	**MC62**	**MC63**	**MC64**	**MC65**	**MB88**	**MC43**
PFBA	**375-22-4**	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
PFPeA	**2706-90-3**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.050
PFHxA	**307-24-4**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFHpA	**375-85-9**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFOA (branched)	**335-67-1**	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
PFNA (branched)	**375-95-1**	0.200	0.499	1.250	2.496	4.994	12.489	62.450	-	5.000
PFDA	**335-76-2**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFUnA	**2058-94-8**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFDoA	**307-55-1**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTrDA	**72629-94-8**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFTeDA	**376-06-7**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
PFBS	**375-73-5**	0.178	0.444	1.111	2.218	4.438	11.099	55.500	-	5.000
PFPeS	**2706-91-4**	0.188	0.470	1.176	2.348	4.698	11.749	58.750	-	5.000
PFHxS (branched)	**355-46-4**	0.183	0.456	1.141	2.279	4.560	11.404	57.025	-	5.000
PFHpS	**375-92-8**	0.191	0.476	1.191	2.378	4.758	11.899	59.500	-	5.000
PFOS (branched)	**1763-23-1**	0.186	0.464	1.161	2.318	4.638	11.599	58.000	-	5.000
PFNS	**68259-12-1**	0.192	0.480	1.201	2.398	4.798	11.999	60.000	-	5.050
PFDS	**335-77-3**	0.193	0.482	1.206	2.408	4.818	12.049	60.250	-	5.050
PFDoS	**79780-39-5**	0.194	0.484	1.211	2.418	4.838	12.099	60.500	-	4.850
4:2FTS	**757124-72-4**	0.750	1.873	4.689	9.363	18.731	46.847	234.250	-	5.000
6:2FTS	**27619-97-2**	0.762	1.901	4.759	9.503	19.010	47.547	237.750	-	5.000
8:2FTS	**39108-34-4**	0.769	1.919	4.804	9.593	19.190	47.997	240.000	-	5.050
PFOSA (branched)	**754-91-6**	0.201	0.502	1.256	2.508	5.017	12.549	62.750	-	5.000
NMeFOSA (branched)	**31506-32-8**	0.200	0.500	1.252	2.499	5.000	12.504	62.525	-	5.000
NEtFOSA (branched)	**4151-50-2**	0.201	0.501	1.254	2.503	5.007	12.524	62.625	-	5.000
NMeFOSAA (branched)	**2355-31-9**	0.200	0.500	1.251	2.498	4.998	12.499	62.500	-	5.000
NEtFOSAA (branched)	**2991-50-6**	0.200	0.500	1.253	2.501	5.003	12.514	62.575	-	5.000
NMeFOSE (branched)	**24448-09-7**	2.004	5.002	12.525	25.012	50.035	125.141	625.750	-	5.000
NEtFOSE (branched)	**1691-99-2**	2.008	5.012	12.550	25.062	50.135	125.391	627.000	-	5.000
HFPO-DA	**13252-13-6**	0.801	1.999	5.004	9.993	19.990	49.997	250.000	-	5.000
Adona	**919005-14-4**	0.757	1.889	4.729	9.443	18.891	47.247	236.250	-	5.000
9Cl-PF3ONS	**756426-58-1**	0.747	1.865	4.669	9.323	18.651	46.647	233.250	-	5.000
11Cl-PF3OUdS	**763051-92-9**	0.755	1.885	4.719	9.423	18.851	47.147	235.750	-	5.000
3:3 FTCA	**356-02-5**	1.001	2.498	6.255	12.491	24.988	62.496	312.500	-	6.250
5:3 FTCA	**914637-49-3**	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
7:3 FTCA	**812-70-4**	5.005	12.491	31.275	62.455	124.938	312.478	1,562.500	-	6.250
PFMPA	**377-73-1**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFEESA	**113507-82-7**	0.357	0.891	2.232	4.457	8.916	22.298	111.500	-	4.460
NFDHA	**151772-58-6**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000
PFMBA	**863090-89-5**	0.400	0.999	2.502	4.996	9.995	24.998	125.000	-	5.000

		Surrogates / Extracted Internal Standards								
13C4-PFBA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
13C5-PFPeA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C5-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFHpA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C8-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C9-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C6-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C7-PFUnA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDoA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFTeDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C3-PFBS	-	2.332	2.328	2.332	2.328	2.329	2.330	2.330	2.330	2.330
13C3-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C8-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395
13C2-4:2FTS	-	4.695	4.687	4.694	4.687	4.688	4.690	4.690	4.690	4.690
13C2-6:2FTS	-	4.760	4.752	4.759	4.752	4.753	4.755	4.755	4.755	4.755
13C2-8:2FTS	-	4.805	4.797	4.804	4.797	4.798	4.800	4.800	4.800	4.800
13C8-FOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D3-MeFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
D5-EtFOSA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
d3-MeFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
d5-EtFOSAA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
D7-MeFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	25.000	25.000
D9-EtFOSE	-	25.025	24.983	25.020	24.982	24.988	24.998	25.000	25.000	25.000
13C3-HFPO-DA	-	10.010	9.993	10.008	9.993	9.995	9.999	10.000	10.000	10.000
		Internal Standards								
13C3-PFBA	-	5.005	4.997	5.004	4.996	4.998	5.000	5.000	5.000	5.000
13C2-PFHxA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C4-PFOA	-	2.503	2.498	2.502	2.498	2.499	2.500	2.500	2.500	2.500
13C5-PFNA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
13C2-PFDA	-	1.251	1.249	1.251	1.249	1.249	1.250	1.250	1.250	1.250
18O2-PFHxS	-	2.372	2.368	2.372	2.368	2.369	2.370	2.370	2.370	2.370
13C4-PFOS	-	2.397	2.393	2.397	2.393	2.394	2.395	2.395	2.395	2.395

Sample Name	MC43 ICC	**Injection Vial**	11
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:14:10 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.96	4.643	5.000	92.86
PFPeA	263.0 / 219.0	4.40	5.003	5.050	99.06
PFHxA_1	313.0 / 269.0	5.49	5.154	5.000	103.08
PFHxA_2	313.0 / 118.9	5.49	5.063	5.000	101.27
PFHpA_1	363.1 / 319.0	6.21	4.432	5.000	88.64
PFHpA_2	363.1 / 169.0	6.21	4.405	5.000	88.11
PFOA_1	413.0 / 369.0	6.73	5.763	5.000	115.25
PFOA_2	413.0 / 169.0	6.73	3.362	5.000	67.25
PFNA_1	463.0 / 419.0	7.19	5.649	5.000	112.97
PFNA_2	463.0 / 219.0	7.19	4.560	5.000	91.19
PFDA_1	512.9 / 469.0	7.60	5.245	5.000	104.90
PFDA_2	512.9 / 219.0	7.60	5.502	5.000	110.03
PFUnA_1	563.1 / 519.0	7.98	4.822	5.000	96.45
PFUnA_2	563.1 / 269.1	7.98	4.726	5.000	94.52
PFDoA_1	613.1 / 569.0	8.35	4.250	5.000	85.01
PFDoA_2	613.1 / 319.0	8.35	4.128	5.000	82.56
PFTrDA_1	663.0 / 619.0	8.71	4.567	5.000	91.33
PFTrDA_2	663.0 / 168.9	8.71	4.246	5.000	84.92
PFTeDA_1	713.0 / 669.0	9.05	5.449	5.000	108.98
PFTeDA_2	713.0 / 168.9	9.05	4.917	5.000	98.34
PFBS_1	298.7 / 79.9	5.37	5.082	5.000	101.65
PFBS_2	298.9 / 98.8	5.37	4.725	5.000	94.51
PFPeS_1	349.1 / 79.9	6.21	5.769	5.000	115.38
PFPeS_2	349.1 / 98.9	6.21	5.494	5.000	109.89
PFHxS_1	398.7 / 79.9	6.79	5.598	5.000	111.97
PFHxS_2	398.7 / 98.9	6.79	5.131	5.000	102.62
PFHpS_1	449.0 / 79.9	7.28	4.607	5.000	92.14
PFHpS_2	449.0 / 98.9	7.28	4.758	5.000	95.16
PFOS_1	498.9 / 79.9	7.71	4.247	5.000	84.95
PFOS_2	498.9 / 98.9	7.70	3.990	5.000	79.79
PFNS_1	548.8 / 79.9	8.11	4.638	5.050	91.83
PFNS_2	548.8 / 98.9	8.11	4.868	5.050	96.40
PFDS_1	599.0 / 79.9	8.49	4.643	5.050	91.95
PFDS_2	599.0 / 98.9	8.49	4.768	5.050	94.41
PFDoS_1	699.1 / 79.9	9.18	5.156	4.850	106.31
PFDoS_2	699.1 / 98.9	9.18	5.121	4.850	105.59
4:2FTS_1	327.1 / 307.0	5.28	5.341	5.000	106.81
4:2FTS_2	327.1 / 80.9	5.28	5.220	5.000	104.40
6:2FTS_1	427.1 / 407.0	6.56	5.032	5.000	100.64
6:2FTS_2	427.1 / 80.9	6.56	5.316	5.000	106.32
8:2FTS_1	527.1 / 507.0	7.43	5.212	5.050	103.21
8:2FTS_2	527.1 / 80.8	7.43	5.439	5.050	107.71
PFOSA_1	498.1 / 77.9	8.06	4.982	5.000	99.64
PFOSA_2	498.1 / 478.0	8.06	6.731	5.000	134.63
NMeFOSA_1	511.9 / 219.0	10.12	5.578	5.000	111.57
NMeFOSA_2	511.9 / 169.0	10.12	4.192	5.000	83.83
NEtFOSA_1	526.0 / 219.0	10.46	5.480	5.000	109.60
NEtFOSA_2	526.0 / 169.0	10.46	4.411	5.000	88.21
NMeFOSAA_1	570.1 / 419.0	7.63	5.471	5.000	109.41
NMeFOSAA_2	570.1 / 483.0	7.63	4.969	5.000	99.38
NEtFOSAA_1	584.2 / 419.1	7.78	4.807	5.000	96.15
NEtFOSAA_2	584.2 / 526.0	7.78	4.790	5.000	95.80
NMeFOSE	616.1 / 58.9	10.08	5.716	5.000	114.33
NEtFOSE	630.0 / 58.9	10.38	5.742	5.000	114.84
HFPO-DA_1	284.9 / 168.9	5.75	4.767	5.000	95.34
HFPO-DA_2	284.9 / 184.9	5.75	4.977	5.000	99.54
ADONA_1	376.9 / 250.9	6.40	5.564	5.000	111.27
ADONA_2	376.9 / 84.8	6.40	5.885	5.000	117.71
9Cl-PF3ONS_1	530.8 / 351.0	7.98	4.859	5.000	97.18
9Cl-PF3ONS_2	532.8 / 353.0	7.98	4.445	5.000	88.91
11Cl-PF3OUdS_1	630.9 / 450.9	8.73	5.359	5.000	107.19
11Cl-PF3OUdS_2	632.9 / 452.9	8.73	5.201	5.000	104.01

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
3:3 FTCA_1	241.0 / 177.0	3.70	7.474	6.250	119.59
3:3 FTCA_2	241.0 / 117.0	3.70	7.832	6.250	125.31
5:3 FTCA_1	341.0 / 237.1	5.80	7.040	6.250	112.64
5:3 FTCA_2	341.0 / 217.0	5.80	6.823	6.250	109.16
7:3 FTCA_1	441.0 / 316.9	6.86	7.388	6.250	118.20
7:3 FTCA_2	441.0 / 336.9	6.86	6.886	6.250	110.18
NFDHA_1	295.0 / 201.1	5.38	4.880	5.000	97.59
NFDHA_2	295.0 / 84.9	5.38	4.852	5.000	97.04
PFEESA_1	314.8 / 134.9	5.77	4.807	4.460	107.78
PFEESA_2	314.8 / 82.9	5.77	4.676	4.460	104.84
PFMPA	229.0 / 84.9	3.13	5.478	5.000	109.56
PFMBA	279.0 / 85.1	4.80	5.395	5.000	107.90
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC59 ISC	**Injection Vial**	12
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:36:56 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.96	0.807	0.801	100.71
PFPeA	263.0 / 219.0	4.42	0.396	0.400	98.89
PFHxA_1	313.0 / 269.0	5.51	0.230	0.200	115.07
PFHxA_2	313.0 / 118.9	5.51	0.314	0.200	156.76
PFHpA_1	363.1 / 319.0	6.24	0.205	0.200	102.58
PFHpA_2	363.1 / 169.0	6.23	0.233	0.200	116.40
PFOA_1	413.0 / 369.0	6.76	0.196	0.200	98.08
PFOA_2	413.0 / 169.0	6.69	0.190	0.200	95.01
PFNA_1	463.0 / 419.0	7.21	0.249	0.200	124.70
PFNA_2	463.0 / 219.0	7.16	0.199	0.200	99.63
PFDA_1	512.9 / 469.0	7.61	0.242	0.200	121.22
PFDA_2	512.9 / 219.0	7.61	0.236	0.200	118.04
PFUnA_1	563.1 / 519.0	8.00	0.192	0.200	96.25
PFUnA_2	563.1 / 269.1	8.00	0.180	0.200	89.98
PFDoA_1	613.1 / 569.0	8.37	0.205	0.200	102.65
PFDoA_2	613.1 / 319.0	8.37	0.214	0.200	106.85
PFTrDA_1	663.0 / 619.0	8.73	0.217	0.200	108.54
PFTrDA_2	663.0 / 168.9	8.73	0.182	0.200	90.95
PFTeDA_1	713.0 / 669.0	9.06	0.198	0.200	98.90
PFTeDA_2	713.0 / 168.9	9.06	0.250	0.200	124.91
PFBS_1	298.7 / 79.9	5.39	0.194	0.178	109.26
PFBS_2	298.9 / 98.8	5.39	0.178	0.178	99.75
PFPeS_1	349.1 / 79.9	6.24	0.209	0.188	111.41
PFPeS_2	349.1 / 98.9	6.24	0.181	0.188	96.28
PFHxS_1	398.7 / 79.9	6.82	0.205	0.183	111.87
PFHxS_2	398.7 / 98.9	6.82	0.200	0.183	109.49
PFHpS_1	449.0 / 79.9	7.30	0.205	0.191	107.56
PFHpS_2	449.0 / 98.9	7.30	0.187	0.191	97.74
PFOS_1	498.9 / 79.9	7.72	0.213	0.186	114.41
PFOS_2	498.9 / 98.9	7.72	0.205	0.186	110.10
PFNS_1	548.8 / 79.9	8.12	0.177	0.192	92.19
PFNS_2	548.8 / 98.9	8.12	0.238	0.192	124.07
PFDS_1	599.0 / 79.9	8.50	0.216	0.193	112.02
PFDS_2	599.0 / 98.9	8.50	0.232	0.193	120.14
PFDoS_1	699.1 / 79.9	9.20	0.198	0.194	101.94
PFDoS_2	699.1 / 98.9	9.20	0.210	0.194	108.01
4:2FTS_1	327.1 / 307.0	5.30	0.819	0.750	109.22
4:2FTS_2	327.1 / 80.9	5.30	0.812	0.750	108.27
6:2FTS_1	427.1 / 407.0	6.59	0.898	0.762	117.82
6:2FTS_2	427.1 / 80.9	6.59	0.943	0.762	123.69
8:2FTS_1	527.1 / 507.0	7.45	0.792	0.769	103.00
8:2FTS_2	527.1 / 80.8	7.45	0.852	0.769	110.77
PFOSA_1	498.1 / 77.9	8.07	0.209	0.201	103.86
PFOSA_2	498.1 / 478.0	7.96	0.312	0.201	155.01
NMeFOSA_1	511.9 / 219.0	10.13	0.183	0.200	91.28
NMeFOSA_2	511.9 / 169.0	10.07	0.222	0.200	111.03
NEtFOSA_1	526.0 / 219.0	10.48	0.217	0.201	108.05
NEtFOSA_2	526.0 / 169.0	10.42	0.218	0.201	108.39
NMeFOSAA_1	570.1 / 419.0	7.65	0.202	0.200	101.16
NMeFOSAA_2	570.1 / 483.0	7.58	0.257	0.200	128.32
NEtFOSAA_1	584.2 / 419.1	7.79	0.235	0.200	117.49
NEtFOSAA_2	584.2 / 526.0	7.79	0.222	0.200	110.96
NMeFOSE	616.1 / 58.9	10.09	1.902	2.004	94.91
NEtFOSE	630.0 / 58.9	10.39	2.086	2.008	103.86
HFPO-DA_1	284.9 / 168.9	5.77	0.764	0.801	95.36
HFPO-DA_2	284.9 / 184.9	5.77	0.950	0.801	118.61
ADONA_1	376.9 / 250.9	6.43	0.852	0.757	112.57
ADONA_2	376.9 / 84.8	6.43	0.893	0.757	117.96
9Cl-PF3ONS_1	530.8 / 351.0	7.99	0.762	0.747	102.01
9Cl-PF3ONS_2	532.8 / 353.0	7.99	0.726	0.747	97.24
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	0.943	0.755	124.85

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	0.889	0.755	117.70
3:3 FTCA_1	241.0 / 177.0	3.74	0.968	1.001	96.67
3:3 FTCA_2	241.0 / 117.0	3.74	0.932	1.001	93.13
5:3 FTCA_1	341.0 / 237.1	5.83	5.137	5.005	102.64
5:3 FTCA_2	341.0 / 217.0	5.83	5.455	5.005	109.00
7:3 FTCA_1	441.0 / 316.9	6.88	4.931	5.005	98.53
7:3 FTCA_2	441.0 / 336.9	6.88	4.895	5.005	97.79
NFDHA_1	295.0 / 201.1	5.41	0.458	0.400	114.59
NFDHA_2	295.0 / 84.9	5.40	0.408	0.400	102.02
PFEESA_1	314.8 / 134.9	5.80	0.444	0.357	124.24
PFEESA_2	314.8 / 82.9	5.79	0.431	0.357	120.64
PFMPA	229.0 / 84.9	3.18	0.413	0.400	103.34
PFMBA	279.0 / 85.1	4.82	0.414	0.400	103.41
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:59:43 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	9.825	9.993	98.32
PFPeA	263.0 / 219.0	4.44	5.008	4.996	100.25
PFHxA_1	313.0 / 269.0	5.53	2.546	2.498	101.94
PFHxA_2	313.0 / 118.9	5.53	2.420	2.498	96.88
PFHpA_1	363.1 / 319.0	6.26	2.576	2.498	103.13
PFHpA_2	363.1 / 169.0	6.26	2.336	2.498	93.51
PFOA_1	413.0 / 369.0	6.79	2.356	2.501	94.19
PFOA_2	413.0 / 169.0	6.70	2.382	2.501	95.23
PFNA_1	463.0 / 419.0	7.24	2.345	2.496	93.96
PFNA_2	463.0 / 219.0	7.23	2.390	2.496	95.77
PFDA_1	512.9 / 469.0	7.64	2.447	2.498	97.97
PFDA_2	512.9 / 219.0	7.64	2.489	2.498	99.64
PFUnA_1	563.1 / 519.0	8.02	2.354	2.498	94.25
PFUnA_2	563.1 / 269.1	8.02	2.117	2.498	84.75
PFDoA_1	613.1 / 569.0	8.38	2.399	2.498	96.02
PFDoA_2	613.1 / 319.0	8.38	2.198	2.498	87.97
PFTrDA_1	663.0 / 619.0	8.73	2.551	2.498	102.13
PFTrDA_2	663.0 / 168.9	8.73	2.239	2.498	89.64
PFTeDA_1	713.0 / 669.0	9.07	2.478	2.498	99.21
PFTeDA_2	713.0 / 168.9	9.07	2.470	2.498	98.89
PFBS_1	298.7 / 79.9	5.41	2.146	2.218	96.76
PFBS_2	298.9 / 98.8	5.40	2.194	2.218	98.93
PFPeS_1	349.1 / 79.9	6.26	2.521	2.348	107.37
PFPeS_2	349.1 / 98.9	6.26	2.481	2.348	105.66
PFHxS_1	398.7 / 79.9	6.85	2.188	2.279	96.03
PFHxS_2	398.7 / 98.9	6.84	2.197	2.279	96.41
PFHpS_1	449.0 / 79.9	7.33	2.306	2.378	96.98
PFHpS_2	449.0 / 98.9	7.33	2.187	2.378	91.96
PFOS_1	498.9 / 79.9	7.74	2.160	2.318	93.18
PFOS_2	498.9 / 98.9	7.74	2.215	2.318	95.57
PFNS_1	548.8 / 79.9	8.14	2.243	2.398	93.54
PFNS_2	548.8 / 98.9	8.14	2.353	2.398	98.14
PFDS_1	599.0 / 79.9	8.51	2.541	2.408	105.53
PFDS_2	599.0 / 98.9	8.51	2.491	2.408	103.43
PFDoS_1	699.1 / 79.9	9.20	2.277	2.418	94.18
PFDoS_2	699.1 / 98.9	9.20	2.396	2.418	99.10
4:2FTS_1	327.1 / 307.0	5.31	8.984	9.363	95.95
4:2FTS_2	327.1 / 80.9	5.31	8.547	9.363	91.29
6:2FTS_1	427.1 / 407.0	6.61	10.139	9.503	106.70
6:2FTS_2	427.1 / 80.9	6.61	10.222	9.503	107.57
8:2FTS_1	527.1 / 507.0	7.48	11.290	9.593	117.69
8:2FTS_2	527.1 / 80.8	7.48	11.970	9.593	124.78
PFOSA_1	498.1 / 77.9	8.10	2.450	2.508	97.68
PFOSA_2	498.1 / 478.0	8.10	2.258	2.508	90.05
NMeFOSA_1	511.9 / 219.0	10.13	2.538	2.499	101.57
NMeFOSA_2	511.9 / 169.0	10.09	2.376	2.499	95.06
NEtFOSA_1	526.0 / 219.0	10.47	2.585	2.503	103.29
NEtFOSA_2	526.0 / 169.0	10.42	2.573	2.503	102.79
NMeFOSAA_1	570.1 / 419.0	7.67	2.600	2.498	104.07
NMeFOSAA_2	570.1 / 483.0	7.67	2.434	2.498	97.45
NEtFOSAA_1	584.2 / 419.1	7.81	2.260	2.501	90.37
NEtFOSAA_2	584.2 / 526.0	7.81	2.390	2.501	95.56
NMeFOSE	616.1 / 58.9	10.09	24.351	25.012	97.36
NEtFOSE	630.0 / 58.9	10.39	25.968	25.062	103.62
HFPO-DA_1	284.9 / 168.9	5.79	9.317	9.993	93.23
HFPO-DA_2	284.9 / 184.9	5.79	9.691	9.993	96.98
ADONA_1	376.9 / 250.9	6.46	9.207	9.443	97.51
ADONA_2	376.9 / 84.8	6.46	9.369	9.443	99.21
9Cl-PF3ONS_1	530.8 / 351.0	8.01	8.816	9.323	94.56
9Cl-PF3ONS_2	532.8 / 353.0	8.01	8.304	9.323	89.07
11Cl-PF3OUdS_1	630.9 / 450.9	8.76	9.563	9.423	101.48

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	9.263	9.423	98.30
3:3 FTCA_1	241.0 / 177.0	3.76	12.287	12.491	98.37
3:3 FTCA_2	241.0 / 117.0	3.76	13.048	12.491	104.46
5:3 FTCA_1	341.0 / 237.1	5.84	66.315	62.455	106.18
5:3 FTCA_2	341.0 / 217.0	5.84	68.140	62.455	109.10
7:3 FTCA_1	441.0 / 316.9	6.91	66.362	62.455	106.26
7:3 FTCA_2	441.0 / 336.9	6.91	64.453	62.455	103.20
NFDHA_1	295.0 / 201.1	5.42	5.022	4.996	100.53
NFDHA_2	295.0 / 84.9	5.42	5.286	4.996	105.81
PFEESA_1	314.8 / 134.9	5.81	5.049	4.457	113.28
PFEESA_2	314.8 / 82.9	5.81	4.908	4.457	110.11
PFMPA	229.0 / 84.9	3.20	4.874	4.996	97.56
PFMBA	279.0 / 85.1	4.83	4.832	4.996	96.73
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC63 CV	**Injection Vial**	37
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 9:07:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	18.913	19.990	94.61
PFPeA	263.0 / 219.0	4.43	9.535	9.995	95.40
PFHxA_1	313.0 / 269.0	5.52	4.750	4.998	95.03
PFHxA_2	313.0 / 118.9	5.52	4.820	4.998	96.45
PFHpA_1	363.1 / 319.0	6.24	4.734	4.998	94.71
PFHpA_2	363.1 / 169.0	6.24	4.393	4.998	87.90
PFOA_1	413.0 / 369.0	6.77	4.507	5.003	90.08
PFOA_2	413.0 / 169.0	6.70	4.380	5.003	87.56
PFNA_1	463.0 / 419.0	7.22	4.892	4.994	97.96
PFNA_2	463.0 / 219.0	7.21	4.611	4.994	92.33
PFDA_1	512.9 / 469.0	7.62	4.444	4.998	88.92
PFDA_2	512.9 / 219.0	7.62	4.739	4.998	94.82
PFUnA_1	563.1 / 519.0	8.00	4.937	4.998	98.78
PFUnA_2	563.1 / 269.1	8.00	4.923	4.998	98.51
PFDoA_1	613.1 / 569.0	8.37	4.593	4.998	91.89
PFDoA_2	613.1 / 319.0	8.37	4.494	4.998	89.92
PFTrDA_1	663.0 / 619.0	8.72	4.962	4.998	99.29
PFTrDA_2	663.0 / 168.9	8.72	4.757	4.998	95.19
PFTeDA_1	713.0 / 669.0	9.06	4.624	4.998	92.53
PFTeDA_2	713.0 / 168.9	9.06	4.643	4.998	92.90
PFBS_1	298.7 / 79.9	5.39	4.342	4.438	97.84
PFBS_2	298.9 / 98.8	5.39	4.305	4.438	97.01
PFPeS_1	349.1 / 79.9	6.24	4.762	4.698	101.36
PFPeS_2	349.1 / 98.9	6.24	4.677	4.698	99.55
PFHxS_1	398.7 / 79.9	6.83	4.168	4.560	91.40
PFHxS_2	398.7 / 98.9	6.83	4.036	4.560	88.51
PFHpS_1	449.0 / 79.9	7.31	4.044	4.758	84.98
PFHpS_2	449.0 / 98.9	7.31	4.251	4.758	89.35
PFOS_1	498.9 / 79.9	7.73	4.110	4.638	88.61
PFOS_2	498.9 / 98.9	7.72	4.000	4.638	86.25
PFNS_1	548.8 / 79.9	8.12	4.260	4.798	88.79
PFNS_2	548.8 / 98.9	8.12	4.722	4.798	98.41
PFDS_1	599.0 / 79.9	8.50	4.466	4.818	92.69
PFDS_2	599.0 / 98.9	8.50	4.518	4.818	93.78
PFDoS_1	699.1 / 79.9	9.19	4.588	4.838	94.84
PFDoS_2	699.1 / 98.9	9.19	4.582	4.838	94.71
4:2FTS_1	327.1 / 307.0	5.30	18.575	18.731	99.17
4:2FTS_2	327.1 / 80.9	5.30	18.526	18.731	98.91
6:2FTS_1	427.1 / 407.0	6.60	19.597	19.010	103.09
6:2FTS_2	427.1 / 80.9	6.60	19.824	19.010	104.28
8:2FTS_1	527.1 / 507.0	7.46	17.317	19.190	90.24
8:2FTS_2	527.1 / 80.8	7.46	17.569	19.190	91.55
PFOSA_1	498.1 / 77.9	8.07	4.682	5.017	93.32
PFOSA_2	498.1 / 478.0	8.07	5.042	5.017	100.51
NMeFOSA_1	511.9 / 219.0	10.12	5.159	5.000	103.17
NMeFOSA_2	511.9 / 169.0	10.09	4.817	5.000	96.34
NEtFOSA_1	526.0 / 219.0	10.46	4.919	5.007	98.25
NEtFOSA_2	526.0 / 169.0	10.41	4.785	5.007	95.56
NMeFOSAA_1	570.1 / 419.0	7.65	4.487	4.998	89.77
NMeFOSAA_2	570.1 / 483.0	7.65	4.397	4.998	87.98
NEtFOSAA_1	584.2 / 419.1	7.80	5.209	5.003	104.12
NEtFOSAA_2	584.2 / 526.0	7.80	5.151	5.003	102.96
NMeFOSE	616.1 / 58.9	10.08	45.686	50.035	91.31
NEtFOSE	630.0 / 58.9	10.38	47.425	50.135	94.59
HFPO-DA_1	284.9 / 168.9	5.77	18.520	19.990	92.64
HFPO-DA_2	284.9 / 184.9	5.77	18.333	19.990	91.71
ADONA_1	376.9 / 250.9	6.44	18.539	18.891	98.14
ADONA_2	376.9 / 84.8	6.44	18.017	18.891	95.37
9Cl-PF3ONS_1	530.8 / 351.0	8.00	19.608	18.651	105.13
9Cl-PF3ONS_2	532.8 / 353.0	8.00	18.752	18.651	100.54
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	17.665	18.851	93.71

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	18.975	18.851	100.66
3:3 FTCA_1	241.0 / 177.0	3.75	23.540	24.988	94.21
3:3 FTCA_2	241.0 / 117.0	3.75	24.154	24.988	96.66
5:3 FTCA_1	341.0 / 237.1	5.83	125.140	124.938	100.16
5:3 FTCA_2	341.0 / 217.0	5.83	124.009	124.938	99.26
7:3 FTCA_1	441.0 / 316.9	6.90	123.563	124.938	98.90
7:3 FTCA_2	441.0 / 336.9	6.90	124.973	124.938	100.03
NFDHA_1	295.0 / 201.1	5.40	10.000	9.995	100.05
NFDHA_2	295.0 / 84.9	5.40	9.356	9.995	93.61
PFEESA_1	314.8 / 134.9	5.80	9.187	8.916	103.04
PFEESA_2	314.8 / 82.9	5.80	8.895	8.916	99.76
PFMPA	229.0 / 84.9	3.19	9.596	9.995	96.01
PFMBA	279.0 / 85.1	4.82	9.337	9.995	93.41
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC62 CV	**Injection Vial**	49
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 1:40:38 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.93	10.059	9.993	100.66
PFPeA	263.0 / 219.0	4.40	4.892	4.996	97.91
PFHxA_1	313.0 / 269.0	5.50	2.494	2.498	99.83
PFHxA_2	313.0 / 118.9	5.50	2.293	2.498	91.79
PFHpA_1	363.1 / 319.0	6.23	2.563	2.498	102.62
PFHpA_2	363.1 / 169.0	6.23	2.258	2.498	90.38
PFOA_1	413.0 / 369.0	6.75	2.531	2.501	101.19
PFOA_2	413.0 / 169.0	6.69	2.489	2.501	99.51
PFNA_1	463.0 / 419.0	7.20	2.386	2.496	95.61
PFNA_2	463.0 / 219.0	7.19	2.420	2.496	96.97
PFDA_1	512.9 / 469.0	7.61	2.242	2.498	89.76
PFDA_2	512.9 / 219.0	7.61	2.563	2.498	102.59
PFUnA_1	563.1 / 519.0	8.00	2.569	2.498	102.85
PFUnA_2	563.1 / 269.1	8.00	2.188	2.498	87.58
PFDoA_1	613.1 / 569.0	8.37	2.575	2.498	103.06
PFDoA_2	613.1 / 319.0	8.37	2.511	2.498	100.51
PFTrDA_1	663.0 / 619.0	8.73	2.549	2.498	102.03
PFTrDA_2	663.0 / 168.9	8.73	2.364	2.498	94.62
PFTeDA_1	713.0 / 669.0	9.07	2.460	2.498	98.48
PFTeDA_2	713.0 / 168.9	9.07	2.576	2.498	103.11
PFBS_1	298.7 / 79.9	5.38	2.282	2.218	102.88
PFBS_2	298.9 / 98.8	5.38	2.139	2.218	96.43
PFPeS_1	349.1 / 79.9	6.23	2.498	2.348	106.39
PFPeS_2	349.1 / 98.9	6.23	2.461	2.348	104.80
PFHxS_1	398.7 / 79.9	6.81	2.088	2.279	91.62
PFHxS_2	398.7 / 98.9	6.81	2.132	2.279	93.56
PFHpS_1	449.0 / 79.9	7.29	2.326	2.378	97.81
PFHpS_2	449.0 / 98.9	7.30	2.157	2.378	90.69
PFOS_1	498.9 / 79.9	7.72	2.233	2.318	96.33
PFOS_2	498.9 / 98.9	7.72	2.220	2.318	95.77
PFNS_1	548.8 / 79.9	8.12	2.233	2.398	93.10
PFNS_2	548.8 / 98.9	8.12	2.439	2.398	101.72
PFDS_1	599.0 / 79.9	8.50	2.397	2.408	99.56
PFDS_2	599.0 / 98.9	8.50	2.359	2.408	97.98
PFDoS_1	699.1 / 79.9	9.20	2.426	2.418	100.32
PFDoS_2	699.1 / 98.9	9.20	2.525	2.418	104.41
4:2FTS_1	327.1 / 307.0	5.28	9.905	9.363	105.79
4:2FTS_2	327.1 / 80.9	5.28	9.637	9.363	102.93
6:2FTS_1	427.1 / 407.0	6.58	10.149	9.503	106.80
6:2FTS_2	427.1 / 80.9	6.58	9.835	9.503	103.49
8:2FTS_1	527.1 / 507.0	7.45	10.421	9.593	108.63
8:2FTS_2	527.1 / 80.8	7.45	10.507	9.593	109.53
PFOSA_1	498.1 / 77.9	8.05	2.612	2.508	104.16
PFOSA_2	498.1 / 478.0	8.06	2.028	2.508	80.87
NMeFOSA_1	511.9 / 219.0	10.12	2.478	2.499	99.18
NMeFOSA_2	511.9 / 169.0	10.10	2.392	2.499	95.71
NEtFOSA_1	526.0 / 219.0	10.46	2.589	2.503	103.45
NEtFOSA_2	526.0 / 169.0	10.42	2.597	2.503	103.77
NMeFOSAA_1	570.1 / 419.0	7.64	2.370	2.498	94.88
NMeFOSAA_2	570.1 / 483.0	7.65	2.310	2.498	92.47
NEtFOSAA_1	584.2 / 419.1	7.79	2.641	2.501	105.60
NEtFOSAA_2	584.2 / 526.0	7.79	2.472	2.501	98.84
NMeFOSE	616.1 / 58.9	10.09	24.222	25.012	96.84
NEtFOSE	630.0 / 58.9	10.39	24.653	25.062	98.37
HFPO-DA_1	284.9 / 168.9	5.76	9.187	9.993	91.94
HFPO-DA_2	284.9 / 184.9	5.76	9.756	9.993	97.63
ADONA_1	376.9 / 250.9	6.43	9.175	9.443	97.16
ADONA_2	376.9 / 84.8	6.43	8.792	9.443	93.10
9Cl-PF3ONS_1	530.8 / 351.0	7.99	8.607	9.323	92.32
9Cl-PF3ONS_2	532.8 / 353.0	7.99	7.967	9.323	85.46
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	8.910	9.423	94.56

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	8.631	9.423	91.60
3:3 FTCA_1	241.0 / 177.0	3.70	11.815	12.491	94.59
3:3 FTCA_2	241.0 / 117.0	3.70	11.708	12.491	93.73
5:3 FTCA_1	341.0 / 237.1	5.82	66.176	62.455	105.96
5:3 FTCA_2	341.0 / 217.0	5.82	66.309	62.455	106.17
7:3 FTCA_1	441.0 / 316.9	6.88	62.880	62.455	100.68
7:3 FTCA_2	441.0 / 336.9	6.88	63.304	62.455	101.36
NFDHA_1	295.0 / 201.1	5.39	5.390	4.996	107.90
NFDHA_2	295.0 / 84.9	5.39	4.908	4.996	98.24
PFEESA_1	314.8 / 134.9	5.79	4.717	4.457	105.83
PFEESA_2	314.8 / 82.9	5.79	4.525	4.457	101.53
PFMPA	229.0 / 84.9	3.16	4.977	4.996	99.62
PFMBA	279.0 / 85.1	4.80	4.800	4.996	96.08
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC59 CV	**Injection Vial**	6
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 5:51:39 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	0.817	0.801	101.98
PFPeA	263.0 / 219.0	4.43	0.421	0.400	105.23
PFHxA_1	313.0 / 269.0	5.51	0.232	0.200	116.15
PFHxA_2	313.0 / 118.9	5.52	0.220	0.200	110.05
PFHpA_1	363.1 / 319.0	6.23	0.210	0.200	105.09
PFHpA_2	363.1 / 169.0	6.24	0.261	0.200	130.68
PFOA_1	413.0 / 369.0	6.76	0.215	0.200	107.38
PFOA_2	413.0 / 169.0	6.71	0.212	0.200	105.88
PFNA_1	463.0 / 419.0	7.21	0.247	0.200	123.29
PFNA_2	463.0 / 219.0	7.21	0.228	0.200	113.99
PFDA_1	512.9 / 469.0	7.62	0.189	0.200	94.53
PFDA_2	512.9 / 219.0	7.63	0.138	0.200	69.10
PFUnA_1	563.1 / 519.0	8.00	0.201	0.200	100.68
PFUnA_2	563.1 / 269.1	8.01	0.100	0.200	49.83
PFDoA_1	613.1 / 569.0	8.37	0.191	0.200	95.58
PFDoA_2	613.1 / 319.0	8.37	0.207	0.200	103.28
PFTrDA_1	663.0 / 619.0	8.73	0.220	0.200	110.13
PFTrDA_2	663.0 / 168.9	8.73	0.213	0.200	106.48
PFTeDA_1	713.0 / 669.0	9.06	0.222	0.200	110.79
PFTeDA_2	713.0 / 168.9	9.06	0.222	0.200	110.78
PFBS_1	298.7 / 79.9	5.39	0.168	0.178	94.56
PFBS_2	298.9 / 98.8	5.39	0.179	0.178	100.37
PFPeS_1	349.1 / 79.9	6.24	0.216	0.188	115.06
PFPeS_2	349.1 / 98.9	6.24	0.204	0.188	108.36
PFHxS_1	398.7 / 79.9	6.82	0.181	0.183	99.05
PFHxS_2	398.7 / 98.9	6.82	0.178	0.183	97.05
PFHpS_1	449.0 / 79.9	7.30	0.196	0.191	102.69
PFHpS_2	449.0 / 98.9	7.30	0.191	0.191	100.17
PFOS_1	498.9 / 79.9	7.72	0.191	0.186	102.47
PFOS_2	498.9 / 98.9	7.72	0.241	0.186	129.81
PFNS_1	548.8 / 79.9	8.12	0.204	0.192	106.36
PFNS_2	548.8 / 98.9	8.12	0.168	0.192	87.44
PFDS_1	599.0 / 79.9	8.50	0.209	0.193	108.22
PFDS_2	599.0 / 98.9	8.50	0.220	0.193	114.06
PFDoS_1	699.1 / 79.9	9.19	0.200	0.194	103.11
PFDoS_2	699.1 / 98.9	9.19	0.216	0.194	111.15
4:2FTS_1	327.1 / 307.0	5.30	0.798	0.750	106.38
4:2FTS_2	327.1 / 80.9	5.29	0.791	0.750	105.42
6:2FTS_1	427.1 / 407.0	6.59	0.842	0.762	110.50
6:2FTS_2	427.1 / 80.9	6.59	0.853	0.762	112.00
8:2FTS_1	527.1 / 507.0	7.46	0.935	0.769	121.63
8:2FTS_2	527.1 / 80.8	7.45	0.975	0.769	126.84
PFOSA_1	498.1 / 77.9	8.06	0.248	0.201	123.30
PFOSA_2	498.1 / 478.0	8.04	0.481	0.201	239.40
NMeFOSA_1	511.9 / 219.0	10.11	0.244	0.200	121.98
NMeFOSA_2	511.9 / 169.0	10.11	0.235	0.200	117.37
NEtFOSA_1	526.0 / 219.0	10.46	0.220	0.201	109.27
NEtFOSA_2	526.0 / 169.0	10.42	0.234	0.201	116.66
NMeFOSAA_1	570.1 / 419.0	7.66	0.180	0.200	90.09
NMeFOSAA_2	570.1 / 483.0	7.65	0.346	0.200	172.81
NEtFOSAA_1	584.2 / 419.1	7.80	0.193	0.200	96.58
NEtFOSAA_2	584.2 / 526.0	7.79	0.190	0.200	94.77
NMeFOSE	616.1 / 58.9	10.08	2.036	2.004	101.59
NEtFOSE	630.0 / 58.9	10.38	1.919	2.008	95.58
HFPO-DA_1	284.9 / 168.9	5.77	0.829	0.801	103.48
HFPO-DA_2	284.9 / 184.9	5.77	0.830	0.801	103.64
ADONA_1	376.9 / 250.9	6.43	0.913	0.757	120.55
ADONA_2	376.9 / 84.8	6.43	0.839	0.757	110.85
9Cl-PF3ONS_1	530.8 / 351.0	8.00	0.811	0.747	108.53
9Cl-PF3ONS_2	532.8 / 353.0	8.00	0.776	0.747	103.91
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	0.882	0.755	116.80

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	0.896	0.755	118.61
3:3 FTCA_1	241.0 / 177.0	3.74	0.979	1.001	97.76
3:3 FTCA_2	241.0 / 117.0	3.73	1.083	1.001	108.17
5:3 FTCA_1	341.0 / 237.1	5.82	5.403	5.005	107.95
5:3 FTCA_2	341.0 / 217.0	5.82	5.426	5.005	108.41
7:3 FTCA_1	441.0 / 316.9	6.89	5.437	5.005	108.64
7:3 FTCA_2	441.0 / 336.9	6.89	5.071	5.005	101.33
NFDHA_1	295.0 / 201.1	5.40	0.481	0.400	120.19
NFDHA_2	295.0 / 84.9	5.40	0.454	0.400	113.59
PFEESA_1	314.8 / 134.9	5.79	0.399	0.357	111.84
PFEESA_2	314.8 / 82.9	5.79	0.392	0.357	109.71
PFMPA	229.0 / 84.9	3.17	0.398	0.400	99.55
PFMBA	279.0 / 85.1	4.82	0.413	0.400	103.24
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC63 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 8:31:12 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	1.95	18.302	19.990	91.55
PFPeA	263.0 / 219.0	4.42	8.978	9.995	89.83
PFHxA_1	313.0 / 269.0	5.50	4.441	4.998	88.86
PFHxA_2	313.0 / 118.9	5.50	4.009	4.998	80.21
PFHpA_1	363.1 / 319.0	6.22	4.646	4.998	92.96
PFHpA_2	363.1 / 169.0	6.21	4.524	4.998	90.51
PFOA_1	413.0 / 369.0	6.74	4.767	5.003	95.28
PFOA_2	413.0 / 169.0	6.67	4.884	5.003	97.62
PFNA_1	463.0 / 419.0	7.19	4.393	4.994	87.97
PFNA_2	463.0 / 219.0	7.19	4.633	4.994	92.77
PFDA_1	512.9 / 469.0	7.60	4.566	4.998	91.36
PFDA_2	512.9 / 219.0	7.60	4.372	4.998	87.47
PFUnA_1	563.1 / 519.0	7.99	4.724	4.998	94.52
PFUnA_2	563.1 / 269.1	7.99	4.474	4.998	89.52
PFDoA_1	613.1 / 569.0	8.36	4.312	4.998	86.27
PFDoA_2	613.1 / 319.0	8.36	4.830	4.998	96.63
PFTrDA_1	663.0 / 619.0	8.71	5.439	4.998	108.82
PFTrDA_2	663.0 / 168.9	8.71	5.038	4.998	100.79
PFTeDA_1	713.0 / 669.0	9.05	4.672	4.998	93.48
PFTeDA_2	713.0 / 168.9	9.05	4.621	4.998	92.46
PFBS_1	298.7 / 79.9	5.38	4.222	4.438	95.13
PFBS_2	298.9 / 98.8	5.38	4.241	4.438	95.56
PFPeS_1	349.1 / 79.9	6.22	5.012	4.698	106.69
PFPeS_2	349.1 / 98.9	6.22	4.810	4.698	102.39
PFHxS_1	398.7 / 79.9	6.80	4.186	4.560	91.80
PFHxS_2	398.7 / 98.9	6.80	4.158	4.560	91.18
PFHpS_1	449.0 / 79.9	7.28	4.217	4.758	88.62
PFHpS_2	449.0 / 98.9	7.28	4.294	4.758	90.26
PFOS_1	498.9 / 79.9	7.71	4.101	4.638	88.42
PFOS_2	498.9 / 98.9	7.71	3.975	4.638	85.70
PFNS_1	548.8 / 79.9	8.11	4.034	4.798	84.08
PFNS_2	548.8 / 98.9	8.11	4.404	4.798	91.80
PFDS_1	599.0 / 79.9	8.49	4.298	4.818	89.20
PFDS_2	599.0 / 98.9	8.49	4.490	4.818	93.20
PFDoS_1	699.1 / 79.9	9.19	4.474	4.838	92.48
PFDoS_2	699.1 / 98.9	9.19	4.645	4.838	96.01
4:2FTS_1	327.1 / 307.0	5.28	18.917	18.731	100.99
4:2FTS_2	327.1 / 80.9	5.28	19.173	18.731	102.36
6:2FTS_1	427.1 / 407.0	6.57	20.214	19.010	106.33
6:2FTS_2	427.1 / 80.9	6.57	20.547	19.010	108.09
8:2FTS_1	527.1 / 507.0	7.44	18.027	19.190	93.94
8:2FTS_2	527.1 / 80.8	7.44	17.251	19.190	89.90
PFOSA_1	498.1 / 77.9	8.05	4.672	5.017	93.12
PFOSA_2	498.1 / 478.0	8.05	3.681	5.017	73.37
NMeFOSA_1	511.9 / 219.0	10.12	4.719	5.000	94.39
NMeFOSA_2	511.9 / 169.0	10.09	4.661	5.000	93.22
NEtFOSA_1	526.0 / 219.0	10.46	4.970	5.007	99.26
NEtFOSA_2	526.0 / 169.0	10.42	5.075	5.007	101.37
NMeFOSAA_1	570.1 / 419.0	7.64	4.191	4.998	83.85
NMeFOSAA_2	570.1 / 483.0	7.64	3.977	4.998	79.56
NEtFOSAA_1	584.2 / 419.1	7.78	4.218	5.003	84.31
NEtFOSAA_2	584.2 / 526.0	7.78	4.662	5.003	93.18
NMeFOSE	616.1 / 58.9	10.08	46.304	50.035	92.54
NEtFOSE	630.0 / 58.9	10.38	45.203	50.135	90.16
HFPO-DA_1	284.9 / 168.9	5.75	18.168	19.990	90.88
HFPO-DA_2	284.9 / 184.9	5.75	19.290	19.990	96.50
ADONA_1	376.9 / 250.9	6.41	19.756	18.891	104.58
ADONA_2	376.9 / 84.8	6.41	19.369	18.891	102.53
9Cl-PF3ONS_1	530.8 / 351.0	7.98	16.856	18.651	90.37
9Cl-PF3ONS_2	532.8 / 353.0	7.98	15.887	18.651	85.18
11Cl-PF3OUdS_1	630.9 / 450.9	8.74	17.514	18.851	92.91

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	8.74	17.130	18.851	90.87
3:3 FTCA_1	241.0 / 177.0	3.73	22.905	24.988	91.67
3:3 FTCA_2	241.0 / 117.0	3.73	22.595	24.988	90.42
5:3 FTCA_1	341.0 / 237.1	5.81	119.855	124.938	95.93
5:3 FTCA_2	341.0 / 217.0	5.81	118.879	124.938	95.15
7:3 FTCA_1	441.0 / 316.9	6.87	117.897	124.938	94.36
7:3 FTCA_2	441.0 / 336.9	6.87	112.052	124.938	89.69
NFDHA_1	295.0 / 201.1	5.39	9.598	9.995	96.02
NFDHA_2	295.0 / 84.9	5.39	8.378	9.995	83.82
PFEESA_1	314.8 / 134.9	5.78	8.468	8.916	94.98
PFEESA_2	314.8 / 82.9	5.78	8.171	8.916	91.64
PFMPA	229.0 / 84.9	3.17	9.066	9.995	90.70
PFMBA	279.0 / 85.1	4.81	9.068	9.995	90.72
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MC43 ICC	**Injection Vial**	11
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:14:10 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.391	10.000	103.91
13C5-PFPeA	268.3 / 223.0	4.39	5.039	5.000	100.78
13C5-PFHxA	318.0 / 273.0	5.48	2.631	2.500	105.23
13C4-PFHpA	367.1 / 322.0	6.19	2.601	2.500	104.04
13C8-PFOA	421.1 / 376.0	6.72	2.713	2.500	108.54
13C9-PFNA	472.1 / 427.0	7.18	1.302	1.250	104.17
13C6-PFDA	519.1 / 474.1	7.59	1.290	1.250	103.22
13C7-PFUnA	570.0 / 525.1	7.97	1.408	1.250	112.63
13C2-PFDoA	615.1 / 570.0	8.34	1.481	1.250	118.47
13C2-PFTeDA	715.2 / 670.0	9.04	1.461	1.250	116.86
13C3-PFBS	302.1 / 79.9	5.36	2.325	2.330	99.79
13C3-PFHxS	402.1 / 79.9	6.78	2.249	2.370	94.88
13C8-PFOS	507.1 / 79.9	7.70	2.692	2.395	112.41
13C2-4:2FTS	329.1 / 80.9	5.27	5.194	4.690	110.74
13C2-6:2FTS	429.1 / 80.9	6.55	5.029	4.755	105.77
13C2-8:2FTS	529.1 / 80.9	7.43	4.691	4.800	97.74
13C8-PFOSA	506.1 / 77.8	8.05	2.594	2.500	103.78
D3-MeFOSA	515.0 / 219.0	10.12	2.654	2.500	106.15
D5-EtFOSA	531.1 / 219.0	10.45	2.603	2.500	104.10
d3-MeFOSAA	573.2 / 419.0	7.62	4.784	5.000	95.67
d5-EtFOSAA	589.2 / 419.0	7.77	5.596	5.000	111.91
D7-MeFOSE	623.2 / 58.9	10.06	27.331	25.000	109.32
D9-EtFOSE	639.2 / 58.9	10.35	27.020	25.000	108.08
13C3-HFPO-DA	286.9 / 168.9	5.74	9.693	10.000	96.93

Sample Name	MC59 ISC	**Injection Vial**	12
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:36:56 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.95	9.891	10.010	98.81
13C5-PFPeA	268.3 / 223.0	4.41	5.115	5.005	102.19
13C5-PFHxA	318.0 / 273.0	5.50	2.473	2.503	98.80
13C4-PFHpA	367.1 / 322.0	6.22	2.611	2.503	104.30
13C8-PFOA	421.1 / 376.0	6.75	2.595	2.503	103.66
13C9-PFNA	472.1 / 427.0	7.19	1.239	1.251	99.02
13C6-PFDA	519.1 / 474.1	7.60	1.167	1.251	93.27
13C7-PFUnA	570.0 / 525.1	7.98	1.174	1.251	93.83
13C2-PFDoA	615.1 / 570.0	8.36	1.301	1.251	104.02
13C2-PFTeDA	715.2 / 670.0	9.06	1.293	1.251	103.38
13C3-PFBS	302.1 / 79.9	5.38	2.275	2.332	97.57
13C3-PFHxS	402.1 / 79.9	6.81	2.269	2.372	95.66
13C8-PFOS	507.1 / 79.9	7.71	2.469	2.397	103.01
13C2-4:2FTS	329.1 / 80.9	5.29	5.446	4.695	115.99
13C2-6:2FTS	429.1 / 80.9	6.58	4.757	4.760	99.93
13C2-8:2FTS	529.1 / 80.9	7.44	5.137	4.805	106.90
13C8-PFOSA	506.1 / 77.8	8.07	2.579	2.503	103.04
D3-MeFOSA	515.0 / 219.0	10.13	2.547	2.503	101.75
D5-EtFOSA	531.1 / 219.0	10.46	2.538	2.503	101.39
d3-MeFOSAA	573.2 / 419.0	7.64	5.079	5.005	101.47
d5-EtFOSAA	589.2 / 419.0	7.78	5.189	5.005	103.67
D7-MeFOSE	623.2 / 58.9	10.07	27.090	25.025	108.25
D9-EtFOSE	639.2 / 58.9	10.37	25.758	25.025	102.93
13C3-HFPO-DA	286.9 / 168.9	5.76	9.539	10.010	95.30

Sample Name	MC62 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/22/2024 11:59:43 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.148	9.993	101.55
13C5-PFPeA	268.3 / 223.0	4.42	5.511	4.996	110.31
13C5-PFHxA	318.0 / 273.0	5.52	2.561	2.498	102.52
13C4-PFHpA	367.1 / 322.0	6.24	2.715	2.498	108.68
13C8-PFOA	421.1 / 376.0	6.78	2.544	2.498	101.83
13C9-PFNA	472.1 / 427.0	7.22	1.380	1.249	110.50
13C6-PFDA	519.1 / 474.1	7.63	1.254	1.249	100.36
13C7-PFUnA	570.0 / 525.1	8.00	1.331	1.249	106.53
13C2-PFDoA	615.1 / 570.0	8.37	1.354	1.249	108.42
13C2-PFTeDA	715.2 / 670.0	9.06	1.253	1.249	100.29
13C3-PFBS	302.1 / 79.9	5.39	2.394	2.328	102.85
13C3-PFHxS	402.1 / 79.9	6.84	2.366	2.368	99.94
13C8-PFOS	507.1 / 79.9	7.74	2.605	2.393	108.87
13C2-4:2FTS	329.1 / 80.9	5.30	5.273	4.687	112.50
13C2-6:2FTS	429.1 / 80.9	6.61	4.715	4.752	99.22
13C2-8:2FTS	529.1 / 80.9	7.47	4.007	4.797	83.54
13C8-PFOSA	506.1 / 77.8	8.09	2.665	2.498	106.67
D3-MeFOSA	515.0 / 219.0	10.12	2.655	2.498	106.29
D5-EtFOSA	531.1 / 219.0	10.46	2.620	2.498	104.89
d3-MeFOSAA	573.2 / 419.0	7.66	5.167	4.996	103.42
d5-EtFOSAA	589.2 / 419.0	7.81	5.738	4.996	114.84
D7-MeFOSE	623.2 / 58.9	10.07	27.040	24.982	108.24
D9-EtFOSE	639.2 / 58.9	10.36	25.593	24.982	102.45
13C3-HFPO-DA	286.9 / 168.9	5.78	11.155	9.993	111.63

Sample Name	MC63 CV	**Injection Vial**	37
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 9:07:09 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.095	9.995	101.00
13C5-PFPeA	268.3 / 223.0	4.42	5.122	4.998	102.49
13C5-PFHxA	318.0 / 273.0	5.50	2.457	2.499	98.31
13C4-PFHpA	367.1 / 322.0	6.23	2.594	2.499	103.81
13C8-PFOA	421.1 / 376.0	6.76	2.665	2.499	106.64
13C9-PFNA	472.1 / 427.0	7.20	1.192	1.249	95.41
13C6-PFDA	519.1 / 474.1	7.61	1.214	1.249	97.22
13C7-PFUnA	570.0 / 525.1	7.99	1.099	1.249	88.00
13C2-PFDoA	615.1 / 570.0	8.36	1.254	1.249	100.37
13C2-PFTeDA	715.2 / 670.0	9.05	1.233	1.249	98.70
13C3-PFBS	302.1 / 79.9	5.38	2.391	2.329	102.66
13C3-PFHxS	402.1 / 79.9	6.82	2.494	2.369	105.30
13C8-PFOS	507.1 / 79.9	7.72	2.532	2.394	105.75
13C2-4:2FTS	329.1 / 80.9	5.29	4.557	4.688	97.21
13C2-6:2FTS	429.1 / 80.9	6.59	4.682	4.753	98.51
13C2-8:2FTS	529.1 / 80.9	7.45	5.125	4.798	106.81
13C8-PFOSA	506.1 / 77.8	8.06	2.441	2.499	97.66
D3-MeFOSA	515.0 / 219.0	10.11	2.309	2.499	92.38
D5-EtFOSA	531.1 / 219.0	10.45	2.420	2.499	96.84
d3-MeFOSAA	573.2 / 419.0	7.64	5.195	4.998	103.95
d5-EtFOSAA	589.2 / 419.0	7.79	4.972	4.998	99.49
D7-MeFOSE	623.2 / 58.9	10.06	25.015	24.988	100.11
D9-EtFOSE	639.2 / 58.9	10.36	24.392	24.988	97.62
13C3-HFPO-DA	286.9 / 168.9	5.77	9.999	9.995	100.04

Sample Name	MC62 CV	**Injection Vial**	49
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 1:40:38 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.92	10.014	9.993	100.21
13C5-PFPeA	268.3 / 223.0	4.39	5.277	4.996	105.63
13C5-PFHxA	318.0 / 273.0	5.49	2.498	2.498	99.99
13C4-PFHpA	367.1 / 322.0	6.22	2.607	2.498	104.37
13C8-PFOA	421.1 / 376.0	6.75	2.525	2.498	101.08
13C9-PFNA	472.1 / 427.0	7.19	1.380	1.249	110.51
13C6-PFDA	519.1 / 474.1	7.60	1.214	1.249	97.23
13C7-PFUnA	570.0 / 525.1	7.99	1.109	1.249	88.82
13C2-PFDoA	615.1 / 570.0	8.36	1.207	1.249	96.68
13C2-PFTeDA	715.2 / 670.0	9.06	1.172	1.249	93.86
13C3-PFBS	302.1 / 79.9	5.37	2.363	2.328	101.51
13C3-PFHxS	402.1 / 79.9	6.81	2.479	2.368	104.68
13C8-PFOS	507.1 / 79.9	7.71	2.513	2.393	105.03
13C2-4:2FTS	329.1 / 80.9	5.27	4.807	4.687	102.55
13C2-6:2FTS	429.1 / 80.9	6.58	4.788	4.752	100.75
13C2-8:2FTS	529.1 / 80.9	7.44	4.578	4.797	95.44
13C8-PFOSA	506.1 / 77.8	8.05	2.382	2.498	95.37
D3-MeFOSA	515.0 / 219.0	10.12	2.525	2.498	101.10
D5-EtFOSA	531.1 / 219.0	10.45	2.464	2.498	98.63
d3-MeFOSAA	573.2 / 419.0	7.64	5.084	4.996	101.75
d5-EtFOSAA	589.2 / 419.0	7.78	5.416	4.996	108.40
D7-MeFOSE	623.2 / 58.9	10.07	25.434	24.982	101.81
D9-EtFOSE	639.2 / 58.9	10.36	24.566	24.982	98.33
13C3-HFPO-DA	286.9 / 168.9	5.75	11.024	9.993	110.32

Sample Name	MC59 CV	**Injection Vial**	6
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 5:51:39 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	9.988	10.010	99.78
13C5-PFPeA	268.3 / 223.0	4.41	4.926	5.005	98.42
13C5-PFHxA	318.0 / 273.0	5.50	2.375	2.503	94.88
13C4-PFHpA	367.1 / 322.0	6.22	2.398	2.503	95.80
13C8-PFOA	421.1 / 376.0	6.75	2.574	2.503	102.83
13C9-PFNA	472.1 / 427.0	7.20	1.241	1.251	99.21
13C6-PFDA	519.1 / 474.1	7.61	1.141	1.251	91.18
13C7-PFUnA	570.0 / 525.1	7.99	1.134	1.251	90.62
13C2-PFDoA	615.1 / 570.0	8.36	1.278	1.251	102.14
13C2-PFTeDA	715.2 / 670.0	9.06	1.164	1.251	93.08
13C3-PFBS	302.1 / 79.9	5.38	2.373	2.332	101.75
13C3-PFHxS	402.1 / 79.9	6.81	2.212	2.372	93.26
13C8-PFOS	507.1 / 79.9	7.72	2.609	2.397	108.86
13C2-4:2FTS	329.1 / 80.9	5.29	5.593	4.695	119.13
13C2-6:2FTS	429.1 / 80.9	6.58	4.953	4.760	104.05
13C2-8:2FTS	529.1 / 80.9	7.45	4.327	4.805	90.06
13C8-PFOSA	506.1 / 77.8	8.05	2.560	2.503	102.29
D3-MeFOSA	515.0 / 219.0	10.12	2.746	2.503	109.70
D5-EtFOSA	531.1 / 219.0	10.45	2.683	2.503	107.18
d3-MeFOSAA	573.2 / 419.0	7.64	5.755	5.005	114.99
d5-EtFOSAA	589.2 / 419.0	7.79	6.871	5.005	137.28
D7-MeFOSE	623.2 / 58.9	10.06	28.178	25.025	112.60
D9-EtFOSE	639.2 / 58.9	10.36	27.974	25.025	111.78
13C3-HFPO-DA	286.9 / 168.9	5.76	8.809	10.010	88.00

Sample Name	MC63 CV	**Injection Vial**	13
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 8:31:12 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	1.94	10.116	9.995	101.21
13C5-PFPeA	268.3 / 223.0	4.41	5.508	4.998	110.21
13C5-PFHxA	318.0 / 273.0	5.49	2.668	2.499	106.76
13C4-PFHpA	367.1 / 322.0	6.20	2.776	2.499	111.10
13C8-PFOA	421.1 / 376.0	6.73	2.522	2.499	100.91
13C9-PFNA	472.1 / 427.0	7.18	1.362	1.249	109.06
13C6-PFDA	519.1 / 474.1	7.59	1.306	1.249	104.53
13C7-PFUnA	570.0 / 525.1	7.98	1.343	1.249	107.54
13C2-PFDoA	615.1 / 570.0	8.35	1.290	1.249	103.30
13C2-PFTeDA	715.2 / 670.0	9.05	1.321	1.249	105.74
13C3-PFBS	302.1 / 79.9	5.37	2.526	2.329	108.47
13C3-PFHxS	402.1 / 79.9	6.79	2.511	2.369	105.99
13C8-PFOS	507.1 / 79.9	7.70	2.556	2.394	106.76
13C2-4:2FTS	329.1 / 80.9	5.27	4.517	4.688	96.35
13C2-6:2FTS	429.1 / 80.9	6.56	5.052	4.753	106.28
13C2-8:2FTS	529.1 / 80.9	7.43	5.365	4.798	111.81
13C8-PFOSA	506.1 / 77.8	8.04	2.497	2.499	99.93
D3-MeFOSA	515.0 / 219.0	10.11	2.561	2.499	102.48
D5-EtFOSA	531.1 / 219.0	10.45	2.502	2.499	100.13
d3-MeFOSAA	573.2 / 419.0	7.62	5.262	4.998	105.28
d5-EtFOSAA	589.2 / 419.0	7.77	5.964	4.998	119.32
D7-MeFOSE	623.2 / 58.9	10.06	27.064	24.988	108.31
D9-EtFOSE	639.2 / 58.9	10.36	27.309	24.988	109.29
13C3-HFPO-DA	286.9 / 168.9	5.74	10.417	9.995	104.22

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PFAS Sample Quant Report

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Sample Name	C2701-FS(0)	**Injection Vial**	42
Sample ID	WGNA-FB-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 11:01:10 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.97	13C4-PFBA	726017.11	40.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.44	13C5-PFPeA	286237.87	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.25	13C4-PFHpA	585399.29	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.25	13C4-PFHpA	585399.29	10.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.79	13C8-PFOA	665319.25	10.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.79	13C8-PFOA	665319.25	10.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.24	13C9-PFNA	273759.41	5.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.24	13C9-PFNA	273759.41	5.000	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.64	13C6-PFDA	260749.04	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.64	13C6-PFDA	260749.04	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	84974.53	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	84974.53	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	91184.25	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	91184.25	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.40	13C3-PFBS	547760.48	9.320	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.40	13C3-PFBS	547760.48	9.320	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.85	13C3-PFHxS	633576.68	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.85	13C3-PFHxS	633576.68	9.480	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.85	13C3-PFHxS	633576.68	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.85	13C3-PFHxS	633576.68	9.480	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	421371.16	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	190120.95	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.31	13C2-4:2FTS	439640.19	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.31	13C2-4:2FTS	439640.19	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.62	13C2-6:2FTS	195330.94	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.62	13C2-6:2FTS	195330.94	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	37233.64	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	37233.64	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	269458.54	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	269458.54	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	65841.01	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	65841.01	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	78749.39	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	78749.39	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	163096.88	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	163096.88	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	139526.29	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	139526.29	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	796073.62	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	821233.52	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	472485.53	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.44	13C5-PFPeA	286237.87	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.44	13C5-PFPeA	286237.87	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	299580.04	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.44	13C5-PFPeA	286237.87	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.44	13C5-PFPeA	286237.87	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2702-FS(0)	**Injection Vial**	43
Sample ID	WGNA-SW-19-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 11:23:58 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	84423.95	4.666	273.7	1.96	13C4-PFBA	647369.32	40.000				
PFPeA	263.0 / 219.0	4.46	163718.01	8.063	235.7	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.56	207083.64	7.982	319.3	5.55	13C5-PFHxA	257061.55	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.56	13378.33	8.116	281.8	5.55	13C5-PFHxA	257061.55	10.000	PFHxA	0.065	0.063	✓
PFHpA_1	363.1 / 319.0	6.29	183840.68	3.611	275.3	6.28	13C4-PFHpA	511349.35	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.28	3331.19	3.072	238.2	6.28	13C4-PFHpA	511349.35	10.000	PFHpA	0.018	0.021	✓
PFOA_1	413.0 / 369.0	6.82	455956.41	9.162	448.3	6.81	13C8-PFOA	560680.05	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.81	41257.43	7.488	2048.6	6.81	13C8-PFOA	560680.05	10.000	PFOA	0.091	0.111	✓
PFNA_1	463.0 / 419.0	7.26	34123.48	1.235	236.1	7.25	13C9-PFNA	254604.43	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.26	13330.56	0.875	403.4	7.25	13C9-PFNA	254604.43	5.000	PFNA	0.391	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.65	13C6-PFDA	247764.85	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.65	13C6-PFDA	247764.85	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.04	13C7-PFUnA	73104.53	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.04	13C7-PFUnA	73104.53	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.09	13C2-PFTeDA	42047.48	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.09	13C2-PFTeDA	42047.48	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.44	123050.31	5.220	422.0	5.43	13C3-PFBS	469437.51	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.44	53425.56	5.105	621.5	5.43	13C3-PFBS	469437.51	9.320	PFBS	0.434	0.444	✓
PFPeS_1	349.1 / 79.9	6.30	108324.52	3.357	343.8	6.87	13C3-PFHxS	586711.14	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.30	41730.22	3.045	316.8	6.87	13C3-PFHxS	586711.14	9.480	PFPeS	0.385	0.424	✓
PFHxS_1	398.7 / 79.9	6.87	1330949.56	25.395	1053.8	6.87	13C3-PFHxS	586711.14	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.87	442033.54	24.303	1455.5	6.87	13C3-PFHxS	586711.14	9.480	PFHxS	0.332	0.347	✓
PFHpS_1	449.0 / 79.9	7.35	48504.65	0.900	174.4	7.76	13C8-PFOS	376288.05	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.35	14835.41	0.920	209.1	7.76	13C8-PFOS	376288.05	9.580	PFHpS	0.306	0.299	✓
PFOS_1	498.9 / 79.9	7.77	2294855.42	44.898	591.0	7.76	13C8-PFOS	376288.05	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.77	431508.33	41.070	1218.4	7.76	13C8-PFOS	376288.05	9.580	PFOS	0.188	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	389805.59	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	389805.59	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.65	116410.38	4.556	1595.4	6.64	13C2-6:2FTS	173911.79	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.65	46466.52	4.783	280.7	6.64	13C2-6:2FTS	173911.79	19.020	6:2FTS	0.399	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.49	13C2-8:2FTS	42242.61	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.49	13C2-8:2FTS	42242.61	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.10	13C8-PFOSA	249873.92	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.10	13C8-PFOSA	249873.92	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	58179.33	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	58179.33	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	52857.69	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	52857.69	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.69	d3-MeFOSAA	148196.23	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.69	d3-MeFOSAA	148196.23	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.83	d5-EtFOSAA	120098.44	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.83	d5-EtFOSAA	120098.44	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.09	D7-MeFOSE	479048.52	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.38	D9-EtFOSE	419476.21	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2703-FS(0)	**Injection Vial**	44
Sample ID	WGNA-SW-17-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 11:46:46 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	83098.96	3.490	275.7	1.94	13C4-PFBA	851946.98	40.000				
PFPeA	263.0 / 219.0	4.43	153486.33	5.714	204.0	4.42	13C5-PFPeA	365681.97	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.53	214437.93	6.561	305.6	5.52	13C5-PFHxA	323843.80	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.53	12318.85	5.932	302.3	5.52	13C5-PFHxA	323843.80	10.000	PFHxA	0.057	0.063	✓
PFHpA_1	363.1 / 319.0	6.26	199524.10	3.175	302.4	6.24	13C4-PFHpA	631051.31	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.26	4175.02	3.120	132.6	6.24	13C4-PFHpA	631051.31	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.79	525323.94	7.359	386.4	6.77	13C8-PFOA	804250.54	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	46973.82	5.943	399.2	6.77	13C8-PFOA	804250.54	10.000	PFOA	0.089	0.111	✓
PFNA_1	463.0 / 419.0	7.23	40243.37	1.155	208.7	7.22	13C9-PFNA	321147.44	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.23	18860.12	0.982	493.7	7.22	13C9-PFNA	321147.44	5.000	PFNA	0.469	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	291151.08	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	291151.08	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	80628.76	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	80628.76	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	50031.32	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	50031.32	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.41	127190.62	4.534	456.3	5.40	13C3-PFBS	558571.07	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.41	57801.30	4.642	583.5	5.40	13C3-PFBS	558571.07	9.320	PFBS	0.454	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	112570.65	2.835	344.3	6.84	13C3-PFHxS	722041.93	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.26	45422.34	2.693	410.3	6.84	13C3-PFHxS	722041.93	9.480	PFPeS	0.404	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	1380407.15	21.402	903.0	6.84	13C3-PFHxS	722041.93	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	442865.28	19.785	1316.0	6.84	13C3-PFHxS	722041.93	9.480	PFHxS	0.321	0.347	✓
PFHpS_1	449.0 / 79.9	7.32	40607.94	0.576	163.8	7.73	13C8-PFOS	492828.72	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.32	15357.37	0.727	223.2	7.73	13C8-PFOS	492828.72	9.580	PFHpS	0.378	0.299	✓
PFOS_1	498.9 / 79.9	7.74	2037354.48	30.434	717.0	7.73	13C8-PFOS	492828.72	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.74	367224.79	26.687	1071.7	7.73	13C8-PFOS	492828.72	9.580	PFOS	0.180	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	492828.72	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	492828.72	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	492828.72	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	492828.72	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153343.86	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	497587.06	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	497587.06	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.61	39488.12	1.189	787.9	6.60	13C2-6:2FTS	226134.66	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	16390.28	1.297	163.0	6.60	13C2-6:2FTS	226134.66	19.020	6:2FTS	0.415	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	56251.70	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	56251.70	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	297645.88	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	297645.88	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	65751.71	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	65751.71	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	66014.33	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	66014.33	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	185433.67	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	185433.67	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	135020.27	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	135020.27	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	575175.26	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	515143.96	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	597835.62	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	365681.97	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	365681.97	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	323843.80	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	365681.97	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	365681.97	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2704-FS(0)	**Injection Vial**	45
Sample ID	WGNA-SW-28-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 12:09:32 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	412618.57	21.329	504.6	1.95	13C4-PFBA	692184.81	40.000				
PFPeA	263.0 / 219.0	4.43	755705.14	36.491	732.6	4.42	13C5-PFPeA	281950.36	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.53	878394.42	32.127	664.7	5.52	13C5-PFHxA	270900.94	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.53	55792.48	32.118	825.1	5.52	13C5-PFHxA	270900.94	10.000	PFHxA	0.064	0.063	✓
PFHpA_1	363.1 / 319.0	6.25	493338.94	8.958	535.2	6.24	13C4-PFHpA	553083.47	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	9914.52	8.454	46937.4	6.24	13C4-PFHpA	553083.47	10.000	PFHpA	0.020	0.021	✓
PFOA_1	413.0 / 369.0	6.78	1204514.34	21.154	765.2	6.77	13C8-PFOA	641490.82	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	101902.87	16.164	560.3	6.77	13C8-PFOA	641490.82	10.000	PFOA	0.085	0.111	✓
PFNA_1	463.0 / 419.0	7.23	47603.84	1.637	279.6	7.22	13C9-PFNA	267966.79	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.23	24213.87	1.511	553.3	7.22	13C9-PFNA	267966.79	5.000	PFNA	0.509	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.63	13C6-PFDA	261592.43	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.63	13C6-PFDA	261592.43	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	78542.44	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	78542.44	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	38857.52	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	38857.52	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.41	261788.83	10.219	855.7	5.39	13C3-PFBS	510142.22	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	120702.04	10.613	1054.6	5.39	13C3-PFBS	510142.22	9.320	PFBS	0.461	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	378941.98	11.659	805.6	6.83	13C3-PFHxS	591053.60	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.25	161581.16	11.704	742.1	6.83	13C3-PFHxS	591053.60	9.480	PFPeS	0.426	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	4100077.79	77.657	1921.5	6.83	13C3-PFHxS	591053.60	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	1357478.93	74.085	1909.7	6.83	13C3-PFHxS	591053.60	9.480	PFHxS	0.331	0.347	✓
PFHpS_1	449.0 / 79.9	7.32	214679.70	3.417	488.9	7.74	13C8-PFOS	438812.01	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.32	67504.34	3.590	702.9	7.74	13C8-PFOS	438812.01	9.580	PFHpS	0.314	0.299	✓
PFOS_1	498.9 / 79.9	7.75	11041595.69	185.243	1043.9	7.74	13C8-PFOS	438812.01	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.74	2091248.46	170.682	1838.5	7.74	13C8-PFOS	438812.01	9.580	PFOS	0.189	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	438812.01	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	438812.01	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	438812.01	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	438812.01	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	129257.31	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	5.31	3229.45	0.407	324.4	5.30	13C2-4:2FTS	412789.76	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.31	10808.50	0.461	73.8	5.30	13C2-4:2FTS	412789.76	18.760	4:2FTS	3.347	2.959	✓
6:2FTS_1	427.1 / 407.0	6.61	1235627.72	48.800	3824.4	6.60	13C2-6:2FTS	172343.14	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	477657.40	49.613	1104.8	6.60	13C2-6:2FTS	172343.14	19.020	6:2FTS	0.387	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	37837.41	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	37837.41	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	255011.34	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	255011.34	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	57904.19	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	57904.19	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	57695.21	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	57695.21	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	152155.60	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	152155.60	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	126218.84	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	126218.84	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	476948.43	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	405055.18	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	458625.78	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	281950.36	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	281950.36	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.84	8426.77	1.552	128.4	5.52	13C5-PFHxA	270900.94	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.84	3527.48	1.478	140.4	5.52	13C5-PFHxA	270900.94	10.000	5:3 FTCA	0.419	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	270900.94	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	281950.36	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	281950.36	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2705-FS(0)	**Injection Vial**	46
Sample ID	WGNA-SW-14-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 12:32:18 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	66776.75	3.433	288.7	1.96	13C4-PFBA	695898.48	40.000				
PFPeA	263.0 / 219.0	4.44	108377.56	4.993	232.0	4.43	13C5-PFPeA	295544.48	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.53	174764.10	6.307	295.0	5.52	13C5-PFHxA	274553.21	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.53	8670.22	4.925	231.4	5.52	13C5-PFHxA	274553.21	10.000	PFHxA	0.050	0.063	✓
PFHpA_1	363.1 / 319.0	6.25	151947.00	2.907	262.0	6.24	13C4-PFHpA	524909.53	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	3665.52	3.293	156.2	6.24	13C4-PFHpA	524909.53	10.000	PFHpA	0.024	0.021	✓
PFOA_1	413.0 / 369.0	6.77	439184.87	7.785	440.5	6.76	13C8-PFOA	635549.99	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.75	40698.43	6.516	505.3	6.76	13C8-PFOA	635549.99	10.000	PFOA	0.093	0.111	✓
PFNA_1	463.0 / 419.0	7.22	36657.91	1.288	253.6	7.21	13C9-PFNA	262286.67	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	14340.12	0.914	332.9	7.21	13C9-PFNA	262286.67	5.000	PFNA	0.391	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	243316.58	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	243316.58	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	83828.65	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	83828.65	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	44061.18	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	44061.18	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.41	113484.67	4.557	514.2	5.40	13C3-PFBS	495846.96	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	48054.56	4.347	588.8	5.40	13C3-PFBS	495846.96	9.320	PFBS	0.423	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	81597.15	2.752	338.4	6.83	13C3-PFHxS	539101.82	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.26	33521.05	2.662	329.8	6.83	13C3-PFHxS	539101.82	9.480	PFPeS	0.411	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	947347.82	19.672	1022.0	6.83	13C3-PFHxS	539101.82	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	307980.33	18.428	1492.4	6.83	13C3-PFHxS	539101.82	9.480	PFHxS	0.325	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	31114.71	0.542	148.3	7.73	13C8-PFOS	400783.82	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	10844.29	0.631	194.3	7.73	13C8-PFOS	400783.82	9.580	PFHpS	0.349	0.299	✓
PFOS_1	498.9 / 79.9	7.73	1574756.06	28.926	461.6	7.73	13C8-PFOS	400783.82	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	285529.52	25.515	662.0	7.73	13C8-PFOS	400783.82	9.580	PFOS	0.181	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	400783.82	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	400783.82	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	400783.82	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	400783.82	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	156160.77	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	407757.37	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	407757.37	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.60	25069.70	0.895	1012.0	6.59	13C2-6:2FTS	190711.74	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.60	8642.39	0.811	99.6	6.59	13C2-6:2FTS	190711.74	19.020	6:2FTS	0.345	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40880.66	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	40880.66	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	255886.12	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	255886.12	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	66102.53	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	66102.53	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	68058.92	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	68058.92	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	158539.25	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	158539.25	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	135602.45	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.79	d5-EtFOSAA	135602.45	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	561046.12	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	501017.94	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	466613.07	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	295544.48	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	295544.48	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	274553.21	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	295544.48	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	295544.48	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2706-FS(0)	**Injection Vial**	47
Sample ID	WGNA-SW-63-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 12:55:08 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	56149.52	2.983	242.8	1.95	13C4-PFBA	673408.12	40.000				
PFPeA	263.0 / 219.0	4.45	75092.62	3.471	166.7	4.43	13C5-PFPeA	294563.57	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.54	118196.96	4.400	273.1	5.52	13C5-PFHxA	266141.05	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.54	6824.71	3.999	215.9	5.52	13C5-PFHxA	266141.05	10.000	PFHxA	0.058	0.063	✓
PFHpA_1	363.1 / 319.0	6.26	139061.99	2.476	274.3	6.25	13C4-PFHpA	564096.61	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	2787.89	2.331	197.3	6.25	13C4-PFHpA	564096.61	10.000	PFHpA	0.020	0.021	✓
PFOA_1	413.0 / 369.0	6.79	401416.16	6.773	380.8	6.78	13C8-PFOA	667719.84	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	34773.12	5.299	299.4	6.78	13C8-PFOA	667719.84	10.000	PFOA	0.087	0.111	✓
PFNA_1	463.0 / 419.0	7.24	34510.74	1.180	146.5	7.23	13C9-PFNA	269425.54	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.24	15234.51	0.945	227.9	7.23	13C9-PFNA	269425.54	5.000	PFNA	0.441	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.64	13C6-PFDA	231614.13	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.64	13C6-PFDA	231614.13	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	78590.19	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	78590.19	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	48777.66	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	48777.66	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.42	90432.16	3.530	463.6	5.41	13C3-PFBS	510134.59	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.42	40850.46	3.592	591.1	5.41	13C3-PFBS	510134.59	9.320	PFBS	0.452	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	50217.83	1.428	237.7	6.84	13C3-PFHxS	639298.37	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.26	25183.02	1.686	317.3	6.84	13C3-PFHxS	639298.37	9.480	PFPeS	0.502	0.424	✓
PFHxS_1	398.7 / 79.9	6.85	573076.60	10.035	757.0	6.84	13C3-PFHxS	639298.37	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.85	182179.13	9.192	648.5	6.84	13C3-PFHxS	639298.37	9.480	PFHxS	0.318	0.347	✓
PFHpS_1	449.0 / 79.9	7.33	24994.80	0.402	118.9	7.74	13C8-PFOS	434267.25	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.32	7379.40	0.397	125.2	7.74	13C8-PFOS	434267.25	9.580	PFHpS	0.295	0.299	✓
PFOS_1	498.9 / 79.9	7.75	1128643.58	19.133	433.5	7.74	13C8-PFOS	434267.25	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.75	205389.15	16.939	576.4	7.74	13C8-PFOS	434267.25	9.580	PFOS	0.182	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	434267.25	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	434267.25	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	434267.25	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	434267.25	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	155175.96	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.31	13C2-4:2FTS	428028.90	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.31	13C2-4:2FTS	428028.90	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.62	14910.15	0.499	1067.8	6.61	13C2-6:2FTS	203296.44	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	6171.53	0.543	89.9	6.61	13C2-6:2FTS	203296.44	19.020	6:2FTS	0.414	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	46228.88	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	46228.88	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	267723.25	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	267723.25	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	71236.21	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	71236.21	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	67838.79	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	67838.79	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	167983.56	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	167983.56	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	142528.12	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	142528.12	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	558578.47	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	493947.18	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.79	13C3-HFPO-DA	510771.28	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	294563.57	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	294563.57	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	266141.05	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	294563.57	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	294563.57	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MB88 IB	**Injection Vial**	50
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 2:03:28 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.95	13C4-PFBA	1019975.73	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	419062.65	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.23	13C4-PFHpA	797128.25	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.23	13C4-PFHpA	797128.25	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.76	13C8-PFOA	946270.99	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.76	13C8-PFOA	946270.99	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.21	13C9-PFNA	397188.97	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.21	13C9-PFNA	397188.97	1.250	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	371829.92	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.62	13C6-PFDA	371829.92	1.250	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	130879.19	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	130879.19	1.250	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	155941.98	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.07	13C2-PFTeDA	155941.98	1.250	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	757368.16	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	757368.16	2.330	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	890005.27	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	890005.27	2.370	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	890005.27	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	890005.27	2.370	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	607070.74	2.395	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	306198.10	1.250	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	646383.60	4.690	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	646383.60	4.690	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	236626.37	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	236626.37	4.755	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	57900.74	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	57900.74	4.800	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	418640.63	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	418640.63	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	140142.93	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	140142.93	2.500	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	162474.07	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	162474.07	2.500	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	273225.55	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	273225.55	5.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	220838.49	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	220838.49	5.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	1210609.23	25.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	1379947.68	25.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	733893.13	10.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	419062.65	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	419062.65	5.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	457251.92	2.500	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	419062.65	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	419062.65	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2707-FS(0)	**Injection Vial**	51
Sample ID	WGNA-SW-10-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 2:26:18 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	40939.58	2.166	242.8	1.94	13C4-PFBA	676345.93	40.000				
PFPeA	263.0 / 219.0	4.44	48139.83	2.118	128.6	4.43	13C5-PFPeA	309502.91	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.53	68453.43	2.431	223.3	5.52	13C5-PFHxA	278944.75	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.54	4226.72	2.363	127.0	5.52	13C5-PFHxA	278944.75	10.000	PFHxA	0.062	0.063	✓
PFHpA_1	363.1 / 319.0	6.26	91185.93	1.550	191.7	6.24	13C4-PFHpA	591020.59	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	1722.93	1.375	89.0	6.24	13C4-PFHpA	591020.59	10.000	PFHpA	0.019	0.021	✓
PFOA_1	413.0 / 369.0	6.78	259631.09	4.425	328.4	6.77	13C8-PFOA	660993.61	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	24580.83	3.784	407.3	6.77	13C8-PFOA	660993.61	10.000	PFOA	0.095	0.111	✓
PFNA_1	463.0 / 419.0	7.22	29708.11	0.985	133.8	7.21	13C9-PFNA	277802.07	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.23	12105.32	0.728	196.5	7.21	13C9-PFNA	277802.07	5.000	PFNA	0.408	0.551	✓
PFDA_1	512.9 / 469.0	7.63	6432.25	0.187	96.2	7.62	13C6-PFDA	248408.30	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.63	250.84	0.139	154061.2	7.62	13C6-PFDA	248408.30	5.000	PFDA	0.039	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	85590.81	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.00	13C7-PFUnA	85590.81	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	43593.05	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	43593.05	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.41	63768.81	2.620	385.6	5.40	13C3-PFBS	484713.30	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.41	29390.39	2.720	407.1	5.40	13C3-PFBS	484713.30	9.320	PFBS	0.461	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	8672.33	0.269	70.5	6.83	13C3-PFHxS	585400.72	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.26	2726.03	0.199	52.8	6.83	13C3-PFHxS	585400.72	9.480	PFPeS	0.314	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	71692.93	1.371	373.5	6.83	13C3-PFHxS	585400.72	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	23006.26	1.268	749.0	6.83	13C3-PFHxS	585400.72	9.480	PFHxS	0.321	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	7.64	197365.84	3.534	190.3	7.73	13C8-PFOS	411193.80	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.74	29978.28	2.611	181.8	7.73	13C8-PFOS	411193.80	9.580	PFOS	0.152	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.73	13C8-PFOS	411193.80	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	148327.55	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	447356.39	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	447356.39	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.61	13C2-6:2FTS	199689.59	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.61	13C2-6:2FTS	199689.59	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	44082.32	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.46	13C2-8:2FTS	44082.32	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	262854.39	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	262854.39	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	69039.19	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	69039.19	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	68984.12	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	68984.12	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	171195.17	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.65	d3-MeFOSAA	171195.17	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	136564.88	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.80	d5-EtFOSAA	136564.88	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	552739.92	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	478060.29	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	479890.69	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	309502.91	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	309502.91	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	278944.75	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	309502.91	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	309502.91	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2708-FS(0)	**Injection Vial**	52
Sample ID	WGNA-SW-05-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 2:49:07 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	94925.89	4.181	315.7	1.96	13C4-PFBA	812436.25	40.000				
PFPeA	263.0 / 219.0	4.48	169058.97	6.654	310.6	4.47	13C5-PFPeA	345891.36	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.56	265884.38	8.880	313.2	5.55	13C5-PFHxA	296675.80	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.56	17356.53	9.124	377.7	5.55	13C5-PFHxA	296675.80	10.000	PFHxA	0.065	0.063	✓
PFHpA_1	363.1 / 319.0	6.28	269657.63	4.435	239.5	6.27	13C4-PFHpA	610643.49	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.28	6052.34	4.674	305.2	6.27	13C4-PFHpA	610643.49	10.000	PFHpA	0.022	0.021	✓
PFOA_1	413.0 / 369.0	6.80	791011.44	12.168	401.1	6.79	13C8-PFOA	732401.87	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.79	70358.17	9.775	448.7	6.79	13C8-PFOA	732401.87	10.000	PFOA	0.089	0.111	✓
PFNA_1	463.0 / 419.0	7.25	50787.93	1.444	309.3	7.24	13C9-PFNA	324075.20	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.25	21263.16	1.097	364.8	7.24	13C9-PFNA	324075.20	5.000	PFNA	0.419	0.551	✓
PFDA_1	512.9 / 469.0	7.66	6823.55	0.178	76.3	7.64	13C6-PFDA	277212.67	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.67	324.48	0.162	1640.2	7.64	13C6-PFDA	277212.67	5.000	PFDA	0.048	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	88796.52	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	88796.52	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	47833.69	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	47833.69	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.44	184949.58	6.695	545.2	5.43	13C3-PFBS	550089.44	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.44	87339.20	7.122	675.7	5.43	13C3-PFBS	550089.44	9.320	PFBS	0.472	0.444	✓
PFPeS_1	349.1 / 79.9	6.29	164066.18	4.326	386.3	6.85	13C3-PFHxS	689596.97	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.29	70300.34	4.364	440.1	6.85	13C3-PFHxS	689596.97	9.480	PFPeS	0.429	0.424	✓
PFHxS_1	398.7 / 79.9	6.86	1889993.31	30.682	1008.0	6.85	13C3-PFHxS	689596.97	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.86	611613.20	28.609	1478.7	6.85	13C3-PFHxS	689596.97	9.480	PFHxS	0.324	0.347	✓
PFHpS_1	449.0 / 79.9	7.34	77255.38	1.168	230.4	7.75	13C8-PFOS	462119.92	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.34	26755.29	1.351	292.3	7.75	13C8-PFOS	462119.92	9.580	PFHpS	0.346	0.299	✓
PFOS_1	498.9 / 79.9	7.76	3581207.12	57.051	907.8	7.75	13C8-PFOS	462119.92	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.76	679984.02	52.699	1576.6	7.75	13C8-PFOS	462119.92	9.580	PFOS	0.190	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	462119.92	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	462119.92	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	462119.92	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	462119.92	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	153160.68	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	451638.64	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	451638.64	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.63	63848.41	1.878	1124.9	6.62	13C2-6:2FTS	231453.77	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.63	24061.38	1.861	210.3	6.62	13C2-6:2FTS	231453.77	19.020	6:2FTS	0.377	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	51004.68	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	51004.68	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.09	13C8-PFOSA	291435.86	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.09	13C8-PFOSA	291435.86	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	63775.28	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	63775.28	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	63023.06	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	63023.06	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.68	d3-MeFOSAA	171880.32	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.68	d3-MeFOSAA	171880.32	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.82	d5-EtFOSAA	146674.24	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.82	d5-EtFOSAA	146674.24	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	545826.86	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	476670.64	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	550233.86	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.47	13C5-PFPeA	345891.36	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.47	13C5-PFPeA	345891.36	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	296675.80	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.47	13C5-PFPeA	345891.36	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.47	13C5-PFPeA	345891.36	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2709-FS(0)	**Injection Vial**	53
Sample ID	WGNA-SW-04-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:11:54 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	98303.19	4.564	278.8	1.96	13C4-PFBA	770619.53	40.000				
PFPeA	263.0 / 219.0	4.47	192929.98	8.051	296.6	4.46	13C5-PFPeA	326252.68	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.56	304028.47	10.342	351.0	5.55	13C5-PFHxA	291280.87	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.56	20177.09	10.803	418.2	5.55	13C5-PFHxA	291280.87	10.000	PFHxA	0.066	0.063	✓
PFHpA_1	363.1 / 319.0	6.29	301104.22	4.980	338.2	6.28	13C4-PFHpA	607245.98	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.29	5943.90	4.616	425.8	6.28	13C4-PFHpA	607245.98	10.000	PFHpA	0.020	0.021	✓
PFOA_1	413.0 / 369.0	6.81	900057.17	14.097	470.3	6.80	13C8-PFOA	719292.34	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.79	80236.82	11.351	585.9	6.80	13C8-PFOA	719292.34	10.000	PFOA	0.089	0.111	✓
PFNA_1	463.0 / 419.0	7.25	63782.37	2.070	321.0	7.24	13C9-PFNA	283901.62	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.25	24662.65	1.452	418.6	7.24	13C9-PFNA	283901.62	5.000	PFNA	0.387	0.551	✓
PFDA_1	512.9 / 469.0	7.65	7218.82	0.195	60.1	7.64	13C6-PFDA	268018.54	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.66	568.00	0.293	1742793.8	7.64	13C6-PFDA	268018.54	5.000	PFDA	0.079	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	87188.92	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.02	13C7-PFUnA	87188.92	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	52801.92	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.08	13C2-PFTeDA	52801.92	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.44	224739.43	8.169	565.2	5.43	13C3-PFBS	547820.53	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.44	96032.69	7.863	783.3	5.43	13C3-PFBS	547820.53	9.320	PFBS	0.427	0.444	✓
PFPeS_1	349.1 / 79.9	6.29	194760.99	5.150	441.2	6.86	13C3-PFHxS	687689.63	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.29	81744.76	5.089	482.0	6.86	13C3-PFHxS	687689.63	9.480	PFPeS	0.420	0.424	✓
PFHxS_1	398.7 / 79.9	6.87	2454824.94	39.962	1510.7	6.86	13C3-PFHxS	687689.63	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.87	801081.66	37.576	1835.6	6.86	13C3-PFHxS	687689.63	9.480	PFHxS	0.326	0.347	✓
PFHpS_1	449.0 / 79.9	7.34	98776.27	1.430	155.2	7.75	13C8-PFOS	482553.48	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.33	35975.51	1.740	410.2	7.75	13C8-PFOS	482553.48	9.580	PFHpS	0.364	0.299	✓
PFOS_1	498.9 / 79.9	7.76	5449620.66	83.140	1012.2	7.75	13C8-PFOS	482553.48	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.75	1013766.71	75.241	1737.1	7.75	13C8-PFOS	482553.48	9.580	PFOS	0.186	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	482553.48	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	482553.48	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	482553.48	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.75	13C8-PFOS	482553.48	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.39	13C2-PFDoA	144632.17	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	485414.58	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	485414.58	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.64	104250.21	3.268	1226.6	6.63	13C2-6:2FTS	217141.03	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.64	35880.20	2.958	231.4	6.63	13C2-6:2FTS	217141.03	19.020	6:2FTS	0.344	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	41798.39	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.48	13C2-8:2FTS	41798.39	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.09	13C8-PFOSA	286160.16	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.09	13C8-PFOSA	286160.16	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	71099.57	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.13	D3-MeFOSA	71099.57	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69404.96	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	69404.96	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	178546.30	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.67	d3-MeFOSAA	178546.30	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	146546.78	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	146546.78	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.08	D7-MeFOSE	566263.14	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.37	D9-EtFOSE	506349.86	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.84	1533.44	0.094	431.0	5.81	13C3-HFPO-DA	543006.16	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.81	299.87	0.114	55.1	5.81	13C3-HFPO-DA	543006.16	40.000	HFPO-DA	0.196	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.81	13C3-HFPO-DA	543006.16	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.46	13C5-PFPeA	326252.68	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.46	13C5-PFPeA	326252.68	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	291280.87	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.46	13C5-PFPeA	326252.68	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.46	13C5-PFPeA	326252.68	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2710-FS(0)	**Injection Vial**	54
Sample ID	WGNA-SW-64-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:34:43 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	51593.06	2.423	276.2	1.96	13C4-PFBA	761826.68	40.000				
PFPeA	263.0 / 219.0	4.43	50539.38	2.098	174.2	4.42	13C5-PFPeA	327968.38	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.43	86753.06	2.850	184.6	5.42	13C5-PFHxA	301583.34	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.43	4787.81	2.476	165.2	5.42	13C5-PFHxA	301583.34	10.000	PFHxA	0.055	0.063	✓
PFHpA_1	363.1 / 319.0	6.18	101846.93	1.663	250.1	6.17	13C4-PFHpA	614939.84	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.19	2145.98	1.646	1416.7	6.17	13C4-PFHpA	614939.84	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.73	355262.42	5.952	370.9	6.72	13C8-PFOA	672500.51	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.72	36905.23	5.584	443.3	6.72	13C8-PFOA	672500.51	10.000	PFOA	0.104	0.111	✓
PFNA_1	463.0 / 419.0	7.19	30636.13	0.909	180.7	7.18	13C9-PFNA	310642.13	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	11944.05	0.643	267.2	7.18	13C9-PFNA	310642.13	5.000	PFNA	0.390	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	250672.57	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	250672.57	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	90849.65	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	90849.65	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	57213.97	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	57213.97	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.32	132381.34	4.859	566.5	5.31	13C3-PFBS	542507.31	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.32	62204.44	5.143	608.6	5.31	13C3-PFBS	542507.31	9.320	PFBS	0.470	0.444	✓
PFPeS_1	349.1 / 79.9	6.19	13085.65	0.373	121.5	6.78	13C3-PFHxS	638054.66	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.18	4319.28	0.290	89.1	6.78	13C3-PFHxS	638054.66	9.480	PFPeS	0.330	0.424	✓
PFHxS_1	398.7 / 79.9	6.79	127097.04	2.230	454.3	6.78	13C3-PFHxS	638054.66	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.79	44164.97	2.233	534.2	6.78	13C3-PFHxS	638054.66	9.480	PFHxS	0.348	0.347	✓
PFHpS_1	449.0 / 79.9	7.28	8866.50	0.138	58.1	7.70	13C8-PFOS	448386.76	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.28	3096.08	0.161	62.7	7.70	13C8-PFOS	448386.76	9.580	PFHpS	0.349	0.299	✓
PFOS_1	498.9 / 79.9	7.61	289390.75	4.751	177.8	7.70	13C8-PFOS	448386.76	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	41027.02	3.277	232.7	7.70	13C8-PFOS	448386.76	9.580	PFOS	0.142	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	448386.76	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	448386.76	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	448386.76	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	448386.76	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	145975.58	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.21	13C2-4:2FTS	450362.62	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.21	13C2-4:2FTS	450362.62	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	207534.11	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	207534.11	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	51048.57	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	51048.57	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	274844.40	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	274844.40	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	65772.44	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	65772.44	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	64409.77	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	64409.77	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	164482.36	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	164482.36	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	133977.17	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	133977.17	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	583850.10	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	527823.56	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.69	13C3-HFPO-DA	502278.27	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	327968.38	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	327968.38	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.42	13C5-PFHxA	301583.34	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	327968.38	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	327968.38	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2710MS-FS(0)	**Injection Vial**	1
Sample ID	WGNA-SW-64-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 3:57:34 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	801112.75	38.685	750.9	1.96	13C4-PFBA	740947.35	40.000				
PFPeA	263.0 / 219.0	4.44	447448.58	18.986	526.8	4.43	13C5-PFPeA	320858.25	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.52	342237.20	11.960	392.8	5.50	13C5-PFHxA	283518.84	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.52	21613.20	11.888	444.4	5.50	13C5-PFHxA	283518.84	10.000	PFHxA	0.063	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	615420.07	10.524	519.2	6.22	13C4-PFHpA	587308.48	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	13502.62	10.843	438.3	6.22	13C4-PFHpA	587308.48	10.000	PFHpA	0.022	0.021	✓
PFOA_1	413.0 / 369.0	6.77	1035324.10	17.607	602.4	6.76	13C8-PFOA	662470.92	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.77	70422.35	10.817	893.7	6.76	13C8-PFOA	662470.92	10.000	PFOA	0.068	0.111	✓
PFNA_1	463.0 / 419.0	7.22	368066.77	12.980	778.2	7.21	13C9-PFNA	261274.07	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.22	144225.40	9.228	1256.0	7.21	13C9-PFNA	261274.07	5.000	PFNA	0.392	0.551	✓
PFDA_1	512.9 / 469.0	7.63	324495.38	8.563	956.9	7.61	13C6-PFDA	274253.97	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.63	17212.75	8.669	210124.5	7.61	13C6-PFDA	274253.97	5.000	PFDA	0.053	0.053	✓
PFUnA_1	563.1 / 519.0	8.01	194731.86	9.697	695.8	7.99	13C7-PFUnA	80622.22	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	8.01	10190.87	10.539	3678.0	7.99	13C7-PFUnA	80622.22	5.000	PFUnA	0.052	0.048	✓
PFDoA_1	613.1 / 569.0	8.37	117138.34	9.155	728.2	8.36	13C2-PFDoA	148332.72	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	8.37	39012.92	10.182	1617.5	8.36	13C2-PFDoA	148332.72	5.000	PFDoA	0.333	0.300	✓
PFTrDA_1	663.0 / 619.0	8.73	253901.55	7.588	795.5	8.36	13C2-PFDoA	148332.72	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	8.72	15781.17	7.826	1734.9	8.36	13C2-PFDoA	148332.72	5.000	PFTrDA	0.062	0.060	✓
PFTeDA_1	713.0 / 669.0	9.06	146195.81	9.747	752.5	9.05	13C2-PFTeDA	45673.20	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.06	7582.54	8.840	12144.8	9.05	13C2-PFTeDA	45673.20	5.000	PFTeDA	0.052	0.057	✓
PFBS_1	298.7 / 79.9	5.40	333016.18	12.383	904.8	5.38	13C3-PFBS	535495.12	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	141099.54	11.819	994.2	5.38	13C3-PFBS	535495.12	9.320	PFBS	0.424	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	332670.51	9.394	635.0	6.82	13C3-PFHxS	643958.13	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	139158.47	9.252	842.6	6.82	13C3-PFHxS	643958.13	9.480	PFPeS	0.418	0.424	✓
PFHxS_1	398.7 / 79.9	6.83	563238.01	9.792	761.8	6.82	13C3-PFHxS	643958.13	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.83	192681.38	9.652	997.9	6.82	13C3-PFHxS	643958.13	9.480	PFHxS	0.342	0.347	✓
PFHpS_1	449.0 / 79.9	7.31	576677.25	9.579	959.8	7.72	13C8-PFOS	420474.22	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.31	173563.86	9.633	1109.4	7.72	13C8-PFOS	420474.22	9.580	PFHpS	0.301	0.299	✓
PFOS_1	498.9 / 79.9	7.73	774545.28	13.561	549.3	7.72	13C8-PFOS	420474.22	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.73	147180.74	12.536	844.0	7.72	13C8-PFOS	420474.22	9.580	PFOS	0.190	0.206	✓
PFNS_1	548.8 / 79.9	8.13	235976.51	8.265	977.8	7.72	13C8-PFOS	420474.22	9.580	PFNS			
PFNS_2	548.8 / 98.9	8.13	54393.26	9.557	3044.5	7.72	13C8-PFOS	420474.22	9.580	PFNS	0.231	0.200	✓
PFDS_1	599.0 / 79.9	8.50	296566.88	7.182	1178.8	7.72	13C8-PFOS	420474.22	9.580	PFDS			
PFDS_2	599.0 / 98.9	8.50	82313.28	7.146	1165.5	7.72	13C8-PFOS	420474.22	9.580	PFDS	0.278	0.279	✓
PFDoS_1	699.1 / 79.9	9.19	176768.82	5.831	893.1	8.36	13C2-PFDoA	148332.72	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	9.19	56370.58	6.198	1256.2	8.36	13C2-PFDoA	148332.72	5.000	PFDoS	0.319	0.300	✓
4:2FTS_1	327.1 / 307.0	5.30	283697.63	35.819	3124.6	5.29	13C2-4:2FTS	412183.16	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.30	844210.45	36.060	806.7	5.29	13C2-4:2FTS	412183.16	18.760	4:2FTS	2.976	2.959	✓
6:2FTS_1	427.1 / 407.0	6.59	1056963.60	35.770	3711.5	6.58	13C2-6:2FTS	201128.02	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	400042.47	35.604	988.3	6.58	13C2-6:2FTS	201128.02	19.020	6:2FTS	0.379	0.380	✓
8:2FTS_1	527.1 / 507.0	7.46	1058799.06	40.082	3471.2	7.45	13C2-8:2FTS	46612.13	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.46	114159.33	40.956	451.5	7.45	13C2-8:2FTS	46612.13	19.200	8:2FTS	0.108	0.105	✓
PFOSA_1	498.1 / 77.9	8.07	358841.02	9.659	2459.0	8.06	13C8-PFOSA	300662.55	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	8.07	1597.54	7.000	1457.7	8.06	13C8-PFOSA	300662.55	10.000	PFOSA	0.005	0.006	✓
NMeFOSA_1	511.9 / 219.0	10.12	15573.74	9.122	727.4	10.12	D3-MeFOSA	68270.07	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.12	10667.01	6.565	551.7	10.12	D3-MeFOSA	68270.07	10.000	NMeFOSA	0.685	0.952	✓
NEtFOSA_1	526.0 / 219.0	10.46	15067.71	9.994	699.9	10.45	D5-EtFOSA	64879.91	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.46	11034.45	7.991	649.0	10.45	D5-EtFOSA	64879.91	10.000	NEtFOSA	0.732	0.917	✓
NMeFOSAA_1	570.1 / 419.0	7.66	62032.45	7.764	4492937.1	7.65	d3-MeFOSAA	172863.09	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	7.66	7563.84	9.919	512.4	7.65	d3-MeFOSAA	172863.09	20.000	NMeFOSAA	0.122	0.095	✓
NEtFOSAA_1	584.2 / 419.1	7.80	60307.09	8.820	494.1	7.79	d5-EtFOSAA	137142.73	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	7.80	90193.01	9.135	3401.9	7.79	d5-EtFOSAA	137142.73	20.000	NEtFOSAA	1.496	1.455	✓
NMeFOSE	616.1 / 58.9	10.09	431823.19	94.821	1479.3	10.06	D7-MeFOSE	521926.86	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.38	352753.71	99.554	795.2	10.36	D9-EtFOSE	471746.54	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.77	540560.51	37.823	4196.4	5.76	13C3-HFPO-DA	473987.00	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.77	81625.26	35.423	1243.1	5.76	13C3-HFPO-DA	473987.00	40.000	HFPO-DA	0.151	0.162	✓
ADONA_1	376.9 / 250.9	6.43	3719445.38	38.423	4119.5	5.76	13C3-HFPO-DA	473987.00	40.000	ADONA			
ADONA_2	376.9 / 84.8	6.43	46047.21	37.590	1519.2	5.76	13C3-HFPO-DA	473987.00	40.000	ADONA	0.012	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.00	2171858.30	33.255	3267.4	5.76	13C3-HFPO-DA	473987.00	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.00	641590.48	29.887	3440.1	5.76	13C3-HFPO-DA	473987.00	40.000	9Cl-PF3ONS	0.295	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.75	1581798.26	24.684	2977.0	5.76	13C3-HFPO-DA	473987.00	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.75	519706.33	23.862	2759.6	5.76	13C3-HFPO-DA	473987.00	40.000	11Cl-PF3OUdS	0.329	0.340	✓
3:3 FTCA_1	241.0 / 177.0	3.77	74180.94	45.921	1956.3	4.43	13C5-PFPeA	320858.25	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	3.77	3934.89	49.400	290.3	4.43	13C5-PFPeA	320858.25	20.000	3:3 FTCA	0.053	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.82	1333204.67	234.684	2089.0	5.50	13C5-PFHxA	283518.84	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.82	605627.67	242.520	1815.7	5.50	13C5-PFHxA	283518.84	10.000	5:3 FTCA	0.454	0.440	✓
7:3 FTCA_1	441.0 / 316.9	6.90	758817.07	251.481	2479.7	5.50	13C5-PFHxA	283518.84	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	6.89	1488395.43	252.031	1750.0	5.50	13C5-PFHxA	283518.84	10.000	7:3 FTCA	1.962	1.955	✓
NFDHA_1	295.0 / 201.1	5.40	54972.99	21.124	1297.9	5.50	13C5-PFHxA	283518.84	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	5.40	36418.99	19.028	452.6	5.50	13C5-PFHxA	283518.84	10.000	NFDHA	0.663	0.736	✓
PFEESA_1	314.8 / 134.9	5.79	1767528.74	17.163	2597.3	5.50	13C5-PFHxA	283518.84	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	5.79	78814.84	16.070	661.1	5.50	13C5-PFHxA	283518.84	10.000	PFEESA	0.045	0.048	✓
PFMPA	229.0 / 84.9	3.23	283713.05	15.366	1797.5	4.43	13C5-PFPeA	320858.25	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.82	349391.40	16.521	1384.7	4.43	13C5-PFPeA	320858.25	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2710MSD-FS(0)	**Injection Vial**	2
Sample ID	WGNA-SW-64-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 4:20:22 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	769157.44	38.613	821.9	1.96	13C4-PFBA	712715.38	40.000				
PFPeA	263.0 / 219.0	4.47	419802.87	19.575	503.1	4.45	13C5-PFPeA	291983.34	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.54	321310.90	12.625	375.3	5.53	13C5-PFHxA	252163.57	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.54	19984.19	12.359	469.9	5.53	13C5-PFHxA	252163.57	10.000	PFHxA	0.062	0.063	✓
PFHpA_1	363.1 / 319.0	6.27	572680.67	10.913	432.5	6.26	13C4-PFHpA	527034.40	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.27	11848.02	10.602	1812.7	6.26	13C4-PFHpA	527034.40	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.79	968817.05	16.529	686.8	6.78	13C8-PFOA	660329.58	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.79	66921.84	10.313	987.4	6.78	13C8-PFOA	660329.58	10.000	PFOA	0.069	0.111	✓
PFNA_1	463.0 / 419.0	7.24	335014.11	11.714	866.5	7.23	13C9-PFNA	263510.29	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.24	146593.62	9.299	1415.0	7.23	13C9-PFNA	263510.29	5.000	PFNA	0.438	0.551	✓
PFDA_1	512.9 / 469.0	7.65	315767.80	9.289	816.7	7.63	13C6-PFDA	246009.55	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.64	17383.38	9.760	242509.8	7.63	13C6-PFDA	246009.55	5.000	PFDA	0.055	0.053	✓
PFUnA_1	563.1 / 519.0	8.03	191047.79	9.379	760.4	8.02	13C7-PFUnA	81781.29	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	8.03	8333.50	8.496	4225.5	8.02	13C7-PFUnA	81781.29	5.000	PFUnA	0.044	0.048	✓
PFDoA_1	613.1 / 569.0	8.39	114799.26	9.284	696.6	8.38	13C2-PFDoA	143341.07	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	8.39	36062.90	9.740	1566.4	8.38	13C2-PFDoA	143341.07	5.000	PFDoA	0.314	0.300	✓
PFTrDA_1	663.0 / 619.0	8.74	231695.09	7.166	784.9	8.38	13C2-PFDoA	143341.07	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	8.74	14514.99	7.448	3060.0	8.38	13C2-PFDoA	143341.07	5.000	PFTrDA	0.063	0.060	✓
PFTeDA_1	713.0 / 669.0	9.08	147810.61	9.245	732.7	9.07	13C2-PFTeDA	48686.02	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.08	8235.19	9.007	537.2	9.07	13C2-PFTeDA	48686.02	5.000	PFTeDA	0.056	0.057	✓
PFBS_1	298.7 / 79.9	5.42	315571.77	12.978	713.2	5.41	13C3-PFBS	484200.55	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.42	135165.73	12.521	1025.9	5.41	13C3-PFBS	484200.55	9.320	PFBS	0.428	0.444	✓
PFPeS_1	349.1 / 79.9	6.27	284424.96	8.850	611.3	6.84	13C3-PFHxS	584449.21	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.27	130606.46	9.567	743.7	6.84	13C3-PFHxS	584449.21	9.480	PFPeS	0.459	0.424	✓
PFHxS_1	398.7 / 79.9	6.85	538692.37	10.318	939.0	6.84	13C3-PFHxS	584449.21	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.85	171774.72	9.481	1146.5	6.84	13C3-PFHxS	584449.21	9.480	PFHxS	0.319	0.347	✓
PFHpS_1	449.0 / 79.9	7.33	571964.67	10.053	916.7	7.74	13C8-PFOS	397385.62	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.33	157373.67	9.242	1128.1	7.74	13C8-PFOS	397385.62	9.580	PFHpS	0.275	0.299	✓
PFOS_1	498.9 / 79.9	7.75	752869.80	13.947	388.8	7.74	13C8-PFOS	397385.62	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.75	136623.84	12.313	566.8	7.74	13C8-PFOS	397385.62	9.580	PFOS	0.182	0.206	✓
PFNS_1	548.8 / 79.9	8.15	217456.29	8.059	1168.3	7.74	13C8-PFOS	397385.62	9.580	PFNS			
PFNS_2	548.8 / 98.9	8.15	44469.81	8.268	2101.9	7.74	13C8-PFOS	397385.62	9.580	PFNS	0.205	0.200	✓
PFDS_1	599.0 / 79.9	8.52	291420.84	7.467	1274.5	7.74	13C8-PFOS	397385.62	9.580	PFDS			
PFDS_2	599.0 / 98.9	8.52	71826.31	6.598	1969.6	7.74	13C8-PFOS	397385.62	9.580	PFDS	0.247	0.279	✓
PFDoS_1	699.1 / 79.9	9.21	172380.93	5.884	1176.9	8.38	13C2-PFDoA	143341.07	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	9.21	51221.46	5.828	1641.2	8.38	13C2-PFDoA	143341.07	5.000	PFDoS	0.297	0.300	✓
4:2FTS_1	327.1 / 307.0	5.33	251697.01	34.637	2487.9	5.32	13C2-4:2FTS	378163.57	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.33	761923.20	35.473	707.9	5.32	13C2-4:2FTS	378163.57	18.760	4:2FTS	3.027	2.959	✓
6:2FTS_1	427.1 / 407.0	6.62	1036664.21	39.840	2860.0	6.61	13C2-6:2FTS	177111.72	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.62	383726.33	38.783	864.0	6.61	13C2-6:2FTS	177111.72	19.020	6:2FTS	0.370	0.380	✓
8:2FTS_1	527.1 / 507.0	7.48	879560.14	34.372	3686.8	7.47	13C2-8:2FTS	45153.33	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.48	100903.91	37.370	464.1	7.47	13C2-8:2FTS	45153.33	19.200	8:2FTS	0.115	0.105	✓
PFOSA_1	498.1 / 77.9	8.09	332616.77	10.038	1985.0	8.08	13C8-PFOSA	268185.23	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	8.09	2684.74	13.189	6835.0	8.08	13C8-PFOSA	268185.23	10.000	PFOSA	0.008	0.006	✓
NMeFOSA_1	511.9 / 219.0	10.13	16112.01	10.022	903.5	10.13	D3-MeFOSA	64289.67	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.13	11346.51	7.415	604.1	10.13	D3-MeFOSA	64289.67	10.000	NMeFOSA	0.704	0.952	✓
NEtFOSA_1	526.0 / 219.0	10.47	12610.57	8.550	617.5	10.46	D5-EtFOSA	63465.16	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.47	10748.97	7.958	581.5	10.46	D5-EtFOSA	63465.16	10.000	NEtFOSA	0.852	0.917	✓
NMeFOSAA_1	570.1 / 419.0	7.68	61102.93	7.756	5128.5	7.67	d3-MeFOSAA	170445.65	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	7.67	6140.88	8.167	30744.9	7.67	d3-MeFOSAA	170445.65	20.000	NMeFOSAA	0.101	0.095	✓
NEtFOSAA_1	584.2 / 419.1	7.82	57075.57	8.528	3520906.4	7.81	d5-EtFOSAA	134236.93	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	7.83	89608.64	9.272	1567.4	7.81	d5-EtFOSAA	134236.93	20.000	NEtFOSAA	1.570	1.455	✓
NMeFOSE	616.1 / 58.9	10.10	396406.59	90.103	1645.9	10.08	D7-MeFOSE	504210.20	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.39	325320.66	99.991	747.9	10.37	D9-EtFOSE	433158.25	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	5.80	521963.00	33.482	2493.5	5.79	13C3-HFPO-DA	517025.84	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	5.80	92597.78	36.840	1634.8	5.79	13C3-HFPO-DA	517025.84	40.000	HFPO-DA	0.177	0.162	✓
ADONA_1	376.9 / 250.9	6.47	3363216.87	31.851	3675.1	5.79	13C3-HFPO-DA	517025.84	40.000	ADONA			
ADONA_2	376.9 / 84.8	6.47	43889.43	32.846	1007.2	5.79	13C3-HFPO-DA	517025.84	40.000	ADONA	0.013	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.02	2204798.38	30.950	2309.7	5.79	13C3-HFPO-DA	517025.84	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.02	681397.28	29.099	2768.1	5.79	13C3-HFPO-DA	517025.84	40.000	9Cl-PF3ONS	0.309	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	8.77	1493798.45	21.370	3445.3	5.79	13C3-HFPO-DA	517025.84	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	8.77	524323.38	22.070	3632.8	5.79	13C3-HFPO-DA	517025.84	40.000	11Cl-PF3OUdS	0.351	0.340	✓
3:3 FTCA_1	241.0 / 177.0	3.78	70841.35	48.191	1610.0	4.45	13C5-PFPeA	291983.34	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	3.78	3309.98	45.664	251.2	4.45	13C5-PFPeA	291983.34	20.000	3:3 FTCA	0.047	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.86	1213879.46	240.249	1843.3	5.53	13C5-PFHxA	252163.57	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.86	547520.73	246.514	1917.0	5.53	13C5-PFHxA	252163.57	10.000	5:3 FTCA	0.451	0.440	✓
7:3 FTCA_1	441.0 / 316.9	6.92	715891.53	266.757	2302.4	5.53	13C5-PFHxA	252163.57	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	6.92	1368681.50	260.577	2007.3	5.53	13C5-PFHxA	252163.57	10.000	7:3 FTCA	1.912	1.955	✓
NFDHA_1	295.0 / 201.1	5.43	53341.79	23.046	1027.9	5.53	13C5-PFHxA	252163.57	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	5.43	33912.21	19.922	436.3	5.53	13C5-PFHxA	252163.57	10.000	NFDHA	0.636	0.736	✓
PFEESA_1	314.8 / 134.9	5.83	1657077.56	18.091	2169.5	5.53	13C5-PFHxA	252163.57	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	5.83	81083.44	18.588	603.8	5.53	13C5-PFHxA	252163.57	10.000	PFEESA	0.049	0.048	✓
PFMPA	229.0 / 84.9	3.22	279180.69	16.616	2033.1	4.45	13C5-PFPeA	291983.34	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	4.85	331504.11	17.225	1191.3	4.45	13C5-PFPeA	291983.34	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2711-FS(0)	**Injection Vial**	3
Sample ID	WGNA-SW-03-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 4:43:12 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	163733.59	7.158	387.4	1.96	13C4-PFBA	818384.61	40.000				
PFPeA	263.0 / 219.0	4.44	372481.58	14.812	531.1	4.43	13C5-PFPeA	342374.99	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.53	552565.61	18.357	453.5	5.52	13C5-PFHxA	298238.06	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.53	33062.61	17.289	540.1	5.52	13C5-PFHxA	298238.06	10.000	PFHxA	0.060	0.063	✓
PFHpA_1	363.1 / 319.0	6.25	857851.84	13.629	468.7	6.24	13C4-PFHpA	632172.09	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.25	16682.40	12.445	855.5	6.24	13C4-PFHpA	632172.09	10.000	PFHpA	0.019	0.021	✓
PFOA_1	413.0 / 369.0	6.78	1791316.86	27.863	730.8	6.77	13C8-PFOA	724311.97	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.78	153007.31	21.496	894.6	6.77	13C8-PFOA	724311.97	10.000	PFOA	0.085	0.111	✓
PFNA_1	463.0 / 419.0	7.23	203024.23	5.885	514.0	7.22	13C9-PFNA	317864.03	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.23	83667.10	4.400	882.6	7.22	13C9-PFNA	317864.03	5.000	PFNA	0.412	0.551	✓
PFDA_1	512.9 / 469.0	7.64	20749.83	0.530	152.9	7.63	13C6-PFDA	283489.99	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.63	902.22	0.440	1133.0	7.63	13C6-PFDA	283489.99	5.000	PFDA	0.044	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	89803.91	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	89803.91	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	68125.91	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	68125.91	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.41	192508.96	7.042	563.2	5.40	13C3-PFBS	544393.33	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.41	80662.45	6.646	798.2	5.40	13C3-PFBS	544393.33	9.320	PFBS	0.419	0.444	✓
PFPeS_1	349.1 / 79.9	6.26	303521.98	8.295	589.7	6.83	13C3-PFHxS	665396.50	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.26	128913.61	8.294	629.7	6.83	13C3-PFHxS	665396.50	9.480	PFPeS	0.425	0.424	✓
PFHxS_1	398.7 / 79.9	6.84	5224413.45	87.897	2025.3	6.83	13C3-PFHxS	665396.50	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.84	1703224.39	82.569	2439.8	6.83	13C3-PFHxS	665396.50	9.480	PFHxS	0.326	0.347	✓
PFHpS_1	449.0 / 79.9	7.32	270063.99	3.966	494.0	7.74	13C8-PFOS	475608.41	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.32	78356.83	3.845	767.3	7.74	13C8-PFOS	475608.41	9.580	PFHpS	0.290	0.299	✓
PFOS_1	498.9 / 79.9	7.74	19635784.69	303.939	1197.5	7.74	13C8-PFOS	475608.41	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.74	3925292.41	295.585	2199.9	7.74	13C8-PFOS	475608.41	9.580	PFOS	0.200	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	475608.41	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	475608.41	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	475608.41	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	475608.41	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.38	13C2-PFDoA	162032.24	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	460595.13	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	460595.13	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.61	239112.36	7.808	2549.0	6.60	13C2-6:2FTS	208439.14	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.61	87035.67	7.475	445.7	6.60	13C2-6:2FTS	208439.14	19.020	6:2FTS	0.364	0.380	✓
8:2FTS_1	527.1 / 507.0	7.47	70005.95	2.926	3138.2	7.47	13C2-8:2FTS	42214.78	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.48	7785.90	3.084	24.3	7.47	13C2-8:2FTS	42214.78	19.200	8:2FTS	0.111	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	280146.35	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.08	13C8-PFOSA	280146.35	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	62747.13	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	62747.13	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	65552.49	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	65552.49	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	178641.04	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	178641.04	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	134103.99	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	134103.99	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	628679.47	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	586026.03	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.78	13C3-HFPO-DA	501721.44	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	342374.99	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	342374.99	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.52	13C5-PFHxA	298238.06	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	342374.99	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.43	13C5-PFPeA	342374.99	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MC72 TDCA	**Injection Vial**	5
Sample ID	TDCA	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 5:28:49 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	N/A	13C4-PFBA	N/A	1.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	N/A	13C5-PFPeA	N/A	1.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	N/A	13C4-PFHpA	N/A	1.000	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	N/A	13C4-PFHpA	N/A	1.000	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	N/A	13C8-PFOA	N/A	1.000	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	N/A	13C8-PFOA	N/A	1.000	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	N/A	13C9-PFNA	N/A	1.000	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	N/A	13C9-PFNA	N/A	1.000	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	N/A	13C6-PFDA	N/A	1.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	N/A	13C6-PFDA	N/A	1.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	N/A	13C7-PFUnA	N/A	1.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	N/A	13C7-PFUnA	N/A	1.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	N/A	13C2-PFTeDA	N/A	1.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	N/A	13C2-PFTeDA	N/A	1.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	N/A	13C3-PFBS	N/A	1.000	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	N/A	13C3-PFBS	N/A	1.000	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	N/A	13C3-PFHxS	N/A	1.000	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	N/A	13C3-PFHxS	N/A	1.000	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	N/A	13C3-PFHxS	N/A	1.000	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	N/A	13C3-PFHxS	N/A	1.000	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOS	N/A	1.000	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	N/A	13C2-PFDoA	N/A	1.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	N/A	13C2-4:2FTS	N/A	1.000	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	N/A	13C2-4:2FTS	N/A	1.000	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	N/A	13C2-6:2FTS	N/A	1.000	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	N/A	13C2-6:2FTS	N/A	1.000	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	N/A	13C2-8:2FTS	N/A	1.000	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	N/A	13C2-8:2FTS	N/A	1.000	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	N/A	13C8-PFOSA	N/A	1.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	N/A	13C8-PFOSA	N/A	1.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	N/A	D3-MeFOSA	N/A	1.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	N/A	D3-MeFOSA	N/A	1.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	N/A	D5-EtFOSA	N/A	1.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	N/A	D5-EtFOSA	N/A	1.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	N/A	d3-MeFOSAA	N/A	1.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	N/A	d3-MeFOSAA	N/A	1.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	N/A	d5-EtFOSAA	N/A	1.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	N/A	d5-EtFOSAA	N/A	1.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	N/A	D7-MeFOSE	N/A	1.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	N/A	D9-EtFOSE	N/A	1.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	N/A	13C3-HFPO-DA	N/A	1.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	N/A	13C5-PFPeA	N/A	1.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	N/A	13C5-PFPeA	N/A	1.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	N/A	13C5-PFHxA	N/A	1.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	N/A	13C5-PFPeA	N/A	1.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	N/A	13C5-PFPeA	N/A	1.000		N/A	N/A	✓
TDCA	499.0 / 107.0	6.54	1997865.52	<1 points	5805.1	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MB88 IB	**Injection Vial**	7
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 6:14:26 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.96	13C4-PFBA	1026520.73	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	408034.30	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	816430.78	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.24	13C4-PFHpA	816430.78	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	918539.05	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.77	13C8-PFOA	918539.05	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	392219.81	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.22	13C9-PFNA	392219.81	1.250	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.63	13C6-PFDA	354882.24	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.63	13C6-PFDA	354882.24	1.250	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	142116.96	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.01	13C7-PFUnA	142116.96	1.250	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	155365.49	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.06	13C2-PFTeDA	155365.49	1.250	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	749050.33	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.39	13C3-PFBS	749050.33	2.330	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	900686.80	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	900686.80	2.370	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	900686.80	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.83	13C3-PFHxS	900686.80	2.370	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.74	13C8-PFOS	577255.75	2.395	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.37	13C2-PFDoA	307807.56	1.250	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	630296.98	4.690	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.30	13C2-4:2FTS	630296.98	4.690	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	275881.91	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.60	13C2-6:2FTS	275881.91	4.755	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	56933.02	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.47	13C2-8:2FTS	56933.02	4.800	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	420731.88	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.07	13C8-PFOSA	420731.88	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	135021.25	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	135021.25	2.500	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	159930.69	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.46	D5-EtFOSA	159930.69	2.500	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	273282.32	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.66	d3-MeFOSAA	273282.32	5.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	225815.11	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.81	d5-EtFOSAA	225815.11	5.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.07	D7-MeFOSE	1222175.01	25.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	1379472.52	25.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	702234.52	10.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	408034.30	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	408034.30	5.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	436686.64	2.500	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	408034.30	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	408034.30	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2712-FS(0)	**Injection Vial**	8
Sample ID	WGNA-SW-01-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 6:37:14 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.95	272950.92	12.353	476.2	1.94	13C4-PFBA	790579.22	40.000				
PFPeA	263.0 / 219.0	4.43	506102.13	22.257	365.3	4.42	13C5-PFPeA	309590.46	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	852925.27	29.580	560.9	5.50	13C5-PFHxA	285693.30	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	50943.41	27.808	840.9	5.50	13C5-PFHxA	285693.30	10.000	PFHxA	0.060	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	556533.58	9.781	396.4	6.22	13C4-PFHpA	571458.29	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	11891.26	9.813	616.2	6.22	13C4-PFHpA	571458.29	10.000	PFHpA	0.021	0.021	✓
PFOA_1	413.0 / 369.0	6.76	1336606.83	20.925	630.6	6.75	13C8-PFOA	719637.22	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	113569.25	16.059	744.3	6.75	13C8-PFOA	719637.22	10.000	PFOA	0.085	0.111	✓
PFNA_1	463.0 / 419.0	7.20	96683.04	3.186	401.1	7.19	13C9-PFNA	279587.18	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.20	40926.44	2.447	739.3	7.19	13C9-PFNA	279587.18	5.000	PFNA	0.423	0.551	✓
PFDA_1	512.9 / 469.0	7.61	31519.47	0.778	268.4	7.59	13C6-PFDA	293200.60	5.000	PFDA			
PFDA_2	512.9 / 219.0	7.60	1808.19	0.852	14858.2	7.59	13C6-PFDA	293200.60	5.000	PFDA	0.057	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	91111.80	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.98	13C7-PFUnA	91111.80	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	41337.91	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	41337.91	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	454788.78	16.877	1006.2	5.38	13C3-PFBS	536583.65	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	202396.75	16.919	1023.3	5.38	13C3-PFBS	536583.65	9.320	PFBS	0.445	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	608719.24	17.890	731.4	6.81	13C3-PFHxS	618724.97	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	277743.26	19.218	751.4	6.81	13C3-PFHxS	618724.97	9.480	PFPeS	0.456	0.424	✓
PFHxS_1	398.7 / 79.9	6.81	6289296.26	113.794	1539.8	6.81	13C3-PFHxS	618724.97	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	2065846.35	107.703	1664.9	6.81	13C3-PFHxS	618724.97	9.480	PFHxS	0.329	0.347	✓
PFHpS_1	449.0 / 79.9	7.29	311030.29	4.501	436.9	7.71	13C8-PFOS	482661.44	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	104426.23	5.049	600.6	7.71	13C8-PFOS	482661.44	9.580	PFHpS	0.336	0.299	✓
PFOS_1	498.9 / 79.9	7.71	19534935.48	297.959	1293.3	7.71	13C8-PFOS	482661.44	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	3884487.62	288.238	1903.2	7.71	13C8-PFOS	482661.44	9.580	PFOS	0.199	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	482661.44	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	482661.44	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	482661.44	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	482661.44	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	172207.42	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	446147.44	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	446147.44	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.58	644952.34	23.230	2547.0	6.58	13C2-6:2FTS	188977.73	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.58	232703.54	22.043	826.2	6.58	13C2-6:2FTS	188977.73	19.020	6:2FTS	0.361	0.380	✓
8:2FTS_1	527.1 / 507.0	7.44	61778.33	2.345	1724.9	7.44	13C2-8:2FTS	46481.43	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.44	9569.74	3.443	30.0	7.44	13C2-8:2FTS	46481.43	19.200	8:2FTS	0.155	0.105	✓
PFOSA_1	498.1 / 77.9	8.02	138829.48	4.160	890.7	8.04	13C8-PFOSA	270071.65	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	7.91	213.65	1.042	1975.8	8.04	13C8-PFOSA	270071.65	10.000	PFOSA	0.002	0.006	
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	59749.12	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	59749.12	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	62315.63	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	62315.63	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	163373.46	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	163373.46	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	137513.56	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	137513.56	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	562157.39	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	458180.23	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	486049.82	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	309590.46	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	309590.46	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	5.82	7212.07	1.260	101.7	5.50	13C5-PFHxA	285693.30	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	5.82	2385.76	0.948	58.1	5.50	13C5-PFHxA	285693.30	10.000	5:3 FTCA	0.331	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	285693.30	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	309590.46	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	309590.46	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2713-FS(0)	**Injection Vial**	9
Sample ID	WGNA-SW-52-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:00:02 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	51152.77	2.179	231.3	1.95	13C4-PFBA	840002.79	40.000				
PFPeA	263.0 / 219.0	4.43	67080.70	2.576	381.5	4.42	13C5-PFPeA	354580.28	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	114401.72	3.581	295.4	5.50	13C5-PFHxA	316558.31	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	7066.04	3.481	289.2	5.50	13C5-PFHxA	316558.31	10.000	PFHxA	0.062	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	108966.64	1.631	276.4	6.21	13C4-PFHpA	670799.60	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.24	2146.50	1.509	397.7	6.21	13C4-PFHpA	670799.60	10.000	PFHpA	0.020	0.021	✓
PFOA_1	413.0 / 369.0	6.76	435792.95	6.368	502.8	6.75	13C8-PFOA	770993.02	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	43420.42	5.731	618.8	6.75	13C8-PFOA	770993.02	10.000	PFOA	0.100	0.111	✓
PFNA_1	463.0 / 419.0	7.21	27672.16	0.804	189.5	7.20	13C9-PFNA	317067.12	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	11801.37	0.622	238.8	7.20	13C9-PFNA	317067.12	5.000	PFNA	0.427	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	271023.49	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	271023.49	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	85734.57	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	85734.57	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	68310.53	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	68310.53	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	62203.51	2.050	463.2	5.38	13C3-PFBS	604312.34	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	28088.07	2.085	544.8	5.38	13C3-PFBS	604312.34	9.320	PFBS	0.452	0.444	✓
PFPeS_1	349.1 / 79.9	6.23	67553.95	1.844	409.3	6.81	13C3-PFHxS	666201.07	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	33750.19	2.169	492.4	6.81	13C3-PFHxS	666201.07	9.480	PFPeS	0.500	0.424	✓
PFHxS_1	398.7 / 79.9	6.82	776540.26	13.049	1056.9	6.81	13C3-PFHxS	666201.07	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	250589.60	12.133	1028.4	6.81	13C3-PFHxS	666201.07	9.480	PFHxS	0.323	0.347	✓
PFHpS_1	449.0 / 79.9	7.30	31057.79	0.472	166.4	7.71	13C8-PFOS	459721.13	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	10266.82	0.521	253.9	7.71	13C8-PFOS	459721.13	9.580	PFHpS	0.331	0.299	✓
PFOS_1	498.9 / 79.9	7.71	1005422.77	16.101	471.1	7.71	13C8-PFOS	459721.13	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	176817.43	13.775	631.8	7.71	13C8-PFOS	459721.13	9.580	PFOS	0.176	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	459721.13	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	459721.13	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	459721.13	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	459721.13	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	181222.68	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	487714.02	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	487714.02	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.58	13C2-6:2FTS	219193.39	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.58	13C2-6:2FTS	219193.39	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	50615.01	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.44	13C2-8:2FTS	50615.01	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	286901.40	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	286901.40	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	55476.41	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	55476.41	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	59158.75	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	59158.75	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	167169.22	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	167169.22	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	145364.44	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	145364.44	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	609211.66	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	576506.21	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	542973.90	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	354580.28	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	354580.28	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	316558.31	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	354580.28	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	354580.28	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2714-FS(0)	**Injection Vial**	10
Sample ID	WGNA-SW-DUP-03-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:22:48 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.94	98056.34	4.798	294.5	1.93	13C4-PFBA	731215.66	40.000				
PFPeA	263.0 / 219.0	4.43	193829.29	7.868	274.4	4.42	13C5-PFPeA	335406.97	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.52	321607.53	10.578	333.8	5.51	13C5-PFHxA	301227.07	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.52	18050.33	9.345	422.6	5.51	13C5-PFHxA	301227.07	10.000	PFHxA	0.056	0.063	✓
PFHpA_1	363.1 / 319.0	6.24	305187.95	4.949	314.7	6.23	13C4-PFHpA	619384.24	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	5788.95	4.408	966.5	6.23	13C4-PFHpA	619384.24	10.000	PFHpA	0.019	0.021	✓
PFOA_1	413.0 / 369.0	6.76	920873.74	14.252	492.7	6.75	13C8-PFOA	727957.47	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.76	84637.17	11.831	702.5	6.75	13C8-PFOA	727957.47	10.000	PFOA	0.092	0.111	✓
PFNA_1	463.0 / 419.0	7.21	58861.13	1.969	301.2	7.20	13C9-PFNA	275449.05	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.21	23292.74	1.414	515.3	7.20	13C9-PFNA	275449.05	5.000	PFNA	0.396	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	272389.67	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.60	13C6-PFDA	272389.67	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	83094.89	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.99	13C7-PFUnA	83094.89	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	59714.82	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	59714.82	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.40	197487.97	7.635	632.3	5.39	13C3-PFBS	515095.66	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.40	86049.81	7.493	1015.3	5.39	13C3-PFBS	515095.66	9.320	PFBS	0.436	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	193242.83	5.501	472.7	6.82	13C3-PFHxS	638835.24	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.24	74893.63	5.019	459.4	6.82	13C3-PFHxS	638835.24	9.480	PFPeS	0.388	0.424	✓
PFHxS_1	398.7 / 79.9	6.82	2301539.34	40.332	1636.8	6.82	13C3-PFHxS	638835.24	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.82	742885.71	37.511	1533.8	6.82	13C3-PFHxS	638835.24	9.480	PFHxS	0.323	0.347	✓
PFHpS_1	449.0 / 79.9	7.30	91166.02	1.378	132.1	7.71	13C8-PFOS	461978.54	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.30	29281.85	1.479	414.6	7.71	13C8-PFOS	461978.54	9.580	PFHpS	0.321	0.299	✓
PFOS_1	498.9 / 79.9	7.72	5191958.00	82.736	989.4	7.71	13C8-PFOS	461978.54	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.72	987269.50	76.537	1952.4	7.71	13C8-PFOS	461978.54	9.580	PFOS	0.190	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	461978.54	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	461978.54	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	461978.54	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.71	13C8-PFOS	461978.54	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.36	13C2-PFDoA	162641.99	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	442008.92	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.29	13C2-4:2FTS	442008.92	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.59	98835.16	3.446	1303.5	6.58	13C2-6:2FTS	195230.12	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.59	38978.31	3.574	299.3	6.58	13C2-6:2FTS	195230.12	19.020	6:2FTS	0.394	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	45048.29	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.45	13C2-8:2FTS	45048.29	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	269297.93	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.05	13C8-PFOSA	269297.93	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	67513.38	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	67513.38	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	72681.63	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	72681.63	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	173106.96	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.64	d3-MeFOSAA	173106.96	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	151181.28	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.78	d5-EtFOSAA	151181.28	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	624260.30	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	589255.79	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.77	13C3-HFPO-DA	525867.76	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	335406.97	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	335406.97	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.51	13C5-PFHxA	301227.07	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	335406.97	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	335406.97	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2715-FS(0)	**Injection Vial**	11
Sample ID	WGNA-SW-DUP-04-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 7:45:36 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.96	53130.69	2.441	289.8	1.94	13C4-PFBA	778809.91	40.000				
PFPeA	263.0 / 219.0	4.43	73391.07	3.144	265.0	4.42	13C5-PFPeA	317830.14	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.51	108776.14	3.728	286.7	5.50	13C5-PFHxA	289121.57	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.51	6707.98	3.618	208.1	5.50	13C5-PFHxA	289121.57	10.000	PFHxA	0.062	0.063	✓
PFHpA_1	363.1 / 319.0	6.23	113528.04	2.026	244.0	6.22	13C4-PFHpA	562897.75	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.23	2271.98	1.904	566.4	6.22	13C4-PFHpA	562897.75	10.000	PFHpA	0.020	0.021	✓
PFOA_1	413.0 / 369.0	6.75	431291.11	7.052	426.9	6.74	13C8-PFOA	689012.90	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.73	37833.46	5.587	515.9	6.74	13C8-PFOA	689012.90	10.000	PFOA	0.088	0.111	✓
PFNA_1	463.0 / 419.0	7.20	24518.46	0.787	129.8	7.18	13C9-PFNA	286898.95	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.19	12241.83	0.713	365.0	7.18	13C9-PFNA	286898.95	5.000	PFNA	0.499	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	259790.62	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.59	13C6-PFDA	259790.62	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	80292.72	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	80292.72	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	67786.94	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.05	13C2-PFTeDA	67786.94	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.39	63074.49	2.356	458.4	5.38	13C3-PFBS	533130.63	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.39	28455.03	2.394	575.3	5.38	13C3-PFBS	533130.63	9.320	PFBS	0.451	0.444	✓
PFPeS_1	349.1 / 79.9	6.24	66865.72	1.896	397.8	6.80	13C3-PFHxS	641349.23	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.23	29221.46	1.951	326.6	6.80	13C3-PFHxS	641349.23	9.480	PFPeS	0.437	0.424	✓
PFHxS_1	398.7 / 79.9	6.81	815949.42	14.242	1039.2	6.80	13C3-PFHxS	641349.23	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.81	269564.45	13.558	1225.3	6.80	13C3-PFHxS	641349.23	9.480	PFHxS	0.330	0.347	✓
PFHpS_1	449.0 / 79.9	7.29	27363.79	0.465	135.9	7.70	13C8-PFOS	411314.27	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.29	7776.58	0.441	205.1	7.70	13C8-PFOS	411314.27	9.580	PFHpS	0.284	0.299	✓
PFOS_1	498.9 / 79.9	7.70	1000955.37	17.915	517.3	7.70	13C8-PFOS	411314.27	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.71	174024.85	15.153	606.8	7.70	13C8-PFOS	411314.27	9.580	PFOS	0.174	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411314.27	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411314.27	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411314.27	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	411314.27	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.35	13C2-PFDoA	156368.74	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	437977.93	18.760	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.28	13C2-4:2FTS	437977.93	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	195675.94	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.57	13C2-6:2FTS	195675.94	19.020	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	42823.00	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.43	13C2-8:2FTS	42823.00	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	266304.01	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.04	13C8-PFOSA	266304.01	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	53226.65	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.12	D3-MeFOSA	53226.65	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	55667.92	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.45	D5-EtFOSA	55667.92	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	157094.50	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.63	d3-MeFOSAA	157094.50	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	130295.14	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.77	d5-EtFOSAA	130295.14	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.06	D7-MeFOSE	514985.33	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.36	D9-EtFOSE	499425.15	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.76	13C3-HFPO-DA	496420.45	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	317830.14	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	317830.14	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.50	13C5-PFHxA	289121.57	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	317830.14	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.42	13C5-PFPeA	317830.14	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	MB88 IB	**Injection Vial**	14
Sample ID	Instrument Blank	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 8:53:58 PM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	N/A	N/A	N/A	N/A	1.94	13C4-PFBA	1113597.28	10.000				
PFPeA	263.0 / 219.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	442665.01	5.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	PFHxA	N/A	0.063	✓
PFHpA_1	363.1 / 319.0	N/A	N/A	N/A	N/A	6.20	13C4-PFHpA	925537.18	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	N/A	N/A	N/A	N/A	6.20	13C4-PFHpA	925537.18	2.500	PFHpA	N/A	0.021	✓
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	6.72	13C8-PFOA	993455.63	2.500	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	6.72	13C8-PFOA	993455.63	2.500	PFOA	N/A	0.111	✓
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	7.17	13C9-PFNA	467075.01	1.250	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	7.17	13C9-PFNA	467075.01	1.250	PFNA	N/A	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	401802.39	1.250	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.58	13C6-PFDA	401802.39	1.250	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	141801.72	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	7.97	13C7-PFUnA	141801.72	1.250	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	170316.51	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.04	13C2-PFTeDA	170316.51	1.250	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	N/A	N/A	N/A	N/A	5.36	13C3-PFBS	797593.32	2.330	PFBS			
PFBS_2	298.9 / 98.8	N/A	N/A	N/A	N/A	5.36	13C3-PFBS	797593.32	2.330	PFBS	N/A	0.444	✓
PFPeS_1	349.1 / 79.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	930624.87	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	930624.87	2.370	PFPeS	N/A	0.424	✓
PFHxS_1	398.7 / 79.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	930624.87	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	N/A	N/A	N/A	N/A	6.78	13C3-PFHxS	930624.87	2.370	PFHxS	N/A	0.347	✓
PFHpS_1	449.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFHpS	N/A	0.299	✓
PFOS_1	498.9 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFOS			
PFOS_2	498.9 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFOS	N/A	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.70	13C8-PFOS	638655.87	2.395	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.34	13C2-PFDoA	332744.73	1.250	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	701307.94	4.690	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.27	13C2-4:2FTS	701307.94	4.690	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	269103.08	4.755	6:2FTS			
6:2FTS_2	427.1 / 80.9	N/A	N/A	N/A	N/A	6.55	13C2-6:2FTS	269103.08	4.755	6:2FTS	N/A	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	63240.43	4.800	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.42	13C2-8:2FTS	63240.43	4.800	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	414184.13	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.03	13C8-PFOSA	414184.13	2.500	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	147136.94	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.11	D3-MeFOSA	147136.94	2.500	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	172235.17	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.44	D5-EtFOSA	172235.17	2.500	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	282875.27	5.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.62	d3-MeFOSAA	282875.27	5.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	241448.53	5.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.76	d5-EtFOSAA	241448.53	5.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.05	D7-MeFOSE	1340614.65	25.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.35	D9-EtFOSE	1509867.59	25.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.74	13C3-HFPO-DA	760819.86	10.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	442665.01	5.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	442665.01	5.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.48	13C5-PFHxA	497758.40	2.500	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	442665.01	5.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.41	13C5-PFPeA	442665.01	5.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

NASJRB WILLOW GROVE
SDG 24-0213

PFAS Concentration = $[(PA - b)/m] * C_{IS} * DF/S$

Where:

PA	Area of target analyte/ area of internal standard
b	y Intercept from calibration curve
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
DF	Dilution factor
S	Sample Size

Target Analyte	PENTADECAFLUOROOCTANOIC ACID (PFOA)
Sample ID	WGNA-SW-19-20240320
Laboratory Sample ID	C2702-FS
Sample Size (L)	0.499
Dilution Factor	1
PFOA Area	455956.41
IS Area	560680.05
IS Amount (ng/L)	10
Calibration Curve	y = 0.88761 x
Concentration (ng/L)	18.36
Reported Result (ng/L)	18.4

(((455956.41/560680.05))/0.88761)*10.000*1/0.499

NASJRB WILLOW GROVE
SDG 24-0213

Surrogate Concentration = $[(PA)/m] * C_{IS}$

Where:

PA	Area of target analyte/ area of internal standard
C_{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
Surrogate spike amount	10

Surrogate	13C8-PFOA
Sample ID	WGNA-SW-19-20240320
Laboratory Sample ID	C2702-FS
13C8-PFOA Area	560680.05
IS Area	499819.42
IS Amount (ng)	10
Calibration Curve	y = 1.27936 x
Concentration (ng/g)	8.77
Calculation	((560680.05/499819.42)/1.27936)*10.00

Sample Size	0.499	L
Final Concentration	17.57	ng/L
Spike Concentration	10	ng
Sample Spike Concentration	20.04	ng/L
Calculated Surrogate %R	(17.57/20.04)*100	87.68174999
Reported Surrogate %R	88	

NASJRB WILLOW GROVE
SDG 24-0213

LABORATORY CONTROL SAMPLE

	Result (ng/L)	Target (ng/L)	Calculation	Recovery	Reported Recovery	QC Limits
PFOA	23.7	21.1	(23.7/21.1)*100	112.3222749	112	70-150

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

WGNA-SW-64-20240320

	Result (ng/L)	Target (ng/L)	Calculation	Recovery	Reported Recovery	QC Limits	RPD	Reported RPD	QC Limit
MS PFOA (34.4 ng/L in sample)	11.7	19.5	(34.4-11.7)/19.5*100	116.4102564	116	70-150	NA	NA	
MSD PFOA (30.1 ng/L in sample)	11.7	18.2	(30.1-11.7)/18.2*101	101.0989011	101	70-150	13.82488	13.8	30

ICC RECOVERY (%)	Result	Target	Calculation	Recovery	Reported Recovery
PFOA	5.763	5	5.763/5.000*100	115.26	115.25

ION RATIO RECOVERY (%)	Result	Target	Calculation	Recovery	QC Limits
WGNA-SW-19-20240320					
PFOA	0.091	0.111	0.091/0.111*100	81.98198198	50 - 150

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PFAS Sample Quant Report

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Sample Name	C2702-FS(0)	**Injection Vial**	43
Sample ID	WGNA-SW-19-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 11:23:58 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	1.97	84423.95	4.666	273.7	1.96	13C4-PFBA	647369.32	40.000				
PFPeA	263.0 / 219.0	4.46	163718.01	8.063	235.7	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.56	207083.64	7.982	319.3	5.55	13C5-PFHxA	257061.55	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	5.56	13378.33	8.116	281.8	5.55	13C5-PFHxA	257061.55	10.000	PFHxA	0.065	0.063	✓
PFHpA_1	363.1 / 319.0	6.29	183840.68	3.611	275.3	6.28	13C4-PFHpA	511349.35	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.28	3331.19	3.072	238.2	6.28	13C4-PFHpA	511349.35	10.000	PFHpA	0.018	0.021	✓
PFOA_1	413.0 / 369.0	6.82	455956.41	9.162	448.3	6.81	13C8-PFOA	560680.05	10.000	PFOA			
PFOA_2	413.0 / 169.0	6.81	41257.43	7.488	2048.6	6.81	13C8-PFOA	560680.05	10.000	PFOA	0.091	0.111	✓
PFNA_1	463.0 / 419.0	7.26	34123.48	1.235	236.1	7.25	13C9-PFNA	254604.43	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.26	13330.56	0.875	403.4	7.25	13C9-PFNA	254604.43	5.000	PFNA	0.391	0.551	✓
PFDA_1	512.9 / 469.0	N/A	N/A	N/A	N/A	7.65	13C6-PFDA	247764.85	5.000	PFDA			
PFDA_2	512.9 / 219.0	N/A	N/A	N/A	N/A	7.65	13C6-PFDA	247764.85	5.000	PFDA	N/A	0.053	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.04	13C7-PFUnA	73104.53	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.04	13C7-PFUnA	73104.53	5.000	PFUnA	N/A	0.048	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoA	N/A	0.300	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFTrDA	N/A	0.060	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.09	13C2-PFTeDA	42047.48	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.09	13C2-PFTeDA	42047.48	5.000	PFTeDA	N/A	0.057	✓
PFBS_1	298.7 / 79.9	5.44	123050.31	5.220	422.0	5.43	13C3-PFBS	469437.51	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.44	53425.56	5.105	621.5	5.43	13C3-PFBS	469437.51	9.320	PFBS	0.434	0.444	✓
PFPeS_1	349.1 / 79.9	6.30	108324.52	3.357	343.8	6.87	13C3-PFHxS	586711.14	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.30	41730.22	3.045	316.8	6.87	13C3-PFHxS	586711.14	9.480	PFPeS	0.385	0.424	✓
PFHxS_1	398.7 / 79.9	6.87	1330949.56	25.395	1053.8	6.87	13C3-PFHxS	586711.14	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	6.87	442033.54	24.303	1455.5	6.87	13C3-PFHxS	586711.14	9.480	PFHxS	0.332	0.347	✓
PFHpS_1	449.0 / 79.9	7.35	48504.65	0.900	174.4	7.76	13C8-PFOS	376288.05	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.35	14835.41	0.920	209.1	7.76	13C8-PFOS	376288.05	9.580	PFHpS	0.306	0.299	✓
PFOS_1	498.9 / 79.9	7.77	2294855.42	44.898	591.0	7.76	13C8-PFOS	376288.05	9.580	PFOS			
PFOS_2	498.9 / 98.9	7.77	431508.33	41.070	1218.4	7.76	13C8-PFOS	376288.05	9.580	PFOS	0.188	0.206	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFNS	N/A	0.200	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	7.76	13C8-PFOS	376288.05	9.580	PFDS	N/A	0.279	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.41	13C2-PFDoA	134520.94	5.000	PFDoS	N/A	0.300	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	389805.59	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.33	13C2-4:2FTS	389805.59	18.760	4:2FTS	N/A	2.959	✓
6:2FTS_1	427.1 / 407.0	6.65	116410.38	4.556	1595.4	6.64	13C2-6:2FTS	173911.79	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	6.65	46466.52	4.783	280.7	6.64	13C2-6:2FTS	173911.79	19.020	6:2FTS	0.399	0.380	✓
8:2FTS_1	527.1 / 507.0	N/A	N/A	N/A	N/A	7.49	13C2-8:2FTS	42242.61	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.49	13C2-8:2FTS	42242.61	19.200	8:2FTS	N/A	0.105	✓
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.10	13C8-PFOSA	249873.92	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.10	13C8-PFOSA	249873.92	10.000	PFOSA	N/A	0.006	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	58179.33	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.14	D3-MeFOSA	58179.33	10.000	NMeFOSA	N/A	0.952	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	52857.69	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.47	D5-EtFOSA	52857.69	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	7.69	d3-MeFOSAA	148196.23	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	7.69	d3-MeFOSAA	148196.23	20.000	NMeFOSAA	N/A	0.095	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	7.83	d5-EtFOSAA	120098.44	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	7.83	d5-EtFOSAA	120098.44	20.000	NEtFOSAA	N/A	1.455	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.09	D7-MeFOSE	479048.52	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.38	D9-EtFOSE	419476.21	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	HFPO-DA	N/A	0.162	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	ADONA	N/A	0.013	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	9Cl-PF3ONS	N/A	0.329	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	5.82	13C3-HFPO-DA	528504.10	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000	3:3 FTCA	N/A	0.049	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	5:3 FTCA	N/A	0.440	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	7:3 FTCA	N/A	1.955	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	NFDHA	N/A	0.736	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.55	13C5-PFHxA	257061.55	10.000	PFEESA	N/A	0.048	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.45	13C5-PFPeA	276450.47	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Sample Quant Report

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Sample Name	C2702-FS(0)	**Injection Vial**	43
Sample ID	WGNA-SW-19-20240320	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/23/2024 11:23:58 AM	**Data File**	AG_03222024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0213_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	1.96	647369.32	35.299	1853.8	1.97	13C3-PFBA	420490.53	20.000				
13C5-PFPeA	268.3 / 223.0	4.45	276450.47	19.167	1905.8	5.55	13C2-PFHxA	221390.74	10.000		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.55	257061.55	8.138	1875.1	5.55	13C2-PFHxA	221390.74	10.000		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.28	511349.35	8.932	2210.4	5.55	13C2-PFHxA	221390.74	10.000		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	6.81	560680.05	8.768	3832.6	6.81	13C4-PFOA	499819.42	10.000		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.25	254604.43	4.640	2522.4	7.25	13C5-PFNA	297085.48	5.000		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	7.65	247764.85	4.488	4723.0	7.65	13C2-PFDA	216169.97	5.000		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.04	73104.53	3.515	2012.3	7.65	13C2-PFDA	216169.97	5.000		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.41	134520.94	3.128	6588.0	7.65	13C2-PFDA	216169.97	5.000		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.09	42047.48	1.864	18139.7	7.65	13C2-PFDA	216169.97	5.000		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.43	469437.51	8.657	450.9	6.87	18O2-PFHxS	132276.04	9.480		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	6.87	586711.14	9.019	1081.9	6.87	18O2-PFHxS	132276.04	9.480		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	7.76	376288.05	8.373	810.1	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.33	389805.59	20.443	537.2	1.97	13C3-PFBA	420490.53	20.000		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	6.64	173911.79	19.313	637.2	6.87	18O2-PFHxS	132276.04	9.480		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.49	42242.61	18.322	338.7	6.87	18O2-PFHxS	132276.04	9.480		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.10	249873.92	8.300	4188.4	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.14	58179.33	5.783	824.7	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.47	52857.69	4.521	920.4	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	7.69	148196.23	16.873	1686.9	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	7.83	120098.44	17.616	6761.3	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.09	479048.52	55.849	1088.7	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.38	419476.21	42.703	784.3	7.76	13C4-PFOS	397704.14	9.580		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	5.82	528504.10	41.432	3406.7	5.55	13C2-PFHxA	221390.74	10.000		N/A	N/A	✓

TETRA TECH **INTERNAL CORRESPONDENCE**

TO: **T. MOORE** **DATE:** **APRIL 12, 2024**

FROM: **CALVIN J. LODGE** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –POLYFLUOROALKYL SUBSTANCES (PFAS)**
NAVAL AIR STATION JOINT RESERVE BASE (NASJRB) WILLOW GROVE
WILLOW GROVE, PENNSYLVANIA
SAMPLE DELIVERY GROUP (SDG) 24-0220

SAMPLES: 1/Aqueous/PFAS

WGNA-SW-36A-20240319

Overview

The sample set for NAS JRB Willow Grove, SDG 24-0220, consisted of one (1) aqueous sample. The sample was analyzed for PFAS.

The sample was collected by Tetra Tech, Inc. on March 19, 2024 and analyzed by Battelle Norwell Operations. All sample analyses were conducted in accordance with All sample analyses were conducted in accordance EPA Method 1633 analytical and reporting protocols.

The data contained in this SDG was validated via 90% EPA stage 2B with regard to the following parameters: data completeness, sample preservation and holding times, mass calibration, LC/MS/MS system tuning and performance, mass spectral acquisition rate, instrument sensitivity check, ion transition check, initial/continuing calibrations, laboratory method/preparation and field blank results, extracted internal standard recoveries, laboratory control sample results, ion ratio results, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

Minor

- Detected results reported below the Limit of Quantitation (LOQ) but above the Detection Limit (DL) were qualified as estimated, (J).

Notes

N-ethyl perfluorooctanesulfonamido-ethanol (n-EtFOSE) and n-methyl perfluorooctanesulfonamido-ethanol (n-MeFOSE) were detected below the LOQ in instrument blank MD39 IB run on 03/26/2024 @ 01:38. No action was necessary since these compounds were not detected in any sample.

Non-detected results were reported to the Limit of Detection (LOD).

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the Department of Defense (DOD) documents entitled “Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis be QSM Table B24” (October 18, 2022). The text of this report has been formulated to address only those areas affecting data quality.

Tetra Tech, Inc.
Calvin J. Lodge
Chemist/Data Validator

Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Validation Qualifier (VQL) Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample result (detected) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.
UX	The sample result (nondetected) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Tetra Tech Qualifier Code (QLCD) :

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc. > control limit)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery and/or MS/MSD RPD outside control limit
E	=	LCS/LCSD Recovery and/or LCS/LCSD RPD outside control limit
F	=	Lab Duplicate Imprecision (RPD > control limit)
G	=	Field Duplicate Imprecision (RPD > control limit)
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	ICP PDS Recovery Noncompliance; MSA's r < 0.995
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (i.e., base-time drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	RPD between columns/detectors >40% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient r < 0.995
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 standard deviations is greater than sample activity
Z1	=	Tentatively Identified Compound considered presumptively present
Z2	=	Tentatively Identified Compound column bleed
Z3	=	Tentatively Identified Compound Aldol condensate

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-36A-20240319		
SDG: 24-0220	LAB_ID	C2686-FS1		
FRACTION: PFAS	SAMP_DATE	3/19/2024		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
11CL-PF3OUDS		2.21	U	
2-(N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-ETFOSE)		2.94	U	
2-(N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL) (N-MEFOSE)		3.35	U	
3:3 FLUOROTELOMER CARBOXYLIC ACID (3:3FTCA) [NONIONIC NONACID]		3.39	U	
4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)		1.41	U	
4:2 FLUOROTELOMER SULFONATE		2.68	U	
5:3 FLUOROTELOMER CARBOXYLIC ACID (5:3FTCA) [NONIONIC NONACID]		9.05	U	
6:2 FLUOROTELOMER SULFONATE (6:2FTS)		4.32	J	P
7:3 FLUOROTELOMER CARBOXYLIC ACID (7:3FTCA) [NONIONIC NONACID]		10.6	U	
8:2 FLUOROTELOMER SULFONATE (8:2FTS)		1.86	U	
9CL-PF3ONS		1.42	U	
HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)		1.52	U	
N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)		0.202	U	
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		1.16	U	
N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)		0.404	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.33	U	
NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)		1.54	U	
PENTADECAFLUOROOCTANOIC ACID (PFOA)		16.9		
PERFLUORO(2-ETHOXYETHANE) SULFONIC ACID (PFEESA)		0.43	U	
PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)		1.27	U	
PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)		1.22	U	

PROJ_NO: 08005-WE04	NSAMPLE	WGNA-SW-36A-20240319		
SDG: 24-0220	LAB_ID	C2686-FS1		
FRACTION: PFAS	SAMP_DATE	3/19/2024		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	NG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
PERFLUOROBUTANESULFONIC ACID (PFBS)		8.46		
PERFLUOROBUTANOIC ACID (PFBA)		6.55		
PERFLUORODECANESULFONIC ACID (PFDS)		0.329	U	
PERFLUORODECANOIC ACID (PFDA)		0.803	J	P
PERFLUORODODECANESULFONIC ACID (PFDOS)		0.365	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.611	U	
PERFLUOROHEPTANESULFONIC ACID (PFHPS)		1.27	J	P
PERFLUOROHEPTANOIC ACID (PFHPA)		4.92		
PERFLUOROHEXANESULFONIC ACID (PFHXS)		27.4		
PERFLUOROHEXANOIC ACID (PFHXA)		13.7		
PERFLUORONONANESULFONIC ACID (PFNS)		0.505	U	
PERFLUORONONANOIC ACID (PFNA)		2.31		
PERFLUOROOCTANE SULFONAMIDE (FOSA)		0.381	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		74.6		
PERFLUOROPENTANESULFONIC ACID (PFPES)		3.78		
PERFLUOROPENTANOIC ACID (PFPEA)		14		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.87	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.736	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.412	U	

Appendix B

Results as Reported by the Laboratory

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36A-20240319
Battelle ID	C2686-FS1
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA
Matrix	SW
Sample Size	0.493
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	6.55	C2686-FS1(0)	1.000	3/27/2024	0.605	1.21	6.49
PFPeA	2706-90-3	14.0	C2686-FS1(0)	1.000	3/27/2024	0.571	1.14	3.25
PFHxA	307-24-4	13.7	C2686-FS1(0)	1.000	3/27/2024	0.418	0.836	1.62
PFHpA	375-85-9	4.92	C2686-FS1(0)	1.000	3/27/2024	0.175	0.351	1.62
PFOA	335-67-1	16.9	C2686-FS1(0)	1.000	3/27/2024	0.294	0.588	1.62
PFNA	375-95-1	2.31	C2686-FS1(0)	1.000	3/27/2024	0.254	0.507	1.62
PFDA	335-76-2	0.803 J	C2686-FS1(0)	1.000	3/27/2024	0.226	0.452	1.62
PFUnA	2058-94-8	0.412 U	C2686-FS1(0)	1.000	3/27/2024	0.206	0.412	1.62
PFDoA	307-55-1	0.611 U	C2686-FS1(0)	1.000	3/27/2024	0.305	0.611	1.62
PFTrDA	72629-94-8	0.736 U	C2686-FS1(0)	1.000	3/27/2024	0.368	0.736	1.62
PFTeDA	376-06-7	0.870 U	C2686-FS1(0)	1.000	3/27/2024	0.435	0.870	1.62
PFBS	375-73-5	8.46	C2686-FS1(0)	1.000	3/27/2024	0.180	0.359	1.62
PFPeS	2706-91-4	3.78	C2686-FS1(0)	1.000	3/27/2024	0.131	0.262	1.62
PFHxS	355-46-4	27.4	C2686-FS1(0)	1.000	3/27/2024	0.295	0.590	1.62
PFHpS	375-92-8	1.27 J	C2686-FS1(0)	1.000	3/27/2024	0.207	0.414	1.62
PFOS	1763-23-1	74.6	C2686-FS1(0)	1.000	3/27/2024	0.252	0.503	1.62
PFNS	68259-12-1	0.505 U	C2686-FS1(0)	1.000	3/27/2024	0.253	0.505	1.62
PFDS	335-77-3	0.329 U	C2686-FS1(0)	1.000	3/27/2024	0.164	0.329	1.62
PFDoS	79780-39-5	0.365 U	C2686-FS1(0)	1.000	3/27/2024	0.183	0.365	1.62
4:2FTS	757124-72-4	2.68 U	C2686-FS1(0)	1.000	3/27/2024	1.34	2.68	6.49
6:2FTS	27619-97-2	4.32 J	C2686-FS1(0)	1.000	3/27/2024	1.50	3.00	6.49
8:2FTS	39108-34-4	1.86 U	C2686-FS1(0)	1.000	3/27/2024	0.929	1.86	6.49
PFOSA	754-91-6	0.381 U	C2686-FS1(0)	1.000	3/27/2024	0.191	0.381	1.62
NMeFOSA	31506-32-8	0.404 U	C2686-FS1(0)	1.000	3/27/2024	0.202	0.404	1.62
NEtFOSA	4151-50-2	0.202 U	C2686-FS1(0)	1.000	3/27/2024	0.101	0.202	1.62
NMeFOSAA	2355-31-9	1.33 U	C2686-FS1(0)	1.000	3/27/2024	0.664	1.33	1.62
NEtFOSAA	2991-50-6	1.16 U	C2686-FS1(0)	1.000	3/27/2024	0.579	1.16	1.62
NMeFOSE	24448-09-7	3.35 U	C2686-FS1(0)	1.000	3/27/2024	1.67	3.35	16.2
NEtFOSE	1691-99-2	2.94 U	C2686-FS1(0)	1.000	3/27/2024	1.47	2.94	16.2
HFPO-DA	13252-13-6	1.52 U	C2686-FS1(0)	1.000	3/27/2024	0.759	1.52	6.49
Adona	919005-14-4	1.41 U	C2686-FS1(0)	1.000	3/27/2024	0.704	1.41	6.49
PFMPA	377-73-1	1.27 U	C2686-FS1(0)	1.000	3/27/2024	0.637	1.27	3.25
PFMBA	863090-89-5	1.22 U	C2686-FS1(0)	1.000	3/27/2024	0.609	1.22	3.25
NFDHA	151772-58-6	1.54 U	C2686-FS1(0)	1.000	3/27/2024	0.771	1.54	3.25
9Cl-PF3ONS	756426-58-1	1.42 U	C2686-FS1(0)	1.000	3/27/2024	0.709	1.42	6.49
11Cl-PF3OUdS	763051-92-9	2.21 U	C2686-FS1(0)	1.000	3/27/2024	1.11	2.21	6.49
PFEESA	113507-82-7	0.430 U	C2686-FS1(0)	1.000	3/27/2024	0.215	0.430	3.25
3:3 FTCA	356-02-5	3.39 U	C2686-FS1(0)	1.000	3/27/2024	1.69	3.39	8.11
5:3 FTCA	914637-49-3	9.05 U	C2686-FS1(0)	1.000	3/27/2024	4.52	9.05	40.6
7:3 FTCA	812-70-4	10.6 U	C2686-FS1(0)	1.000	3/27/2024	5.29	10.6	40.6

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	WGNA-SW-36A-20240319
Battelle ID	C2686-FS1
Sample Type	SA
Collection Date	03/19/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	105	C2686-FS1(0)	3/27/2024
13C5-PFPeA	129	C2686-FS1(0)	3/27/2024
13C5-PFHxA	123	C2686-FS1(0)	3/27/2024
13C4-PFHpA	125	C2686-FS1(0)	3/27/2024
13C8-PFOA	110	C2686-FS1(0)	3/27/2024
13C9-PFNA	105	C2686-FS1(0)	3/27/2024
13C6-PFDA	119	C2686-FS1(0)	3/27/2024
13C7-PFUnA	107	C2686-FS1(0)	3/27/2024
13C2-PFDoA	107	C2686-FS1(0)	3/27/2024
13C2-PFTeDA	80	C2686-FS1(0)	3/27/2024
13C3-PFBS	108	C2686-FS1(0)	3/27/2024
13C3-PFHxS	105	C2686-FS1(0)	3/27/2024
13C8-PFOS	111	C2686-FS1(0)	3/27/2024
13C2-4:2FTS	122	C2686-FS1(0)	3/27/2024
13C2-6:2FTS	110	C2686-FS1(0)	3/27/2024
13C2-8:2FTS	93	C2686-FS1(0)	3/27/2024
13C8-PFOSA	120	C2686-FS1(0)	3/27/2024
d3-MeFOSA	88	C2686-FS1(0)	3/27/2024
d5-EtFOSA	84	C2686-FS1(0)	3/27/2024
d3-MeFOSAA	114	C2686-FS1(0)	3/27/2024
d5-EtFOSAA	112	C2686-FS1(0)	3/27/2024
d7-MeFOSE	102	C2686-FS1(0)	3/27/2024
d9-EtFOSE	87	C2686-FS1(0)	3/27/2024
13C3-HFPO-DA	118	C2686-FS1(0)	3/27/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	66	C2686-FS1(0)	3/27/2024
13C2-PFHxA	56	C2686-FS1(0)	3/27/2024
13C4-PFOA	65	C2686-FS1(0)	3/27/2024
13C5-PFNA	68	C2686-FS1(0)	3/27/2024
13C2-PFDA	62	C2686-FS1(0)	3/27/2024
18O2-PFHxS	68	C2686-FS1(0)	3/27/2024
13C4-PFOS	61	C2686-FS1(0)	3/27/2024

Appendix C

Support Documentation

Battelle

The Business of Innovation

Chain-of-Custody

Client Contact Information	Project Manager: Heather Thurston	Sampling Site: Surface Water	Site Information: NAS JRB Willow Grove
Tricia Moore 234 Mall Boulevard, Suite 260 King of Prussia, PA 19406 610-382-1170	Sampler Information (print name): Chris Sinisi Phone: 610-382-1524 Email: chris.sinisi@tetratech.com Turnaround Time (TAT) Requested: 21 days	Preservative: None	COC #
Project Name: Surface Water Sampling Project No.: WR-125	Normal ☑ Priority ☐ RUSH ☐ Time Zone: Eastern	Analysis: PFAS by EPA Draft Method 1633 compliant with Table B-24 of the QSM	Page# 1 of 1

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Total # of Cont.		
WGNA-FB-20240319	3/19/2024	1010	G	QC	2	X	C2685 Field Blank
WGNA-SW-36A-20240319	3/19/2024	1020	G	SW	3	X	86
WGNA-SW-36-20240319	3/19/2024	1105	G	SW	9	X	87 MS/MSD
WGNA-SW-34A-20240319	3/19/2024	1132	G	SW	3	X	88
WGNA-SW-42-20240319	3/19/2024	1155	G	SW	3	X	89
WGNA-SW-41-20240319	3/19/2024	1315	G	SW	3	X	90
WGNA-SW-39A-20240319	3/19/2024	1340	G	SW	3	X	91
WGNA-SW-33-20240319	3/19/2024	1355	G	SW	3	X	92
WGNA-SW-30-20240319	3/19/2024	1410	G	SW	3	X	93
WGNA-SW-20-20240319	3/19/2024	1424	G	SW	3	X	94
WGNA-SW-19-20240319	3/19/2024	1445	G	SW	3	X	95
WGNA-SW-DUP-02-20240319	3/19/2024	0000	G	SW	3	X	C2696

Receipt Temperature:(°C)	Samples Intact: Yes - No	Samples on Ice: Yes - No	Receipt Comments:

Relinquished by (Print Sign): Chris Sinisi	Company: Tetra Tech	Date/Time: 3/19/2024 1800	Received by (Print Sign):	Company: BNV	Date Time: 3/20/24 1000
Relinquished by (Print Sign):	Company:	Date Time:	Received by (Print Sign):	Company:	Date Time:
Relinquished by (Print Sign):	Company:	Date Time:	Received by (Print Sign):	Company:	Date Time:

Comments: FedEx Tracking # 7756 0657 4854

ORIGIN ID:KPDA (610) 382-1530
N. SOMA
TETRA TECH
234 MALL BLVD
SUITE 260
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 19MAR24
ACTWGT: 45.00 LB
CAD: 255272457/INET4700
DIMS: 26x14x14 IN

BILL SENDER

TO **HEATHER THURSTON**
BATTELLE
141 LONGWATER DRIVE
SUITE 202
NORWELL MA 02061
(781) 681-5565 REF: 112G08005-WE04 FI SW
INV:
PO: DEPT:

5883J2#653B9AE3

FedEx Express

J241024011001uv

WED - 20 MAR 10:30A
PRIORITY OVERNIGHT

2 of 2
MPS# 0263 **7756 0657 5909**
Mstr# **7756 0657 4854**
0201

02061
BOS
MA-US

EM XPUA

Therm 2
0.90

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID:KPDA (610) 382-1530
N. SOMA
TETRA TECH
234 MALL BLVD
SUITE 260
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 19MAR24
ACTWGT: 45.00 LB
CAD: 255272457/INET4700
DIMS: 26x14x14 IN

BILL SENDER

TO **HEATHER THURSTON**
BATTELLE
141 LONGWATER DRIVE
SUITE 202
NORWELL MA 02061
(781) 681-5565

REF: 112G08005-WE04 FI SW
INV:
PO: DEPT:

583J2/653809AE3

FedEx Express

J241024011001uv

WED - 20 MAR 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 0201 **7756 0657 4854**
MASTER

EM XPUA

02061
MA-US **BOS**

Therm 2
1.40

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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ShpNo SHP-240320-02

Battelle Project No: 125.000001

Sample Receipt Form

Approved: ☐ Authorized ☐

Project Number: 112G08005-WE04/WR125 **Client:** Tetra Tech

Received by: Schumitz, Matt **Date/Time Received:** Wednesday, March 20, 2024 10:00 AM

No. of Shipping Containers: 2

SHIPMENT

Method of Delivery: Commercial Carrier **Tracking Number:** Fed Ex

COC Forms: ☑ **Shipped with samples** ☐ **No Forms**

Cooler(s)/Box(es)

Cntr	Type	Tracking No.	Seal	Seal	Container	Therm.	Temp C	Smps
1 of 2	Cooler	7756 0657 4854	Custody Seals	Intact	Intact	Therm_2	1.4	6
2 of 2	Cooler	7756 0657 5909	Custody Seals	Intact	Intact	Therm_2	0.9	6

Samples

Sample Labels:
☑ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals:
☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☑ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples:
☑ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 1.4 Temperature Blank used ☑ Yes ☐ No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☑ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☑ NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☑ NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☑ NA
Individual sample deviations noted on sample log

Samples Containers:
Samples returned in PC-grade jars: ☐ Yes ☐ No ☑ Unknown /Lot No.: UnKnown

Storage Location: Custody: Freezer - F0115 (NA) **BDO IDs Assigned:** C2685 - C2696

Samples logged in by: Schumitz, Matt **Date/Time:** 03/20/2024 10:00 AM

Approved By: **Approved On:**

Authorized By: **Authorized On:**

BATTELLE
It can be done

ShpNo SHP-240320-02

Battelle Project No: 125.000001

Sample Receipt Form Details

Approved: ☐ Authorized ☐

Project Number: 112G08005-WE04/WR125 **Client:** Tetra Tech

Received by: Schumitz, Matt **Date/Time Received:** Wednesday, March 20, 2024 10:00 AM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
C2685	WGNA-FB-20240319	03/19/24 10:10	03/20/24 11:45	2	QC	1.4	NA	NA	NA	F0115 (NA)	BIN	396	
C2686	WGNA-SW-36A-20240319	03/19/24 10:20	03/20/24 11:45	3	SW	1.4	NA	NA	NA	F0115 (NA)	BIN	396	
C2687	WGNA-SW-36-20240319	03/19/24 11:05	03/20/24 11:46	9	SW	1.4	NA	NA	NA	F0115 (NA)	BIN	396	MS/MSD
C2688	WGNA-SW-34A-20240319	03/19/24 11:32	03/20/24 11:46	3	SW	1.4	NA	NA	NA	F0115 (NA)	BIN	396	
C2689	WGNA-SW-42-20240319	03/19/24 11:55	03/20/24 11:46	3	SW	1.4	NA	NA	NA	F0115 (NA)	BIN	396	
C2690	WGNA-SW-41-20240319	03/19/24 13:15	03/20/24 11:47	3	SW	1.4	NA	NA	NA	F0115 (NA)	BIN	396	
C2691	WGNA-SW-39A-20240319	03/19/24 13:40	03/20/24 11:47	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	
C2692	WGNA-SW-33-20240319	03/19/24 13:55	03/20/24 11:47	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	
C2693	WGNA-SW-30-20240319	03/19/24 14:10	03/20/24 11:47	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	
C2694	WGNA-SW-20-20240319	03/19/24 14:24	03/20/24 11:48	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	
C2695	WGNA-SW-19-20240319	03/19/24 14:45	03/20/24 11:48	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	
C2696	WGNA-SW-DUP-02-20240319	03/19/24 0:00	03/20/24 11:48	3	SW	0.9	NA	NA	NA	F0115 (NA)	BIN	396	

Total Samples: 12

Sample Summary

Client: Tetra Tech
SDG: 24-0220
Project/Site: NAS JRB Willow Grove
CTO: WE04

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Receipt Date
DQ799PB-FS	Procedural Blank	WATER	3/26/2024	3/26/2024
DQ800LCS-FS	Laboratory Control Sample	WATER	3/26/2024	3/26/2024
DQ801LCS-FS	Laboratory Control Sample	WATER	3/26/2024	3/26/2024
C2686-FS1	WGNA-SW-36A-20240319	SW	3/19/2024	3/20/2024

QA/QC Summary
Batch 24-0220

Project:	CTO-WE04: WR125 NAS JRB Willow Grove
Client Project Manager:	Rocco Mercuri
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	SW
Data Set:	DP-24-0248
Analytical SOP:	5-381
Method Reference:	*Draft* EPA 1633

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
3/19/2024	3/20/2024	1.4, 0.9
Corrective Actions	None.	
Sample Storage	Samples stored frozen until extraction.	
Related samples	Sample re-extracted from 24-0207 to verify extracted internal standard recoveries.	

	METHOD SUMMARIES
Sample Preparation	Water samples were fortified with surrogates in the original sample container from the field. The water was extracted using a Weak-anion exchange (WAX) / carbon (GCB) solid phase extraction (SPE) cartridge. Target analytes are eluted from the WAX/GCB SPE using 1% NH_3OH in methanol. Extracts were acidified with acetic acid, fortified with internal standards and transferred to LC-MS/MS for analysis.
Prep comments	pH of all samples prior to SPE extraction was verified between 6.5 ± 0.5.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations to three (3) significant figures.
Analysis Comments	Samples analyzed on Sciex 6500+ (AH) LC-MS/MS. The calibration curve contains branched and linear isomers for PFOA, PFNA, PFHxS, PFOS, PFOSA, MeFOSAA, EtFOSAA, MeFOSA, EtFOSA, MeFOSE, and EtFOSE. Individual samples are reviewed for linear and branched isomers. The Branched Checklist Report included in the Miscellaneous Documentation section of the data package indicates if the analyte reported contains linear, branched, or a mix of isomers. Due to software constraints, PFTrDA is quantified using 13C2-PFTeDA, not an average of 13C2-PFDoA and 13C2-PFTeDA.

QA/QC Summary
Batch 24-0220

	Secondary exceedances for calibrations, ICC, and CCV samples are not documented as the secondary transition is monitored solely for peak identification, not quantification. There is no impact on the reported data.

Holding Times	Extraction Date(s)	Analysis Date(s)
	3/26/2024	3/25 – 27/2024

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
≤ ½ the LOQ Samples >10x PB	No exceedances noted.
	No comments.

Ongoing Precision and Recovery (OPR or LLOPR)	An OPR and LLOPR were prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Limits published in draft EPA 1633 Version 4 for recovery and <30% RPD	Project specific MS/MSD not included in this data set.
	No comments.

Extracted Internal Standard Analytes (EIS)	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
Limits published in draft EPA 1633 Version 4	No exceedances noted.
	No comments.

Non-Extracted Internal Standard (NIS) Analytes	Labelled analog compounds were added prior to analysis.
> 30% recovery based on the average area of the calibration curve.	No exceedances noted.
	No comments.

Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
Relative Standard Deviation (RSD) of RR or RF ≤ 20%	No exceedances noted.
	No comments.

QA/QC Summary
Batch 24-0220

Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.

Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
≤ ½ the LOQ	No exceedances noted.
	No comments.

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project Number: G00078.XX.XX.0125.000001
Preparation Batch: 24-0220
Data Set: DP-24-0248
Test Code: EPA_1633

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	0	None
Laboratory Control Sample	0	None
Laboratory Duplicate Precision	NA	None
Matrix Spike / Matrix Spike Duplicate Recovery	NA	None
Matrix Spike / Matrix Spike Duplicate Precision	NA	None
Extracted Internal Standard Analytes (EIS)	0	None
Non-Extracted Internal Standards (NIS)	0	None

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BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title:	NAS JRB Willow Grove	**Data Set Number:**	DP-24-0248
Project Number:	G00078.XX.XX.0125.000001	**Prep Batch Number:**	24-0220
Entered By:	Kevin Bailey	**Entered On:**	03/28/2024
Test Code (Matrix Type):	EPA_1633(L)		

Samples that were manually integrated are noted on the Manual Integration reports with the comment “Manual” under the Integration Type columns. Changes were made due to incorrect auto integration of a peak by the data system. The analyst’s initials on this statement indicate that all integrations were reviewed and approved by the analyst performing the analysis.
KB 3/28/2024

Task Leader Approval:

SupervisorApproval:

PM Approval:



Digitally signed by Robert Lizotte, Jr.
Date: 2024.03.28 14:20:35 -04'00'

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Glossary of Data Qualifiers

Flag:	Application:
B	Analyte detected in the Procedural Blank above 1/2 the Limit of Quantitation (LOQ)
B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
J	Analyte detected below the Limit of Quantitation (LOQ)
MI	Significant Matrix Interference - value could not be determined.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Detection Limit (DL) value, Limit of Detection (LOD) reported
I	Ion ratio outside of criteria (50% difference from calibration expected ratio)

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BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00000 1

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

SOP Numbers (see workplan for modifications)

Extract/AnalyzeSOP No. 5-381

This Batch Contains The Following Samples:
DQ799PB-FS
DQ800LCS-FS
DQ801LCS-FS
C2686-FS1

Laboratory Preparation Records

COMPLETE AND VALIDATED

Prep Task Leader: Paul Fuhry

Approved By:	Date	Initials
Nathaniel Kinsman	03/27/2024	NAK

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BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Sample ID	Description
DQ799PB-FS	Procedural Blank
DQ800LCS-FS	Laboratory Control Sample
DQ801LCS-FS	Laboratory Control Sample
C2686-FS1	WGNA-SW-36A-20240319

Samples Assigned By: Kevin Bailey

Date : March 25, 2024
Due Date : April 10, 2024

Comments: from 24-0207 for low surrogate recoveries

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BATTELLE - NORWELL OPERATIONS
SAMPLE CUSTODY LOG

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Requested On/By:	03/26/2024 NAK	**Purpose:**	Sample Preparation
Relinquished On/By:	03/26/2024 CB	**Last Activity:**	Transfer

Accepted On/By:	03/26/2024 NAK	**Returned On/To:**	
Stored In Facility:	Sample Preparation	**Returned To Facility:**	
Stored Until			
Stored Comment:	NA	**Returned Comment:**	NA

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	C2686	2	C	Consumed	NA

Total Samples 1 * "C" = Consumed Container

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BATTELLE - NORWELL OPERATIONS
SAMPLE VOLUME FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

Sample ID	Bottles	*	Calc. By Wt.	pH Check	Initial Wt. (g)	Empty Wt. (g)	Volume (mL)	Vol. Recorded
DQ799PB-FS	NA	--	Yes	Valid	528.4	42.59	486.0	NA
DQ800LCS-FS	NA	--	Yes	Valid	534.73	41.29	493.0	NA
DQ801LCS-FS	NA	--	Yes	Valid	529.0	42.38	487.0	NA
C2686-FS1	2	C	Yes	Valid	536.78	44.22	493.0	NA

Balance Information:

Initial Wt. Balance:	Initial Wt Date/Initials:	Empty Wt. Balance:	Empty Wt Date/Initials:
BAL-009	03/26/24 NAK	BAL-009	03/26/24 NAK

Calc. by Wt. - if yes, volume is calculated as the total weight of the bottle - empty weight, assuming a Density of 1, value rounded to nearest whole number. If yes, Vol. Recorded Date/Initials will be "NA"

* - "C" = Sample is Consumed

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BATTELLE - NORWELL OPERATIONS
SURROGATE SPIKE FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
DQ799PB-FS	MD09	SIS	1	50	03/26/24 NAK	ER	NA
DQ800LCS-FS	MD09	SIS	1	50	03/26/24 NAK	ER	NA
DQ800LCS-FS	MD11	LCS/MS	1	100	03/26/24 NAK	ER	NA
DQ801LCS-FS	MC47	LCS/MS	1	80	03/26/24 NAK	ER	NA
DQ801LCS-FS	MD09	SIS	1	50	03/26/24 NAK	ER	NA
C2686-FS1	MD09	SIS	1	50	03/26/24 NAK	ER	NA

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MC47	Pipette	C202360925
MD09	Pipette	C202360925
MD11	Pipette	C202360925

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BATTELLE - NORWELL OPERATIONS
SAMPLE EXTRACTION FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Sample ID	1st Extraction	2nd Extraction	3rd Extraction	Comment
DQ799PB-FS	03/26/24 NAK	NA	NA	NA
DQ800LCS-FS	03/26/24 NAK	NA	NA	NA
DQ801LCS-FS	03/26/24 NAK	NA	NA	NA
C2686-FS1	03/26/24 NAK	NA	NA	NA

Solvents/Reagent Preparations:

Name	ID	Expires	Lot No	Procedure	Comments
glass wool	RP-240326-10	03/26/24	171936		
1% NH3OH in Methanol	RP-240326-11	03/26/24	234000	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
1% NH3OH in Methanol	RP-240326-11	03/26/24	A0443371	3.3 mL NH3OH and 97 mL MeOH for each 100 mL prepared	
0.3M formic acid	RP-240326-12	03/26/24	A0437461		
1:1 0.1M formic acid	RP-240326-13	03/26/24	A0437461		
1:1 0.1M formic acid	RP-240326-13	03/26/24	234000		
Pre-packed SPE Column	RP-240326-9	03/26/24	M05773/1260	Pre-packed SPE Column	

Solvents/Reagents:

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BATTELLE - NORWELL OPERATIONS
INTERNAL STANDARD SPIKING FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
DQ799PB-FS(0)	4950	50	MD10	50	2	5000	1.000	03/26/24 NAK	OF
DQ800LCS-FS(0)	4950	50	MD10	50	2	5000	1.000	03/26/24 NAK	OF
DQ801LCS-FS(0)	4950	50	MD10	50	2	5000	1.000	03/26/24 NAK	OF
C2686-FS1(0)	4950	50	MD10	50	2	5000	1.000	03/26/24 NAK	OF

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
MD10	Pipette	C202360925

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

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BATTELLE - NORWELL OPERATIONS
PREPARATION EXTRACT SPLIT FORM

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
DQ799PB-FS	0	--	3/26/2024 11:29:00 AM	NA		NA	NA	1.000	1.000	03/26/24 NAK
DQ800LCS-FS	0	--	3/26/2024 11:29:00 AM	NA		NA	NA	1.000	1.000	03/26/24 NAK
DQ801LCS-FS	0	--	3/26/2024 11:29:00 AM	NA		NA	NA	1.000	1.000	03/26/24 NAK
C2686-FS1	0	--	3/26/2024 11:29:00 AM	NA		NA	NA	1.000	1.000	03/26/24 NAK

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]
Dilution Factor = [Sample Volume (uL) / Aliqot Volume (uL))] * Prior Dilution Factor
* - "C" = Extract is Consumed

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EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.00001

24-0220
CTO-WE04 Willow Grove WR-125 (Re-extract)
SW

Purpose:	LC-MS/MS TRANSFER	**Last Activity:**	Prep->Inst
Relinquished On/By:	Mar 26 2024 2:55PM ZMD	**Received On/By:**	Mar 26 2024 2:55PM DMS
Relinquished From:	Sample Preparation: NA	**Received Location:**	LC Laboratory #1: NA
Relinquish Comment:	NA	**Received Comment:**	NA

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	DQ799PB-FS(0)	5000	1	Intact	NA
2	DQ800LCS-FS(0)	5000	1	Intact	NA
3	DQ801LCS-FS(0)	5000	1	Intact	NA
4	C2686-FS1(0)	5000	1	Intact	NA

Total Extracts: 4

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BATTELLE - NORWELL OPERATIONS
SAMPLE SPECIFIC COMMENTS

Project Title(s)
NAS JRB Willow Grove

Project No.(s)
G00078.XX.XX.0125.000001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Sample ID:	Comment:	Date/Initials:
DQ799PB-FS	Extraction began at 11:30 am on manifold 11, ended at 2:08 pm	03/26/24 NAK
DQ800LCS-FS	Extraction began at 11:30 am on manifold 11, ended at 2:08pm	03/26/24 NAK
DQ801LCS-FS	Extraction began at 11:30 am on manifold 11, ended at 1:17 pm	03/26/24 NAK
C2686-FS1	Extraction began at 11:30 am on manifold 11, ended at 1:27 pm	03/26/24 NAK

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BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM

Project Title(s)	**Project No.(s)**
NAS JRB Willow Grove	G00078.XX.XX.0125.00001

24-0220

CTO-WE04 Willow Grove WR-125 (Re-extract)

SW

Entered By:	**On:**

Task Leader Approval:	**On:**
SupervisorApproval:	**On:**
PM Approval:	**On:**

BATTELLE
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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MD39 IB				MD39 IB			
Battelle ID		MD39 IB_03/26/2024 01:38				MD39 IB_03/26/2024 03:33			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/26/2024				03/26/2024			
Analytical Instrument		Sciex 6500+ (AH) LC/MS/MS				Sciex 6500+ (AH) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	2.15 J	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	3.50 J	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MD39 IB	MD39 IB
Battelle ID	MD39 IB_03/26/2024 01:38	MD39 IB_03/26/2024 03:33
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/26/2024	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	102	102
13C5-PFPeA	111	111
13C5-PFHxA	110	109
13C4-PFHpA	108	110
13C8-PFOA	99	97
13C9-PFNA	107	98
13C6-PFDA	102	108
13C7-PFUnA	106	112
13C2-PFDoA	102	108
13C2-PFTeDA	98	106
13C3-PFBS	107	109
13C3-PFHxS	98	100
13C8-PFOS	97	102
13C2-4:2FTS	98	98
13C2-6:2FTS	87	92
13C2-8:2FTS	98	104
13C8-PFOSA	96	101
d3-MeFOSA	98	100
d5-EtFOSA	101	102
d3-MeFOSAA	98	105
d5-EtFOSAA	102	103
d7-MeFOSE	98	108
d9-EtFOSE	103	107
13C3-HFPO-DA	105	109
NIS Recoveries (%)		
13C3-PFBA	98	94
13C2-PFHxA	96	91
13C4-PFOA	100	94
13C5-PFNA	96	99
13C2-PFDA	101	89
18O2-PFHxS	100	96
13C4-PFOS	101	92

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID		MD39 IB				MD39 IB			
Battelle ID		MD39 IB_03/27/2024 16:29				MD39 IB_03/27/2024 18:46			
Sample Type		IB				IB			
Collection Date		NA				NA			
Extraction Date		NA				NA			
Analysis Date		03/27/2024				03/27/2024			
Analytical Instrument		Sciex 6500+ (AH) LC/MS/MS				Sciex 6500+ (AH) LC/MS/MS			
% Moisture		NA				NA			
Matrix		Water				Water			
Sample Size		0.500				0.500			
Size Unit-Basis		L				L			
Analyte	CAS No.	Result (ng/L)	DL	LOD	LOQ	Result (ng/L)	DL	LOD	LOQ
PFBA	375-22-4	1.19 U	0.597	1.19	6.40	1.19 U	0.597	1.19	6.40
PFPeA	2706-90-3	1.13 U	0.563	1.13	3.20	1.13 U	0.563	1.13	3.20
PFHxA	307-24-4	0.824 U	0.412	0.824	1.60	0.824 U	0.412	0.824	1.60
PFHpA	375-85-9	0.346 U	0.173	0.346	1.60	0.346 U	0.173	0.346	1.60
PFOA	335-67-1	0.580 U	0.290	0.580	1.60	0.580 U	0.290	0.580	1.60
PFNA	375-95-1	0.500 U	0.250	0.500	1.60	0.500 U	0.250	0.500	1.60
PFDA	335-76-2	0.446 U	0.223	0.446	1.60	0.446 U	0.223	0.446	1.60
PFUnA	2058-94-8	0.406 U	0.203	0.406	1.60	0.406 U	0.203	0.406	1.60
PFDoA	307-55-1	0.602 U	0.301	0.602	1.60	0.602 U	0.301	0.602	1.60
PFTrDA	72629-94-8	0.726 U	0.363	0.726	1.60	0.726 U	0.363	0.726	1.60
PFTeDA	376-06-7	0.858 U	0.429	0.858	1.60	0.858 U	0.429	0.858	1.60
PFBS	375-73-5	0.354 U	0.177	0.354	1.60	0.354 U	0.177	0.354	1.60
PFPeS	2706-91-4	0.258 U	0.129	0.258	1.60	0.258 U	0.129	0.258	1.60
PFHxS	355-46-4	0.582 U	0.291	0.582	1.60	0.582 U	0.291	0.582	1.60
PFHpS	375-92-8	0.408 U	0.204	0.408	1.60	0.408 U	0.204	0.408	1.60
PFOS	1763-23-1	0.496 U	0.248	0.496	1.60	0.496 U	0.248	0.496	1.60
PFNS	68259-12-1	0.498 U	0.249	0.498	1.60	0.498 U	0.249	0.498	1.60
PFDS	335-77-3	0.324 U	0.162	0.324	1.60	0.324 U	0.162	0.324	1.60
PFDoS	79780-39-5	0.360 U	0.180	0.360	1.60	0.360 U	0.180	0.360	1.60
4:2FTS	757124-72-4	2.64 U	1.32	2.64	6.40	2.64 U	1.32	2.64	6.40
6:2FTS	27619-97-2	2.96 U	1.48	2.96	6.40	2.96 U	1.48	2.96	6.40
8:2FTS	39108-34-4	1.83 U	0.916	1.83	6.40	1.83 U	0.916	1.83	6.40
PFOSA	754-91-6	0.376 U	0.188	0.376	1.60	0.376 U	0.188	0.376	1.60
NMeFOSA	31506-32-8	0.398 U	0.199	0.398	1.60	0.398 U	0.199	0.398	1.60
NEtFOSA	4151-50-2	0.200 U	0.0998	0.200	1.60	0.200 U	0.0998	0.200	1.60
NMeFOSAA	2355-31-9	1.31 U	0.655	1.31	1.60	1.31 U	0.655	1.31	1.60
NEtFOSAA	2991-50-6	1.14 U	0.571	1.14	1.60	1.14 U	0.571	1.14	1.60
NMeFOSE	24448-09-7	3.30 U	1.65	3.30	16.0	3.30 U	1.65	3.30	16.0
NEtFOSE	1691-99-2	2.90 U	1.45	2.90	16.0	2.90 U	1.45	2.90	16.0
HFPO-DA	13252-13-6	1.50 U	0.748	1.50	6.40	1.50 U	0.748	1.50	6.40
Adona	919005-14-4	1.39 U	0.694	1.39	6.40	1.39 U	0.694	1.39	6.40
PFMPA	377-73-1	1.26 U	0.628	1.26	3.20	1.26 U	0.628	1.26	3.20
PFMBA	863090-89-5	1.20 U	0.600	1.20	3.20	1.20 U	0.600	1.20	3.20
NFDHA	151772-58-6	1.52 U	0.760	1.52	3.20	1.52 U	0.760	1.52	3.20
9Cl-PF3ONS	756426-58-1	1.40 U	0.699	1.40	6.40	1.40 U	0.699	1.40	6.40
11Cl-PF3OUdS	763051-92-9	2.18 U	1.09	2.18	6.40	2.18 U	1.09	2.18	6.40
PFEESA	113507-82-7	0.424 U	0.212	0.424	3.20	0.424 U	0.212	0.424	3.20
3:3 FTCA	356-02-5	3.34 U	1.67	3.34	8.00	3.34 U	1.67	3.34	8.00
5:3 FTCA	914637-49-3	8.92 U	4.46	8.92	40.0	8.92 U	4.46	8.92	40.0
7:3 FTCA	812-70-4	10.4 U	5.22	10.4	40.0	10.4 U	5.22	10.4	40.0

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	MD39 IB	MD39 IB
Battelle ID	MD39 IB_03/27/2024 16:29	MD39 IB_03/27/2024 18:46
Sample Type	IB	IB
Collection Date	NA	NA
Extraction Date	NA	NA
Analysis Date	03/27/2024	03/27/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA	NA
Matrix	Water	Water
Sample Size	0.500	0.500
Size Unit-Basis	L	L
EIS Recoveries (%)		
13C4-PFBA	101	100
13C5-PFPeA	100	114
13C5-PFHxA	100	107
13C4-PFHpA	100	109
13C8-PFOA	101	98
13C9-PFNA	94	102
13C6-PFDA	105	99
13C7-PFUnA	101	99
13C2-PFDoA	106	99
13C2-PFTeDA	101	97
13C3-PFBS	105	112
13C3-PFHxS	103	110
13C8-PFOS	98	106
13C2-4:2FTS	104	104
13C2-6:2FTS	108	100
13C2-8:2FTS	101	94
13C8-PFOSA	112	112
d3-MeFOSA	100	105
d5-EtFOSA	110	114
d3-MeFOSAA	110	110
d5-EtFOSAA	90	111
d7-MeFOSE	107	111
d9-EtFOSE	110	116
13C3-HFPO-DA	105	109
NIS Recoveries (%)		
13C3-PFBA	93	91
13C2-PFHxA	86	86
13C4-PFOA	87	92
13C5-PFNA	90	96
13C2-PFDA	89	98
18O2-PFHxS	85	87
13C4-PFOS	85	85

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ799PB-FS
Sample Type	PB
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.486
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	DL	LOD	LOQ
PFBA	375-22-4	1.23 U	DQ799PB-FS(0)	1.000	3/27/2024	0.614	1.23	6.58
PFPeA	2706-90-3	1.16 U	DQ799PB-FS(0)	1.000	3/27/2024	0.579	1.16	3.29
PFHxA	307-24-4	0.848 U	DQ799PB-FS(0)	1.000	3/27/2024	0.424	0.848	1.65
PFHpA	375-85-9	0.356 U	DQ799PB-FS(0)	1.000	3/27/2024	0.178	0.356	1.65
PFOA	335-67-1	0.597 U	DQ799PB-FS(0)	1.000	3/27/2024	0.298	0.597	1.65
PFNA	375-95-1	0.514 U	DQ799PB-FS(0)	1.000	3/27/2024	0.257	0.514	1.65
PFDA	335-76-2	0.459 U	DQ799PB-FS(0)	1.000	3/27/2024	0.229	0.459	1.65
PFUnA	2058-94-8	0.418 U	DQ799PB-FS(0)	1.000	3/27/2024	0.209	0.418	1.65
PFDoA	307-55-1	0.619 U	DQ799PB-FS(0)	1.000	3/27/2024	0.310	0.619	1.65
PFTrDA	72629-94-8	0.747 U	DQ799PB-FS(0)	1.000	3/27/2024	0.373	0.747	1.65
PFTeDA	376-06-7	0.883 U	DQ799PB-FS(0)	1.000	3/27/2024	0.441	0.883	1.65
PFBS	375-73-5	0.364 U	DQ799PB-FS(0)	1.000	3/27/2024	0.182	0.364	1.65
PFPeS	2706-91-4	0.265 U	DQ799PB-FS(0)	1.000	3/27/2024	0.133	0.265	1.65
PFHxS	355-46-4	0.599 U	DQ799PB-FS(0)	1.000	3/27/2024	0.299	0.599	1.65
PFHpS	375-92-8	0.420 U	DQ799PB-FS(0)	1.000	3/27/2024	0.210	0.420	1.65
PFOS	1763-23-1	0.510 U	DQ799PB-FS(0)	1.000	3/27/2024	0.255	0.510	1.65
PFNS	68259-12-1	0.512 U	DQ799PB-FS(0)	1.000	3/27/2024	0.256	0.512	1.65
PFDS	335-77-3	0.333 U	DQ799PB-FS(0)	1.000	3/27/2024	0.167	0.333	1.65
PFDoS	79780-39-5	0.370 U	DQ799PB-FS(0)	1.000	3/27/2024	0.185	0.370	1.65
4:2FTS	757124-72-4	2.72 U	DQ799PB-FS(0)	1.000	3/27/2024	1.36	2.72	6.58
6:2FTS	27619-97-2	3.05 U	DQ799PB-FS(0)	1.000	3/27/2024	1.52	3.05	6.58
8:2FTS	39108-34-4	1.88 U	DQ799PB-FS(0)	1.000	3/27/2024	0.942	1.88	6.58
PFOSA	754-91-6	0.387 U	DQ799PB-FS(0)	1.000	3/27/2024	0.193	0.387	1.65
NMeFOSA	31506-32-8	0.409 U	DQ799PB-FS(0)	1.000	3/27/2024	0.205	0.409	1.65
NEtFOSA	4151-50-2	0.205 U	DQ799PB-FS(0)	1.000	3/27/2024	0.103	0.205	1.65
NMeFOSAA	2355-31-9	1.35 U	DQ799PB-FS(0)	1.000	3/27/2024	0.674	1.35	1.65
NEtFOSAA	2991-50-6	1.17 U	DQ799PB-FS(0)	1.000	3/27/2024	0.587	1.17	1.65
NMeFOSE	24448-09-7	3.40 U	DQ799PB-FS(0)	1.000	3/27/2024	1.70	3.40	16.5
NEtFOSE	1691-99-2	2.98 U	DQ799PB-FS(0)	1.000	3/27/2024	1.49	2.98	16.5
HFPO-DA	13252-13-6	1.54 U	DQ799PB-FS(0)	1.000	3/27/2024	0.770	1.54	6.58
Adona	919005-14-4	1.43 U	DQ799PB-FS(0)	1.000	3/27/2024	0.714	1.43	6.58
PFMPA	377-73-1	1.29 U	DQ799PB-FS(0)	1.000	3/27/2024	0.646	1.29	3.29
PFMBA	863090-89-5	1.23 U	DQ799PB-FS(0)	1.000	3/27/2024	0.617	1.23	3.29
NFDHA	151772-58-6	1.56 U	DQ799PB-FS(0)	1.000	3/27/2024	0.782	1.56	3.29
9Cl-PF3ONS	756426-58-1	1.44 U	DQ799PB-FS(0)	1.000	3/27/2024	0.719	1.44	6.58
11Cl-PF3OUdS	763051-92-9	2.24 U	DQ799PB-FS(0)	1.000	3/27/2024	1.12	2.24	6.58
PFEESA	113507-82-7	0.436 U	DQ799PB-FS(0)	1.000	3/27/2024	0.218	0.436	3.29
3:3 FTCA	356-02-5	3.44 U	DQ799PB-FS(0)	1.000	3/27/2024	1.72	3.44	8.23
5:3 FTCA	914637-49-3	9.18 U	DQ799PB-FS(0)	1.000	3/27/2024	4.59	9.18	41.2
7:3 FTCA	812-70-4	10.7 U	DQ799PB-FS(0)	1.000	3/27/2024	5.37	10.7	41.2

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Procedural Blank
Battelle ID	DQ799PB-FS
Sample Type	PB
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	106	DQ799PB-FS(0)	3/27/2024
13C5-PFPeA	109	DQ799PB-FS(0)	3/27/2024
13C5-PFHxA	109	DQ799PB-FS(0)	3/27/2024
13C4-PFHpA	113	DQ799PB-FS(0)	3/27/2024
13C8-PFOA	101	DQ799PB-FS(0)	3/27/2024
13C9-PFNA	104	DQ799PB-FS(0)	3/27/2024
13C6-PFDA	111	DQ799PB-FS(0)	3/27/2024
13C7-PFUnA	106	DQ799PB-FS(0)	3/27/2024
13C2-PFDoA	105	DQ799PB-FS(0)	3/27/2024
13C2-PFTeDA	99	DQ799PB-FS(0)	3/27/2024
13C3-PFBS	102	DQ799PB-FS(0)	3/27/2024
13C3-PFHxS	95	DQ799PB-FS(0)	3/27/2024
13C8-PFOS	108	DQ799PB-FS(0)	3/27/2024
13C2-4:2FTS	95	DQ799PB-FS(0)	3/27/2024
13C2-6:2FTS	82	DQ799PB-FS(0)	3/27/2024
13C2-8:2FTS	104	DQ799PB-FS(0)	3/27/2024
13C8-PFOSA	110	DQ799PB-FS(0)	3/27/2024
d3-MeFOSA	84	DQ799PB-FS(0)	3/27/2024
d5-EtFOSA	82	DQ799PB-FS(0)	3/27/2024
d3-MeFOSAA	111	DQ799PB-FS(0)	3/27/2024
d5-EtFOSAA	100	DQ799PB-FS(0)	3/27/2024
d7-MeFOSE	107	DQ799PB-FS(0)	3/27/2024
d9-EtFOSE	100	DQ799PB-FS(0)	3/27/2024
13C3-HFPO-DA	110	DQ799PB-FS(0)	3/27/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	94	DQ799PB-FS(0)	3/27/2024
13C2-PFHxA	87	DQ799PB-FS(0)	3/27/2024
13C4-PFOA	92	DQ799PB-FS(0)	3/27/2024
13C5-PFNA	94	DQ799PB-FS(0)	3/27/2024
13C2-PFDA	87	DQ799PB-FS(0)	3/27/2024
18O2-PFHxS	96	DQ799PB-FS(0)	3/27/2024
13C4-PFOS	85	DQ799PB-FS(0)	3/27/2024

BATTELLE
It can be done

Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ800LCS-FS
Sample Type	OPR
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.493
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	75.4	DQ800LCS-FS(0)	1.000	3/27/2024	81.1	93		70	140
PFPeA	2706-90-3	38.6	DQ800LCS-FS(0)	1.000	3/27/2024	40.6	95		65	135
PFHxA	307-24-4	20.4	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	100		70	145
PFHpA	375-85-9	19.3	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	95		70	150
PFOA	335-67-1	22.7	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	112		70	150
PFNA	375-95-1	20.3	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	100		70	150
PFDA	335-76-2	18.7	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	92		70	140
PFUnA	2058-94-8	17.7	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	87		70	145
PFDoA	307-55-1	18.9	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	93		70	140
PFTrDA	72629-94-8	19.3	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	95		65	140
PFTeDA	376-06-7	18.3	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	90		60	140
PFBS	375-73-5	17.3	DQ800LCS-FS(0)	1.000	3/27/2024	18.0	96		60	145
PFPeS	2706-91-4	17.2	DQ800LCS-FS(0)	1.000	3/27/2024	19.1	90		65	140
PFHxS	355-46-4	16.6	DQ800LCS-FS(0)	1.000	3/27/2024	18.5	90		65	145
PFHpS	375-92-8	18.9	DQ800LCS-FS(0)	1.000	3/27/2024	19.3	98		70	150
PFOS	1763-23-1	17.8	DQ800LCS-FS(0)	1.000	3/27/2024	18.8	95		55	150
PFNS	68259-12-1	17.9	DQ800LCS-FS(0)	1.000	3/27/2024	19.5	92		65	145
PFDS	335-77-3	18.7	DQ800LCS-FS(0)	1.000	3/27/2024	19.6	95		60	145
PFDoS	79780-39-5	18.1	DQ800LCS-FS(0)	1.000	3/27/2024	19.7	92		50	145
4:2FTS	757124-72-4	76.7	DQ800LCS-FS(0)	1.000	3/27/2024	76.1	101		70	145
6:2FTS	27619-97-2	75.5	DQ800LCS-FS(0)	1.000	3/27/2024	77.1	98		65	155
8:2FTS	39108-34-4	85.7	DQ800LCS-FS(0)	1.000	3/27/2024	77.9	110		60	150
PFOSA	754-91-6	22.2	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	109		70	145
NMeFOSA	31506-32-8	19.7	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	97		60	150
NEtFOSA	4151-50-2	20.1	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	99		65	145
NMeFOSAA	2355-31-9	18.8	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	93		50	140
NEtFOSAA	2991-50-6	17.2	DQ800LCS-FS(0)	1.000	3/27/2024	20.3	85		70	145
NMeFOSE	24448-09-7	196	DQ800LCS-FS(0)	1.000	3/27/2024	203	97		70	145
NEtFOSE	1691-99-2	200	DQ800LCS-FS(0)	1.000	3/27/2024	203	99		70	135
HFPO-DA	13252-13-6	83.2	DQ800LCS-FS(0)	1.000	3/27/2024	81.1	103		70	140
Adona	919005-14-4	79.0	DQ800LCS-FS(0)	1.000	3/27/2024	76.7	103		65	145
PFMPA	377-73-1	37.7	DQ800LCS-FS(0)	1.000	3/27/2024	40.6	93		55	140
PFMBA	863090-89-5	39.2	DQ800LCS-FS(0)	1.000	3/27/2024	40.6	97		60	150
NFDHA	151772-58-6	38.0	DQ800LCS-FS(0)	1.000	3/27/2024	40.6	94		50	150
9Cl-PF3ONS	756426-58-1	73.3	DQ800LCS-FS(0)	1.000	3/27/2024	75.9	97		70	155
11Cl-PF3OUdS	763051-92-9	72.0	DQ800LCS-FS(0)	1.000	3/27/2024	76.7	94		55	160
PFEESA	113507-82-7	36.8	DQ800LCS-FS(0)	1.000	3/27/2024	36.1	102		70	140
3:3 FTCA	356-02-5	80.4	DQ800LCS-FS(0)	1.000	3/27/2024	101	80		65	130
5:3 FTCA	914637-49-3	481	DQ800LCS-FS(0)	1.000	3/27/2024	507	95		70	135
7:3 FTCA	812-70-4	448	DQ800LCS-FS(0)	1.000	3/27/2024	507	88		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ800LCS-FS
Sample Type	OPR
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	104	DQ800LCS-FS(0)	3/27/2024
13C5-PFPeA	103	DQ800LCS-FS(0)	3/27/2024
13C5-PFHxA	103	DQ800LCS-FS(0)	3/27/2024
13C4-PFHpA	105	DQ800LCS-FS(0)	3/27/2024
13C8-PFOA	105	DQ800LCS-FS(0)	3/27/2024
13C9-PFNA	106	DQ800LCS-FS(0)	3/27/2024
13C6-PFDA	106	DQ800LCS-FS(0)	3/27/2024
13C7-PFUnA	97	DQ800LCS-FS(0)	3/27/2024
13C2-PFDoA	103	DQ800LCS-FS(0)	3/27/2024
13C2-PFTeDA	96	DQ800LCS-FS(0)	3/27/2024
13C3-PFBS	98	DQ800LCS-FS(0)	3/27/2024
13C3-PFHxS	98	DQ800LCS-FS(0)	3/27/2024
13C8-PFOS	102	DQ800LCS-FS(0)	3/27/2024
13C2-4:2FTS	96	DQ800LCS-FS(0)	3/27/2024
13C2-6:2FTS	92	DQ800LCS-FS(0)	3/27/2024
13C2-8:2FTS	87	DQ800LCS-FS(0)	3/27/2024
13C8-PFOSA	101	DQ800LCS-FS(0)	3/27/2024
d3-MeFOSA	84	DQ800LCS-FS(0)	3/27/2024
d5-EtFOSA	86	DQ800LCS-FS(0)	3/27/2024
d3-MeFOSAA	107	DQ800LCS-FS(0)	3/27/2024
d5-EtFOSAA	105	DQ800LCS-FS(0)	3/27/2024
d7-MeFOSE	105	DQ800LCS-FS(0)	3/27/2024
d9-EtFOSE	98	DQ800LCS-FS(0)	3/27/2024
13C3-HFPO-DA	102	DQ800LCS-FS(0)	3/27/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	81	DQ800LCS-FS(0)	3/27/2024
13C2-PFHxA	78	DQ800LCS-FS(0)	3/27/2024
13C4-PFOA	78	DQ800LCS-FS(0)	3/27/2024
13C5-PFNA	77	DQ800LCS-FS(0)	3/27/2024
13C2-PFDA	81	DQ800LCS-FS(0)	3/27/2024
18O2-PFHxS	83	DQ800LCS-FS(0)	3/27/2024
13C4-PFOS	75	DQ800LCS-FS(0)	3/27/2024

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ801LCS-FS
Sample Type	LLOPR
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS
% Moisture	NA
Matrix	WATER
Sample Size	0.487
Size Unit-Basis	L

Analyte	CAS No.	Result (ng/L)	Extract ID	DF	Analysis Date	Target	Recovery	Qual	Control Limits Lower	Upper
PFBA	375-22-4	13.0	DQ801LCS-FS(0)	1.000	3/27/2024	13.1	99		70	140
PFPeA	2706-90-3	6.91	DQ801LCS-FS(0)	1.000	3/27/2024	6.57	105		65	135
PFHxA	307-24-4	3.70	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	112		70	145
PFHpA	375-85-9	3.10	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	94		70	150
PFOA	335-67-1	3.88	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	118		70	150
PFNA	375-95-1	4.20	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	128		70	150
PFDA	335-76-2	3.21	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	98		70	140
PFUnA	2058-94-8	3.44	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	105		70	145
PFDoA	307-55-1	3.35	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	102		70	140
PFTrDA	72629-94-8	3.33	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	101		65	140
PFTeDA	376-06-7	3.40	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	103		60	140
PFBS	375-73-5	2.82	DQ801LCS-FS(0)	1.000	3/27/2024	2.91	97		60	145
PFPeS	2706-91-4	2.91	DQ801LCS-FS(0)	1.000	3/27/2024	3.09	94		65	140
PFHxS	355-46-4	3.04	DQ801LCS-FS(0)	1.000	3/27/2024	3.00	101		65	145
PFHpS	375-92-8	3.34	DQ801LCS-FS(0)	1.000	3/27/2024	3.13	107		70	150
PFOS	1763-23-1	3.29	DQ801LCS-FS(0)	1.000	3/27/2024	3.05	108		55	150
PFNS	68259-12-1	2.87	DQ801LCS-FS(0)	1.000	3/27/2024	3.16	91		65	145
PFDS	335-77-3	3.58	DQ801LCS-FS(0)	1.000	3/27/2024	3.17	113		60	145
PFDoS	79780-39-5	2.97	DQ801LCS-FS(0)	1.000	3/27/2024	3.19	93		50	145
4:2FTS	757124-72-4	14.9	DQ801LCS-FS(0)	1.000	3/27/2024	12.3	121		70	145
6:2FTS	27619-97-2	17.5	DQ801LCS-FS(0)	1.000	3/27/2024	12.5	140		65	155
8:2FTS	39108-34-4	14.8	DQ801LCS-FS(0)	1.000	3/27/2024	12.6	117		60	150
PFOSA	754-91-6	3.50	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	106		70	145
NMeFOSA	31506-32-8	4.08	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	124		60	150
NEtFOSA	4151-50-2	3.74	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	114		65	145
NMeFOSAA	2355-31-9	4.01	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	122		50	140
NEtFOSAA	2991-50-6	3.79	DQ801LCS-FS(0)	1.000	3/27/2024	3.29	115		70	145
NMeFOSE	24448-09-7	37.6	DQ801LCS-FS(0)	1.000	3/27/2024	32.9	114		70	145
NEtFOSE	1691-99-2	36.8	DQ801LCS-FS(0)	1.000	3/27/2024	32.9	112		70	135
HFPO-DA	13252-13-6	15.0	DQ801LCS-FS(0)	1.000	3/27/2024	13.1	115		70	140
Adona	919005-14-4	15.1	DQ801LCS-FS(0)	1.000	3/27/2024	12.4	122		65	145
PFMPA	377-73-1	6.01	DQ801LCS-FS(0)	1.000	3/27/2024	6.57	91		55	140
PFMBA	863090-89-5	6.17	DQ801LCS-FS(0)	1.000	3/27/2024	6.57	94		60	150
NFDHA	151772-58-6	6.66	DQ801LCS-FS(0)	1.000	3/27/2024	6.57	101		50	150
9Cl-PF3ONS	756426-58-1	13.9	DQ801LCS-FS(0)	1.000	3/27/2024	12.3	113		70	155
11Cl-PF3OUdS	763051-92-9	13.0	DQ801LCS-FS(0)	1.000	3/27/2024	12.4	105		55	160
PFEESA	113507-82-7	6.19	DQ801LCS-FS(0)	1.000	3/27/2024	5.85	106		70	140
3:3 FTCA	356-02-5	12.3	DQ801LCS-FS(0)	1.000	3/27/2024	16.4	75		65	130
5:3 FTCA	914637-49-3	84.5	DQ801LCS-FS(0)	1.000	3/27/2024	82.1	103		70	135
7:3 FTCA	812-70-4	75.3	DQ801LCS-FS(0)	1.000	3/27/2024	82.1	92		50	145

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Project Client: Tetra Tech
Project Name: NAS JRB Willow Grove
Project No.: G00078.XX.XX.0125.000001

Client ID	Laboratory Control Sample
Battelle ID	DQ801LCS-FS
Sample Type	LLOPR
Collection Date	03/26/2024
Extraction Date	03/26/2024
Analytical Instrument	Sciex 6500+ (AH) LC/MS/MS

EIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C4-PFBA	109	DQ801LCS-FS(0)	3/27/2024
13C5-PFPeA	115	DQ801LCS-FS(0)	3/27/2024
13C5-PFHxA	107	DQ801LCS-FS(0)	3/27/2024
13C4-PFHpA	113	DQ801LCS-FS(0)	3/27/2024
13C8-PFOA	113	DQ801LCS-FS(0)	3/27/2024
13C9-PFNA	107	DQ801LCS-FS(0)	3/27/2024
13C6-PFDA	116	DQ801LCS-FS(0)	3/27/2024
13C7-PFUnA	110	DQ801LCS-FS(0)	3/27/2024
13C2-PFDoA	111	DQ801LCS-FS(0)	3/27/2024
13C2-PFTeDA	104	DQ801LCS-FS(0)	3/27/2024
13C3-PFBS	104	DQ801LCS-FS(0)	3/27/2024
13C3-PFHxS	104	DQ801LCS-FS(0)	3/27/2024
13C8-PFOS	99	DQ801LCS-FS(0)	3/27/2024
13C2-4:2FTS	98	DQ801LCS-FS(0)	3/27/2024
13C2-6:2FTS	77	DQ801LCS-FS(0)	3/27/2024
13C2-8:2FTS	91	DQ801LCS-FS(0)	3/27/2024
13C8-PFOSA	111	DQ801LCS-FS(0)	3/27/2024
d3-MeFOSA	79	DQ801LCS-FS(0)	3/27/2024
d5-EtFOSA	83	DQ801LCS-FS(0)	3/27/2024
d3-MeFOSAA	102	DQ801LCS-FS(0)	3/27/2024
d5-EtFOSAA	97	DQ801LCS-FS(0)	3/27/2024
d7-MeFOSE	105	DQ801LCS-FS(0)	3/27/2024
d9-EtFOSE	97	DQ801LCS-FS(0)	3/27/2024
13C3-HFPO-DA	107	DQ801LCS-FS(0)	3/27/2024

NIS Recoveries (%)	Recovery	Extract ID	Analysis Date
13C3-PFBA	74	DQ801LCS-FS(0)	3/27/2024
13C2-PFHxA	71	DQ801LCS-FS(0)	3/27/2024
13C4-PFOA	71	DQ801LCS-FS(0)	3/27/2024
13C5-PFNA	74	DQ801LCS-FS(0)	3/27/2024
13C2-PFDA	68	DQ801LCS-FS(0)	3/27/2024
18O2-PFHxS	77	DQ801LCS-FS(0)	3/27/2024
13C4-PFOS	72	DQ801LCS-FS(0)	3/27/2024

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Sequence Report

Created with Analyst Reporter
Printed: 28/03/2024 11:27:04 AM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
4	MD32	L1	3/25/2024 10:58:39 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
5	MD33	L2	3/25/2024 11:21:33 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
6	MD34	L3	3/25/2024 11:44:26 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
7	MD35	L4	3/26/2024 12:07:19 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
8	MD36	L5	3/26/2024 12:30:18 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
9	MD37	L6	3/26/2024 12:53:13 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
10	MD38	L7	3/26/2024 1:16:07 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
11	MD39 IB	Instrument Blank	3/26/2024 1:38:59 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
12	MD40 ICC	ICC	3/26/2024 2:01:52 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
13	MD32 ISC	ISC	3/26/2024 2:24:48 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
14	MD35 CV	CV	3/26/2024 2:47:41 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
15	MC72 TDCA	TDCA	3/26/2024 3:10:34 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff
16	MD39 IB	Instrument Blank	3/26/2024 3:33:28 AM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03252024_1633.wiff

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Sequence Report

Created with Analyst Reporter
Printed: 28/03/2024 11:30:52 AM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
2	MD32 ISC	ISC	3/27/2024 3:21:02 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
3	MD36 CV	CV	3/27/2024 3:43:54 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
4	MC72 TDCA	TDCA	3/27/2024 4:06:47 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
5	MD39 IB	Instrument Blank	3/27/2024 4:29:38 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
6	DQ799PB-FS(0)	Procedural Blank	3/27/2024 4:52:29 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
7	DQ800LCS-FS(0)	Laboratory Control Sample	3/27/2024 5:15:21 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
8	DQ801LCS-FS(0)	Laboratory Control Sample	3/27/2024 5:38:16 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
9	C2686-FS1(0)	WGNA-SW-36A-20240319	3/27/2024 6:01:10 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
10	MD35 CV	CV	3/27/2024 6:24:01 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff
11	MD39 IB	Instrument Blank	3/27/2024 6:46:54 PM	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	AH_03272024_1633.wiff

Analyte Name	PFBA	**Data File**	AH_03252024_1633.wiff
MRM Transition	212.8 / 168.9	**Result Table**	24-0220
Internal Standard	13C4-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.98609 x (std. dev. = 0.05365) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.9722	0.800	0.789	98.6
5	MD33	L2	True	1.0106	2.002	2.052	102.5
6	MD34	L3	True	0.9888	4.999	5.013	100.3
7	MD35	L4	True	0.9526	9.998	9.659	96.6
8	MD36	L5	True	0.9208	20.099	18.768	93.4
9	MD37	L6	True	0.9678	50.075	49.145	98.1
10	MD38	L7	True	1.0898	250.727	277.095	110.5

Analyte Name	PFPeA	**Data File**	AH_03252024_1633.wiff
MRM Transition	263.0 / 219.0	**Result Table**	24-0220
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.55592 x (std. dev. = 0.08678) (weighting: None) RSD: 5.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.4692	0.400	0.378	94.4
5	MD33	L2	True	1.6293	1.001	1.048	104.7
6	MD34	L3	True	1.5646	2.499	2.513	100.6
7	MD35	L4	True	1.5205	4.999	4.885	97.7
8	MD36	L5	True	1.5044	10.050	9.717	96.7
9	MD37	L6	True	1.4920	25.038	24.009	95.9
10	MD38	L7	True	1.7115	125.364	137.897	110.0

Analyte Name	PFHxA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	313.0 / 269.0	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.01091 x (std. dev. = 0.05314) (weighting: None) RSD: 5.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.0792	0.200	0.214	106.8
5	MD33	L2	True	1.0463	0.500	0.517	103.5
6	MD34	L3	True	1.0068	1.250	1.245	99.6
7	MD35	L4	True	0.9427	2.500	2.331	93.3
8	MD36	L5	True	0.9578	5.025	4.761	94.7
9	MD37	L6	True	0.9812	12.519	12.151	97.1
10	MD38	L7	True	1.0625	62.682	65.882	105.1

Analyte Name	PFHxA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	313.0 / 118.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.05759 x (std. dev. = 0.00387) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0626	0.200	0.217	108.7
5	MD33	L2	True	0.0628	0.500	0.545	109.1
6	MD34	L3	True	0.0527	1.250	1.145	91.6
7	MD35	L4	True	0.0564	2.500	2.450	98.0
8	MD36	L5	True	0.0549	5.025	4.792	95.4
9	MD37	L6	True	0.0553	12.519	12.024	96.0
10	MD38	L7	True	0.0583	62.682	63.488	101.3

Analyte Name	PFHpA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	363.1 / 319.0	**Result Table**	24-0220
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84955 x (std. dev. = 0.04573) (weighting: None) RSD: 5.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8865	0.200	0.209	104.4
5	MD33	L2	True	0.8899	0.500	0.524	104.8
6	MD34	L3	True	0.8500	1.250	1.251	100.1
7	MD35	L4	True	0.7956	2.500	2.341	93.7
8	MD36	L5	True	0.7893	5.025	4.669	92.9
9	MD37	L6	True	0.8335	12.519	12.283	98.1
10	MD38	L7	True	0.9020	62.682	66.553	106.2

Analyte Name	PFHpA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	363.1 / 169.0	**Result Table**	24-0220
Internal Standard	13C4-PFHpA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.01151 x (std. dev. = 0.00219) (weighting: None) RSD: 19.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0094	0.200	0.164	82.0
5	MD33	L2	True	0.0083	0.500	0.359	71.8
6	MD34	L3	True	0.0147	1.250	1.599	127.9
7	MD35	L4	True	0.0112	2.500	2.427	97.1
8	MD36	L5	True	0.0119	5.025	5.201	103.5
9	MD37	L6	True	0.0117	12.519	12.749	101.8
10	MD38	L7	True	0.0133	62.682	72.637	115.9

Analyte Name	PFOA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	413.0 / 369.0	**Result Table**	24-0220
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.90221 x (std. dev. = 0.05575) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.9626	0.200	0.213	106.7
5	MD33	L2	True	0.9672	0.501	0.537	107.2
6	MD34	L3	True	0.9021	1.251	1.251	100.0
7	MD35	L4	True	0.8346	2.503	2.316	92.5
8	MD36	L5	True	0.8349	5.031	4.655	92.5
9	MD37	L6	True	0.8785	12.534	12.205	97.4
10	MD38	L7	True	0.9355	62.757	65.072	103.7

Analyte Name	PFOA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	413.0 / 169.0	**Result Table**	24-0220
Internal Standard	13C8-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08243 x (std. dev. = 0.00819) (weighting: None) RSD: 9.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0967	0.200	0.235	117.3
5	MD33	L2	True	0.0832	0.501	0.505	100.9
6	MD34	L3	True	0.0822	1.251	1.248	99.8
7	MD35	L4	True	0.0729	2.503	2.215	88.5
8	MD36	L5	True	0.0743	5.031	4.536	90.2
9	MD37	L6	True	0.0794	12.534	12.078	96.4
10	MD38	L7	True	0.0883	62.757	67.195	107.1

Analyte Name	PFNA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	463.0 / 419.0	**Result Table**	24-0220
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.58293 x (std. dev. = 0.05368) (weighting: None) RSD: 9.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.6845	0.200	0.235	117.4
5	MD33	L2	True	0.5876	0.500	0.504	100.8
6	MD34	L3	True	0.5893	1.249	1.263	101.1
7	MD35	L4	True	0.5572	2.498	2.388	95.6
8	MD36	L5	True	0.5129	5.021	4.418	88.0
9	MD37	L6	True	0.5500	12.509	11.803	94.4
10	MD38	L7	True	0.5991	62.632	64.368	102.8

Analyte Name	PFNA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	463.0 / 219.0	**Result Table**	24-0220
Internal Standard	13C9-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28814 x (std. dev. = 0.02266) (weighting: None) RSD: 7.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2867	0.200	0.199	99.5
5	MD33	L2	True	0.3213	0.500	0.558	111.5
6	MD34	L3	True	0.2975	1.249	1.290	103.3
7	MD35	L4	True	0.2775	2.498	2.405	96.3
8	MD36	L5	True	0.2477	5.021	4.316	86.0
9	MD37	L6	True	0.2864	12.509	12.434	99.4
10	MD38	L7	True	0.2999	62.632	65.191	104.1

Analyte Name	PFDA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	512.9 / 469.0	**Result Table**	24-0220
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.07877 x (std. dev. = 0.04608) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.1537	0.200	0.214	106.9
5	MD33	L2	True	1.0978	0.500	0.509	101.8
6	MD34	L3	True	1.0902	1.250	1.263	101.1
7	MD35	L4	True	1.0343	2.500	2.397	95.9
8	MD36	L5	True	1.1010	5.025	5.128	102.1
9	MD37	L6	True	1.0183	12.519	11.817	94.4
10	MD38	L7	True	1.0561	62.682	61.367	97.9

Analyte Name	PFDA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	512.9 / 219.0	**Result Table**	24-0220
Internal Standard	13C6-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.03106 x (std. dev. = 0.00405) (weighting: None) RSD: 13.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0258	0.200	0.166	83.2
5	MD33	L2	True	0.0255	0.500	0.411	82.2
6	MD34	L3	True	0.0340	1.250	1.367	109.4
7	MD35	L4	True	0.0314	2.500	2.523	100.9
8	MD36	L5	True	0.0355	5.025	5.738	114.2
9	MD37	L6	True	0.0307	12.519	12.360	98.7
10	MD38	L7	True	0.0346	62.682	69.806	111.4

Analyte Name	PFUnA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	563.1 / 519.0	**Result Table**	24-0220
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.03240 x (std. dev. = 0.09594) (weighting: None) RSD: 9.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.0694	0.200	0.207	103.6
5	MD33	L2	True	1.0918	0.500	0.529	105.8
6	MD34	L3	True	1.0310	1.250	1.248	99.9
7	MD35	L4	True	0.9737	2.500	2.358	94.3
8	MD36	L5	True	0.9077	5.025	4.418	87.9
9	MD37	L6	True	0.9595	12.519	11.635	92.9
10	MD38	L7	True	1.1937	62.682	72.477	115.6

Analyte Name	PFUnA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	563.1 / 269.1	**Result Table**	24-0220
Internal Standard	13C7-PFUnA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.03820 x (std. dev. = 0.00553) (weighting: None) RSD: 14.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0413	0.200	0.216	108.0
5	MD33	L2	True	0.0451	0.500	0.591	118.2
6	MD34	L3	True	0.0353	1.250	1.156	92.5
7	MD35	L4	True	0.0339	2.500	2.219	88.8
8	MD36	L5	True	0.0321	5.025	4.223	84.0
9	MD37	L6	True	0.0345	12.519	11.315	90.4
10	MD38	L7	True	0.0451	62.682	74.073	118.2

Analyte Name	PFDoA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	613.1 / 569.0	**Result Table**	24-0220
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.49066 x (std. dev. = 0.01943) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.5272	0.200	0.215	107.5
5	MD33	L2	True	0.4683	0.500	0.477	95.5
6	MD34	L3	True	0.4939	1.250	1.258	100.7
7	MD35	L4	True	0.4951	2.500	2.523	100.9
8	MD36	L5	True	0.4927	5.025	5.046	100.4
9	MD37	L6	True	0.4712	12.519	12.024	96.0
10	MD38	L7	True	0.4861	62.682	62.103	99.1

Analyte Name	PFDoA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	613.1 / 319.0	**Result Table**	24-0220
Internal Standard	13C2-PFDoA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.11796 x (std. dev. = 0.01236) (weighting: None) RSD: 10.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0926	0.200	0.157	78.5
5	MD33	L2	True	0.1297	0.500	0.550	110.0
6	MD34	L3	True	0.1284	1.250	1.360	108.8
7	MD35	L4	True	0.1147	2.500	2.431	97.2
8	MD36	L5	True	0.1193	5.025	5.080	101.1
9	MD37	L6	True	0.1211	12.519	12.847	102.6
10	MD38	L7	True	0.1201	62.682	63.814	101.8

Analyte Name	PFTrDA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	663.0 / 619.0	**Result Table**	24-0220
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.11827 x (std. dev. = 0.13488) (weighting: None) RSD: 6.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	2.1880	0.200	0.207	103.3
5	MD33	L2	True	2.3736	0.500	0.560	112.1
6	MD34	L3	True	2.1421	1.250	1.264	101.1
7	MD35	L4	True	2.0758	2.500	2.450	98.0
8	MD36	L5	True	2.0433	5.025	4.847	96.5
9	MD37	L6	True	2.0492	12.519	12.111	96.7
10	MD38	L7	True	1.9560	62.682	57.880	92.3

Analyte Name	PFTrDA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	663.0 / 168.9	**Result Table**	24-0220
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08471 x (std. dev. = 0.00823) (weighting: None) RSD: 9.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1022	0.200	0.241	120.7
5	MD33	L2	True	0.0853	0.500	0.504	100.7
6	MD34	L3	True	0.0841	1.250	1.241	99.3
7	MD35	L4	True	0.0764	2.500	2.255	90.2
8	MD36	L5	True	0.0822	5.025	4.878	97.1
9	MD37	L6	True	0.0809	12.519	11.956	95.5
10	MD38	L7	True	0.0817	62.682	60.486	96.5

Analyte Name	PFTeDA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	713.0 / 669.0	**Result Table**	24-0220
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.77637 x (std. dev. = 0.06417) (weighting: None) RSD: 3.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.8284	0.200	0.206	102.9
5	MD33	L2	True	1.8192	0.500	0.512	102.4
6	MD34	L3	True	1.8090	1.250	1.273	101.8
7	MD35	L4	True	1.8297	2.500	2.575	103.0
8	MD36	L5	True	1.7757	5.025	5.023	100.0
9	MD37	L6	True	1.6901	12.519	11.911	95.1
10	MD38	L7	True	1.6825	62.682	59.370	94.7

Analyte Name	PFTeDA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	713.0 / 168.9	**Result Table**	24-0220
Internal Standard	13C2-PFTeDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.05218 x (std. dev. = 0.00768) (weighting: None) RSD: 14.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0666	0.200	0.255	127.5
5	MD33	L2	True	0.0425	0.500	0.407	81.4
6	MD34	L3	True	0.0457	1.250	1.094	87.5
7	MD35	L4	True	0.0528	2.500	2.531	101.2
8	MD36	L5	True	0.0503	5.025	4.845	96.4
9	MD37	L6	True	0.0528	12.519	12.662	101.1
10	MD38	L7	True	0.0547	62.682	65.711	104.8

Analyte Name	PFBS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	298.7 / 79.9	**Result Table**	24-0220
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84311 x (std. dev. = 0.05427) (weighting: None) RSD: 6.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8417	0.178	0.178	99.8
5	MD33	L2	True	0.8928	0.444	0.470	105.9
6	MD34	L3	True	0.9062	1.110	1.193	107.5
7	MD35	L4	True	0.7650	2.220	2.014	90.7
8	MD36	L5	True	0.8237	4.462	4.359	97.7
9	MD37	L6	True	0.7881	11.117	10.391	93.5
10	MD38	L7	True	0.8844	55.661	58.390	104.9

Analyte Name	PFBS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	298.9 / 98.8	**Result Table**	24-0220
Internal Standard	13C3-PFBS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28709 x (std. dev. = 0.01923) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2845	0.178	0.176	99.1
5	MD33	L2	True	0.3177	0.444	0.491	110.7
6	MD34	L3	True	0.2996	1.110	1.158	104.4
7	MD35	L4	True	0.2684	2.220	2.075	93.5
8	MD36	L5	True	0.2679	4.462	4.163	93.3
9	MD37	L6	True	0.2717	11.117	10.521	94.6
10	MD38	L7	True	0.2999	55.661	58.143	104.5

Analyte Name	PFPeS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	349.1 / 79.9	**Result Table**	24-0220
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.61664 x (std. dev. = 0.04599) (weighting: None) RSD: 7.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.6008	0.188	0.183	97.4
5	MD33	L2	True	0.6967	0.470	0.531	113.0
6	MD34	L3	True	0.6674	1.175	1.272	108.2
7	MD35	L4	True	0.5974	2.350	2.277	96.9
8	MD36	L5	True	0.5824	4.723	4.461	94.5
9	MD37	L6	True	0.5823	11.768	11.113	94.4
10	MD38	L7	True	0.5893	58.921	56.312	95.6

Analyte Name	PFPeS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	349.1 / 98.9	**Result Table**	24-0220
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.28730 x (std. dev. = 0.02616) (weighting: None) RSD: 9.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.3134	0.188	0.205	109.1
5	MD33	L2	True	0.3269	0.470	0.535	113.8
6	MD34	L3	True	0.3013	1.175	1.232	104.9
7	MD35	L4	True	0.2726	2.350	2.230	94.9
8	MD36	L5	True	0.2627	4.723	4.319	91.4
9	MD37	L6	True	0.2697	11.768	11.048	93.9
10	MD38	L7	True	0.2643	58.921	54.214	92.0

Analyte Name	PFHxS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	398.7 / 79.9	**Result Table**	24-0220
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.13579 x (std. dev. = 0.09441) (weighting: None) RSD: 8.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.2662	0.182	0.203	111.5
5	MD33	L2	True	1.1269	0.457	0.453	99.2
6	MD34	L3	True	1.1686	1.140	1.173	102.9
7	MD35	L4	True	1.0370	2.281	2.083	91.3
8	MD36	L5	True	1.0168	4.585	4.105	89.5
9	MD37	L6	True	1.0990	11.422	11.052	96.8
10	MD38	L7	True	1.2360	57.191	62.237	108.8

Analyte Name	PFHxS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	398.7 / 98.9	**Result Table**	24-0220
Internal Standard	13C3-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.40659 x (std. dev. = 0.04751) (weighting: None) RSD: 11.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.4840	0.182	0.217	119.0
5	MD33	L2	True	0.4533	0.457	0.510	111.5
6	MD34	L3	True	0.4089	1.140	1.147	100.6
7	MD35	L4	True	0.3608	2.281	2.024	88.8
8	MD36	L5	True	0.3547	4.585	4.000	87.3
9	MD37	L6	True	0.3830	11.422	10.761	94.2
10	MD38	L7	True	0.4013	57.191	56.442	98.7

Analyte Name	PFHpS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	449.0 / 79.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.48730 x (std. dev. = 0.09153) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.5108	0.190	0.193	101.6
5	MD33	L2	True	1.4868	0.476	0.476	100.0
6	MD34	L3	True	1.4615	1.190	1.169	98.3
7	MD35	L4	True	1.4990	2.380	2.399	100.8
8	MD36	L5	True	1.3480	4.784	4.336	90.6
9	MD37	L6	True	1.4500	11.918	11.619	97.5
10	MD38	L7	True	1.6549	59.673	66.399	111.3

Analyte Name	PFHpS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	449.0 / 98.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.46216 x (std. dev. = 0.03808) (weighting: None) RSD: 8.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.4621	0.190	0.190	100.0
5	MD33	L2	True	0.4906	0.476	0.505	106.2
6	MD34	L3	True	0.4147	1.190	1.068	89.7
7	MD35	L4	True	0.4591	2.380	2.364	99.3
8	MD36	L5	True	0.4127	4.784	4.272	89.3
9	MD37	L6	True	0.4805	11.918	12.390	104.0
10	MD38	L7	True	0.5155	59.673	66.561	111.5

Analyte Name	PFOS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	498.9 / 79.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.60413 x (std. dev. = 0.12699) (weighting: None) RSD: 7.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.6789	0.186	0.195	104.7
5	MD33	L2	True	1.7124	0.464	0.495	106.8
6	MD34	L3	True	1.5643	1.160	1.131	97.5
7	MD35	L4	True	1.5236	2.320	2.203	95.0
8	MD36	L5	True	1.3920	4.663	4.046	86.8
9	MD37	L6	True	1.5918	11.617	11.528	99.2
10	MD38	L7	True	1.7660	58.169	64.039	110.1

Analyte Name	PFOS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	498.9 / 98.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.34848 x (std. dev. = 0.02089) (weighting: None) RSD: 6.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.3518	0.186	0.188	100.9
5	MD33	L2	True	0.3432	0.464	0.457	98.5
6	MD34	L3	True	0.3685	1.160	1.227	105.8
7	MD35	L4	True	0.3341	2.320	2.225	95.9
8	MD36	L5	True	0.3124	4.663	4.181	89.7
9	MD37	L6	True	0.3558	11.617	11.862	102.1
10	MD38	L7	True	0.3734	58.169	62.335	107.2

Analyte Name	PFNS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	548.8 / 79.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.12369 x (std. dev. = 0.06469) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.2035	0.192	0.206	107.1
5	MD33	L2	True	1.1549	0.480	0.493	102.8
6	MD34	L3	True	1.1098	1.200	1.185	98.8
7	MD35	L4	True	1.1341	2.400	2.422	100.9
8	MD36	L5	True	1.0166	4.824	4.364	90.5
9	MD37	L6	True	1.0687	12.018	11.430	95.1
10	MD38	L7	True	1.1783	60.175	63.098	104.9

Analyte Name	PFNS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	548.8 / 98.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20755 x (std. dev. = 0.01525) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2215	0.192	0.205	106.7
5	MD33	L2	True	0.2052	0.480	0.475	98.9
6	MD34	L3	True	0.2112	1.200	1.221	101.7
7	MD35	L4	True	0.1953	2.400	2.259	94.1
8	MD36	L5	True	0.1884	4.824	4.378	90.8
9	MD37	L6	True	0.1994	12.018	11.543	96.1
10	MD38	L7	True	0.2319	60.175	67.248	111.8

Analyte Name	PFDS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	599.0 / 79.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.34617 x (std. dev. = 0.06922) (weighting: None) RSD: 5.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.4077	0.193	0.202	104.6
5	MD33	L2	True	1.3542	0.482	0.485	100.6
6	MD34	L3	True	1.3745	1.205	1.230	102.1
7	MD35	L4	True	1.3160	2.410	2.356	97.8
8	MD36	L5	True	1.2045	4.844	4.334	89.5
9	MD37	L6	True	1.3695	12.068	12.277	101.7
10	MD38	L7	True	1.3968	60.425	62.697	103.8

Analyte Name	PFDS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	599.0 / 98.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.38829 x (std. dev. = 0.01750) (weighting: None) RSD: 4.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.3760	0.193	0.187	96.8
5	MD33	L2	True	0.4185	0.482	0.520	107.8
6	MD34	L3	True	0.3965	1.205	1.230	102.1
7	MD35	L4	True	0.3860	2.410	2.396	99.4
8	MD36	L5	True	0.3621	4.844	4.517	93.3
9	MD37	L6	True	0.3873	12.068	12.039	99.8
10	MD38	L7	True	0.3917	60.425	60.957	100.9

Analyte Name	PFDoS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	699.1 / 79.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.91084 x (std. dev. = 0.08775) (weighting: None) RSD: 9.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7871	0.194	0.168	86.4
5	MD33	L2	True	0.9536	0.484	0.507	104.7
6	MD34	L3	True	0.8856	1.210	1.177	97.2
7	MD35	L4	True	0.9282	2.420	2.466	101.9
8	MD36	L5	True	0.8264	4.864	4.413	90.7
9	MD37	L6	True	0.9428	12.118	12.543	103.5
10	MD38	L7	True	1.0522	60.676	70.090	115.5

Analyte Name	PFDoS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	699.1 / 98.9	**Result Table**	24-0220
Internal Standard	13C8-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29528 x (std. dev. = 0.02580) (weighting: None) RSD: 8.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2508	0.194	0.165	84.9
5	MD33	L2	True	0.3213	0.484	0.527	108.8
6	MD34	L3	True	0.2891	1.210	1.185	97.9
7	MD35	L4	True	0.3083	2.420	2.526	104.4
8	MD36	L5	True	0.2738	4.864	4.510	92.7
9	MD37	L6	True	0.3041	12.118	12.478	103.0
10	MD38	L7	True	0.3196	60.676	65.673	108.2

Analyte Name	4:2FTS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	327.1 / 307.0	**Result Table**	24-0220
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.39122 x (std. dev. = 0.03381) (weighting: None) RSD: 8.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.3584	0.749	0.686	91.6
5	MD33	L2	True	0.3752	1.876	1.799	95.9
6	MD34	L3	True	0.4584	4.684	5.488	117.2
7	MD35	L4	True	0.3827	9.368	9.163	97.8
8	MD36	L5	True	0.3683	18.833	17.730	94.1
9	MD37	L6	True	0.4107	46.920	49.253	105.0
10	MD38	L7	True	0.3850	234.931	231.187	98.4

Analyte Name	4:2FTS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	327.1 / 80.9	**Result Table**	24-0220
Internal Standard	13C2-4:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.98977 x (std. dev. = 0.05754) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.0269	0.749	0.777	103.8
5	MD33	L2	True	0.9869	1.876	1.871	99.7
6	MD34	L3	True	1.0082	4.684	4.771	101.9
7	MD35	L4	True	0.9966	9.368	9.432	100.7
8	MD36	L5	True	0.8720	18.833	16.592	88.1
9	MD37	L6	True	1.0545	46.920	49.988	106.5
10	MD38	L7	True	0.9833	234.931	233.402	99.4

Analyte Name	6:2FTS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	427.1 / 407.0	**Result Table**	24-0220
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.07971 x (std. dev. = 0.26208) (weighting: None) RSD: 8.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	3.1813	0.761	0.786	103.3
5	MD33	L2	True	3.4748	1.904	2.148	112.8
6	MD34	L3	True	3.2835	4.754	5.069	106.6
7	MD35	L4	True	3.0384	9.508	9.380	98.7
8	MD36	L5	True	3.0425	19.115	18.884	98.8
9	MD37	L6	True	2.7066	47.621	41.851	87.9
10	MD38	L7	True	2.8310	238.441	219.185	91.9

Analyte Name	6:2FTS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	427.1 / 80.9	**Result Table**	24-0220
Internal Standard	13C2-6:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.04219 x (std. dev. = 0.08211) (weighting: None) RSD: 7.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.1561	0.761	0.844	110.9
5	MD33	L2	True	1.0825	1.904	1.978	103.9
6	MD34	L3	True	1.0930	4.754	4.986	104.9
7	MD35	L4	True	1.0791	9.508	9.845	103.5
8	MD36	L5	True	0.9835	19.115	18.039	94.4
9	MD37	L6	True	0.9792	47.621	44.741	94.0
10	MD38	L7	True	0.9218	238.441	210.904	88.5

Analyte Name	8:2FTS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	527.1 / 507.0	**Result Table**	24-0220
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 12.27285 x (std. dev. = 1.06461) (weighting: None) RSD: 8.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	10.3507	0.768	0.648	84.3
5	MD33	L2	True	12.8513	1.922	2.013	104.7
6	MD34	L3	True	13.1163	4.799	5.129	106.9
7	MD35	L4	True	13.1779	9.598	10.306	107.4
8	MD36	L5	True	12.5336	19.296	19.706	102.1
9	MD37	L6	True	12.6297	48.072	49.470	102.9
10	MD38	L7	True	11.2505	240.698	220.647	91.7

Analyte Name	8:2FTS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	527.1 / 80.8	**Result Table**	24-0220
Internal Standard	13C2-8:2FTS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.04357 x (std. dev. = 0.08662) (weighting: None) RSD: 8.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.1023	0.768	0.811	105.6
5	MD33	L2	True	1.2080	1.922	2.225	115.8
6	MD34	L3	True	1.0162	4.799	4.673	97.4
7	MD35	L4	True	1.0231	9.598	9.410	98.0
8	MD36	L5	True	1.0200	19.296	18.861	97.8
9	MD37	L6	True	0.9929	48.072	45.739	95.2
10	MD38	L7	True	0.9424	240.698	217.360	90.3

Analyte Name	PFOSA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	498.1 / 77.9	**Result Table**	24-0220
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.20518 x (std. dev. = 0.05983) (weighting: None) RSD: 5.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.1973	0.201	0.200	99.4
5	MD33	L2	True	1.2499	0.502	0.521	103.7
6	MD34	L3	True	1.1864	1.255	1.235	98.4
7	MD35	L4	True	1.1455	2.510	2.386	95.1
8	MD36	L5	True	1.1464	5.045	4.799	95.1
9	MD37	L6	True	1.1962	12.569	12.475	99.3
10	MD38	L7	True	1.3146	62.933	68.646	109.1

Analyte Name	PFOSA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	498.1 / 478.0	**Result Table**	24-0220
Internal Standard	13C8-PFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00821 x (std. dev. = 0.00182) (weighting: None) RSD: 22.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0075	0.201	0.183	91.3
5	MD33	L2	True	0.0088	0.502	0.539	107.4
6	MD34	L3	True	0.0049	1.255	0.744	59.3
7	MD35	L4	True	0.0073	2.510	2.226	88.7
8	MD36	L5	True	0.0095	5.045	5.835	115.7
9	MD37	L6	True	0.0092	12.569	14.126	112.4
10	MD38	L7	True	0.0103	62.933	78.885	125.4

Analyte Name	NMeFOSA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	511.9 / 219.0	**Result Table**	24-0220
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19556 x (std. dev. = 0.00914) (weighting: None) RSD: 4.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2040	0.200	0.209	104.3
5	MD33	L2	True	0.2085	0.501	0.534	106.6
6	MD34	L3	True	0.1983	1.250	1.268	101.4
7	MD35	L4	True	0.1863	2.501	2.382	95.2
8	MD36	L5	True	0.1841	5.027	4.732	94.1
9	MD37	L6	True	0.1898	12.524	12.158	97.1
10	MD38	L7	True	0.1980	62.707	63.487	101.2

Analyte Name	NMeFOSA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	511.9 / 169.0	**Result Table**	24-0220
Internal Standard	D3-MeFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.18269 x (std. dev. = 0.01338) (weighting: None) RSD: 7.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1624	0.200	0.178	88.9
5	MD33	L2	True	0.1933	0.501	0.530	105.8
6	MD34	L3	True	0.1963	1.250	1.343	107.4
7	MD35	L4	True	0.1749	2.501	2.394	95.7
8	MD36	L5	True	0.1735	5.027	4.774	95.0
9	MD37	L6	True	0.1810	12.524	12.408	99.1
10	MD38	L7	True	0.1974	62.707	67.772	108.1

Analyte Name	NEtFOSA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	526.0 / 219.0	**Result Table**	24-0220
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19793 x (std. dev. = 0.01588) (weighting: None) RSD: 8.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2131	0.200	0.215	107.7
5	MD33	L2	True	0.2039	0.501	0.516	103.0
6	MD34	L3	True	0.1971	1.252	1.246	99.6
7	MD35	L4	True	0.1853	2.505	2.345	93.6
8	MD36	L5	True	0.1733	5.035	4.408	87.5
9	MD37	L6	True	0.1935	12.544	12.265	97.8
10	MD38	L7	True	0.2194	62.807	69.618	110.9

Analyte Name	NEtFOSA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	526.0 / 169.0	**Result Table**	24-0220
Internal Standard	D5-EtFOSA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.18141 x (std. dev. = 0.01594) (weighting: None) RSD: 8.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1746	0.200	0.193	96.3
5	MD33	L2	True	0.1924	0.501	0.531	106.1
6	MD34	L3	True	0.1906	1.252	1.315	105.1
7	MD35	L4	True	0.1657	2.505	2.288	91.3
8	MD36	L5	True	0.1644	5.035	4.563	90.6
9	MD37	L6	True	0.1745	12.544	12.066	96.2
10	MD38	L7	True	0.2077	62.807	71.901	114.5

Analyte Name	NMeFOSAA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	570.1 / 419.0	**Result Table**	24-0220
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.94418 x (std. dev. = 0.05780) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8489	0.200	0.180	89.9
5	MD33	L2	True	0.9769	0.500	0.517	103.5
6	MD34	L3	True	0.9376	1.250	1.241	99.3
7	MD35	L4	True	0.9266	2.500	2.453	98.1
8	MD36	L5	True	1.0091	5.025	5.370	106.9
9	MD37	L6	True	0.9046	12.519	11.994	95.8
10	MD38	L7	True	1.0056	62.682	66.757	106.5

Analyte Name	NMeFOSAA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	570.1 / 483.0	**Result Table**	24-0220
Internal Standard	d3-MeFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.07597 x (std. dev. = 0.02354) (weighting: None) RSD: 31.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0606	0.200	0.159	79.7
5	MD33	L2	True	0.0475	0.500	0.313	62.5
6	MD34	L3	True	0.0465	1.250	0.766	61.3
7	MD35	L4	True	0.0979	2.500	3.222	128.9
8	MD36	L5	True	0.0926	5.025	6.122	121.8
9	MD37	L6	True	0.0885	12.519	14.577	116.4
10	MD38	L7	True	0.0983	62.682	81.081	129.4

Analyte Name	NEtFOSAA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	584.2 / 419.1	**Result Table**	24-0220
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.89697 x (std. dev. = 0.07684) (weighting: None) RSD: 8.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.9773	0.200	0.218	109.0
5	MD33	L2	True	1.0011	0.501	0.559	111.6
6	MD34	L3	True	0.8863	1.251	1.236	98.8
7	MD35	L4	True	0.8644	2.503	2.412	96.4
8	MD36	L5	True	0.7868	5.031	4.413	87.7
9	MD37	L6	True	0.8349	12.534	11.667	93.1
10	MD38	L7	True	0.9279	62.757	64.921	103.5

Analyte Name	NEtFOSAA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	584.2 / 526.0	**Result Table**	24-0220
Internal Standard	d5-EtFOSAA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.30806 x (std. dev. = 0.06555) (weighting: None) RSD: 5.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.3259	0.200	0.203	101.4
5	MD33	L2	True	1.3109	0.501	0.502	100.2
6	MD34	L3	True	1.2832	1.251	1.227	98.1
7	MD35	L4	True	1.2967	2.503	2.481	99.1
8	MD36	L5	True	1.2321	5.031	4.739	94.2
9	MD37	L6	True	1.2679	12.534	12.150	96.9
10	MD38	L7	True	1.4397	62.757	69.072	110.1

Analyte Name	NMeFOSE	**Data File**	AH_03252024_1633.wiff
MRM Transition	616.1 / 58.9	**Result Table**	24-0220
Internal Standard	D7-MeFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.00530 x (std. dev. = 0.03747) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.9577	2.002	1.907	95.3
5	MD33	L2	True	1.0624	5.010	5.295	105.7
6	MD34	L3	True	1.0128	12.511	12.604	100.7
7	MD35	L4	True	0.9965	25.026	24.807	99.1
8	MD36	L5	True	0.9668	50.309	48.384	96.2
9	MD37	L6	True	1.0002	125.338	124.701	99.5
10	MD38	L7	True	1.0407	627.570	649.699	103.5

Analyte Name	NEtFOSE	**Data File**	AH_03252024_1633.wiff
MRM Transition	630.0 / 58.9	**Result Table**	24-0220
Internal Standard	D9-EtFOSE	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.00854 x (std. dev. = 0.02868) (weighting: None) RSD: 2.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.0053	2.006	1.999	99.7
5	MD33	L2	True	1.0524	5.020	5.238	104.4
6	MD34	L3	True	0.9928	12.536	12.341	98.4
7	MD35	L4	True	0.9940	25.076	24.714	98.6
8	MD36	L5	True	0.9666	50.410	48.315	95.8
9	MD37	L6	True	1.0124	125.588	126.075	100.4
10	MD38	L7	True	1.0362	628.824	646.096	102.8

Analyte Name	HFPO-DA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	284.9 / 168.9	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.32239 x (std. dev. = 0.05884) (weighting: None) RSD: 4.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.3222	0.800	0.800	100.0
5	MD33	L2	True	1.4080	2.002	2.132	106.5
6	MD34	L3	True	1.3402	4.999	5.066	101.4
7	MD35	L4	True	1.2632	9.998	9.550	95.5
8	MD36	L5	True	1.2350	20.099	18.771	93.4
9	MD37	L6	True	1.3669	50.075	51.762	103.4
10	MD38	L7	True	1.3212	250.727	250.499	99.9

Analyte Name	HFPO-DA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	284.9 / 184.9	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.14550 x (std. dev. = 0.01049) (weighting: None) RSD: 7.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1598	0.800	0.878	109.8
5	MD33	L2	True	0.1549	2.002	2.132	106.5
6	MD34	L3	True	0.1459	4.999	5.011	100.3
7	MD35	L4	True	0.1309	9.998	8.994	90.0
8	MD36	L5	True	0.1347	20.099	18.603	92.6
9	MD37	L6	True	0.1419	50.075	48.843	97.5
10	MD38	L7	True	0.1505	250.727	259.290	103.4

Analyte Name	ADONA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	376.9 / 250.9	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.34807 x (std. dev. = 0.38535) (weighting: None) RSD: 11.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	3.4506	0.756	0.779	103.1
5	MD33	L2	True	3.8065	1.892	2.151	113.7
6	MD34	L3	True	3.5966	4.724	5.075	107.4
7	MD35	L4	True	3.3715	9.448	9.514	100.7
8	MD36	L5	True	3.1475	18.994	17.856	94.0
9	MD37	L6	True	3.4608	47.321	48.914	103.4
10	MD38	L7	True	2.6030	236.937	184.212	77.8

Analyte Name	ADONA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	376.9 / 84.8	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.02608 x (std. dev. = 0.00258) (weighting: None) RSD: 9.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0239	0.756	0.692	91.5
5	MD33	L2	True	0.0316	1.892	2.290	121.0
6	MD34	L3	True	0.0244	4.724	4.416	93.5
7	MD35	L4	True	0.0254	9.448	9.209	97.5
8	MD36	L5	True	0.0248	18.994	18.066	95.1
9	MD37	L6	True	0.0263	47.321	47.797	101.0
10	MD38	L7	True	0.0262	236.937	237.738	100.3

Analyte Name	9Cl-PF3ONS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	530.8 / 351.0	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.42230 x (std. dev. = 0.16958) (weighting: None) RSD: 7.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	2.5060	0.746	0.772	103.5
5	MD33	L2	True	2.6416	1.867	2.036	109.1
6	MD34	L3	True	2.5297	4.664	4.871	104.4
7	MD35	L4	True	2.4320	9.328	9.365	100.4
8	MD36	L5	True	2.3494	18.753	18.189	97.0
9	MD37	L6	True	2.3905	46.720	46.106	98.7
10	MD38	L7	True	2.1069	233.928	203.469	87.0

Analyte Name	9Cl-PF3ONS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	532.8 / 353.0	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.84994 x (std. dev. = 0.04199) (weighting: None) RSD: 4.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8966	0.746	0.787	105.5
5	MD33	L2	True	0.8845	1.867	1.943	104.1
6	MD34	L3	True	0.8772	4.664	4.814	103.2
7	MD35	L4	True	0.8299	9.328	9.108	97.6
8	MD36	L5	True	0.7935	18.753	17.507	93.4
9	MD37	L6	True	0.7996	46.720	43.953	94.1
10	MD38	L7	True	0.8682	233.928	238.961	102.2

Analyte Name	11Cl-PF3OUdS_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	630.9 / 450.9	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.12320 x (std. dev. = 0.23532) (weighting: None) RSD: 11.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	2.4005	0.754	0.852	113.1
5	MD33	L2	True	2.2634	1.888	2.013	106.6
6	MD34	L3	True	2.2402	4.714	4.974	105.5
7	MD35	L4	True	2.1954	9.428	9.749	103.4
8	MD36	L5	True	1.9674	18.954	17.563	92.7
9	MD37	L6	True	2.1109	47.221	46.947	99.4
10	MD38	L7	True	1.6846	236.436	187.594	79.3

Analyte Name	11Cl-PF3OUdS_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	632.9 / 452.9	**Result Table**	24-0220
Internal Standard	13C3-HFPO-DA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.71588 x (std. dev. = 0.03782) (weighting: None) RSD: 5.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7575	0.754	0.798	105.8
5	MD33	L2	True	0.7482	1.888	1.973	104.5
6	MD34	L3	True	0.7539	4.714	4.964	105.3
7	MD35	L4	True	0.7121	9.428	9.378	99.5
8	MD36	L5	True	0.6625	18.954	17.541	92.6
9	MD37	L6	True	0.6894	47.221	45.474	96.3
10	MD38	L7	True	0.6876	236.436	227.096	96.1

Analyte Name	3:3 FTCA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	241.0 / 177.0	**Result Table**	24-0220
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08742 x (std. dev. = 0.00964) (weighting: None) RSD: 11.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0841	1.000	0.962	96.2
5	MD33	L2	True	0.0867	2.502	2.480	99.1
6	MD34	L3	True	0.0855	6.248	6.111	97.8
7	MD35	L4	True	0.0826	12.498	11.808	94.5
8	MD36	L5	True	0.0819	25.124	23.532	93.7
9	MD37	L6	True	0.0823	62.594	58.948	94.2
10	MD38	L7	True	0.1089	313.409	390.520	124.6

Analyte Name	3:3 FTCA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	241.0 / 117.0	**Result Table**	24-0220
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.00494 x (std. dev. = 5.96901e-4) (weighting: None) RSD: 12.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0043	1.000	0.869	86.9
5	MD33	L2	True	0.0046	2.502	2.318	92.7
6	MD34	L3	True	0.0047	6.248	5.923	94.8
7	MD35	L4	True	0.0053	12.498	13.418	107.4
8	MD36	L5	True	0.0048	25.124	24.260	96.6
9	MD37	L6	True	0.0049	62.594	61.477	98.2
10	MD38	L7	True	0.0061	313.409	387.074	123.5

Analyte Name	5:3 FTCA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	341.0 / 237.1	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20393 x (std. dev. = 0.01066) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2046	4.999	5.015	100.3
5	MD33	L2	True	0.2221	12.510	13.625	108.9
6	MD34	L3	True	0.2058	31.241	31.526	100.9
7	MD35	L4	True	0.2016	62.489	61.779	98.9
8	MD36	L5	True	0.2058	125.622	126.794	100.9
9	MD37	L6	True	0.2020	312.969	309.949	99.0
10	MD38	L7	True	0.1856	1567.044	1426.422	91.0

Analyte Name	5:3 FTCA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	341.0 / 217.0	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.07820 x (std. dev. = 0.00426) (weighting: None) RSD: 5.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0781	4.999	4.994	99.9
5	MD33	L2	True	0.0860	12.510	13.762	110.0
6	MD34	L3	True	0.0756	31.241	30.196	96.7
7	MD35	L4	True	0.0756	62.489	60.434	96.7
8	MD36	L5	True	0.0763	125.622	122.555	97.6
9	MD37	L6	True	0.0740	312.969	296.017	94.6
10	MD38	L7	True	0.0818	1567.044	1638.699	104.6

Analyte Name	7:3 FTCA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	441.0 / 316.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.08891 x (std. dev. = 0.00548) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0898	4.999	5.047	101.0
5	MD33	L2	True	0.0892	12.510	12.552	100.3
6	MD34	L3	True	0.0838	31.241	29.442	94.2
7	MD35	L4	True	0.0869	62.489	61.087	97.8
8	MD36	L5	True	0.0852	125.622	120.442	95.9
9	MD37	L6	True	0.0870	312.969	306.340	97.9
10	MD38	L7	True	0.1004	1567.044	1769.831	112.9

Analyte Name	7:3 FTCA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	441.0 / 336.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.20696 x (std. dev. = 0.00900) (weighting: None) RSD: 4.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2173	4.999	5.249	105.0
5	MD33	L2	True	0.2149	12.510	12.991	103.8
6	MD34	L3	True	0.2114	31.241	31.911	102.2
7	MD35	L4	True	0.2033	62.489	61.373	98.2
8	MD36	L5	True	0.2088	125.622	126.709	100.9
9	MD37	L6	True	0.2021	312.969	305.664	97.7
10	MD38	L7	True	0.1910	1567.044	1445.885	92.3

Analyte Name	NFDHA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	295.0 / 201.1	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.21520 x (std. dev. = 0.01353) (weighting: None) RSD: 6.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2182	0.400	0.406	101.4
5	MD33	L2	True	0.2340	1.001	1.088	108.7
6	MD34	L3	True	0.2166	2.499	2.516	100.7
7	MD35	L4	True	0.2100	4.999	4.879	97.6
8	MD36	L5	True	0.1990	10.050	9.295	92.5
9	MD37	L6	True	0.1994	25.038	23.194	92.6
10	MD38	L7	True	0.2292	125.364	133.508	106.5

Analyte Name	NFDHA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	295.0 / 84.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.13576 x (std. dev. = 0.00947) (weighting: None) RSD: 7.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1420	0.400	0.418	104.6
5	MD33	L2	True	0.1524	1.001	1.124	112.3
6	MD34	L3	True	0.1375	2.499	2.531	101.3
7	MD35	L4	True	0.1284	4.999	4.729	94.6
8	MD36	L5	True	0.1286	10.050	9.518	94.7
9	MD37	L6	True	0.1251	25.038	23.077	92.2
10	MD38	L7	True	0.1363	125.364	125.866	100.4

Analyte Name	PFEESA_1	**Data File**	AH_03252024_1633.wiff
MRM Transition	314.8 / 134.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 2.90131 x (std. dev. = 0.34951) (weighting: None) RSD: 12.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	3.1394	0.357	0.386	108.2
5	MD33	L2	True	3.2796	0.893	1.009	113.0
6	MD34	L3	True	3.0330	2.229	2.330	104.5
7	MD35	L4	True	2.9448	4.459	4.526	101.5
8	MD36	L5	True	2.8534	8.964	8.816	98.4
9	MD37	L6	True	2.8725	22.334	22.112	99.0
10	MD38	L7	True	2.1866	111.824	84.276	75.4

Analyte Name	PFEESA_2	**Data File**	AH_03252024_1633.wiff
MRM Transition	314.8 / 82.9	**Result Table**	24-0220
Internal Standard	13C5-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.13986 x (std. dev. = 0.00942) (weighting: None) RSD: 6.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1503	0.357	0.384	107.5
5	MD33	L2	True	0.1484	0.893	0.948	106.1
6	MD34	L3	True	0.1443	2.229	2.300	103.2
7	MD35	L4	True	0.1402	4.459	4.470	100.3
8	MD36	L5	True	0.1384	8.964	8.872	99.0
9	MD37	L6	True	0.1349	22.334	21.536	96.4
10	MD38	L7	True	0.1225	111.824	97.911	87.6

Analyte Name	PFMPA	**Data File**	AH_03252024_1633.wiff
MRM Transition	229.0 / 84.9	**Result Table**	24-0220
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.75246 x (std. dev. = 0.04575) (weighting: None) RSD: 6.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7131	0.400	0.379	94.8
5	MD33	L2	True	0.7680	1.001	1.022	102.1
6	MD34	L3	True	0.7576	2.499	2.516	100.7
7	MD35	L4	True	0.7323	4.999	4.865	97.3
8	MD36	L5	True	0.7413	10.050	9.901	98.5
9	MD37	L6	True	0.7105	25.038	23.642	94.4
10	MD38	L7	True	0.8444	125.364	140.676	112.2

Analyte Name	PFMBA	**Data File**	AH_03252024_1633.wiff
MRM Transition	279.0 / 85.1	**Result Table**	24-0220
Internal Standard	13C5-PFPeA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.46752 x (std. dev. = 0.07502) (weighting: None) RSD: 5.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.4577	0.400	0.397	99.3
5	MD33	L2	True	1.5656	1.001	1.068	106.7
6	MD34	L3	True	1.5054	2.499	2.563	102.6
7	MD35	L4	True	1.4365	4.999	4.893	97.9
8	MD36	L5	True	1.4040	10.050	9.615	95.7
9	MD37	L6	True	1.3592	25.038	23.190	92.6
10	MD38	L7	True	1.5443	125.364	131.922	105.2

Analyte Name	TDCA	**Data File**	AH_03252024_1633.wiff
MRM Transition	499.0 / 107.0	**Result Table**	24-0220
Internal Standard	N/A	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: Not enough data points. RSD: Div0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	N/A	0.000	N/A	N/A
5	MD33	L2	True	N/A	0.000	N/A	N/A
6	MD34	L3	True	N/A	0.000	N/A	N/A
7	MD35	L4	True	N/A	0.000	N/A	N/A
8	MD36	L5	True	N/A	0.000	N/A	N/A
9	MD37	L6	True	N/A	0.000	N/A	N/A
10	MD38	L7	True	N/A	0.000	N/A	N/A

Analyte Name	13C4-PFBA	**Data File**	AH_03252024_1633.wiff
MRM Transition	216.8 / 171.9	**Result Table**	24-0220_SIS
Internal Standard	13C3-PFBA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.96812 x (std. dev. = 0.02007) (weighting: None) RSD: 2.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.9767	9.998	10.087	100.9
5	MD33	L2	True	0.9382	10.008	9.699	96.9
6	MD34	L3	True	0.9609	9.997	9.923	99.3
7	MD35	L4	True	0.9770	9.998	10.089	100.9
8	MD36	L5	True	0.9811	10.050	10.185	101.4
9	MD37	L6	True	0.9952	10.015	10.295	102.8
10	MD38	L7	True	0.9477	10.029	9.817	97.9

Analyte Name	13C5-PFPeA	**Data File**	AH_03252024_1633.wiff
MRM Transition	268.3 / 223.0	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.63421 x (std. dev. = 0.03606) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.6294	4.999	4.961	99.2
5	MD33	L2	True	0.6423	5.004	5.068	101.3
6	MD34	L3	True	0.6591	4.999	5.195	103.9
7	MD35	L4	True	0.6615	4.999	5.214	104.3
8	MD36	L5	True	0.6117	5.025	4.847	96.5
9	MD37	L6	True	0.6693	5.008	5.285	105.5
10	MD38	L7	True	0.5663	5.015	4.478	89.3

Analyte Name	13C5-PFHxA	**Data File**	AH_03252024_1633.wiff
MRM Transition	318.0 / 273.0	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.29341 x (std. dev. = 0.05225) (weighting: None) RSD: 4.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.2714	2.499	2.456	98.3
5	MD33	L2	True	1.2860	2.502	2.488	99.4
6	MD34	L3	True	1.3410	2.499	2.591	103.7
7	MD35	L4	True	1.3432	2.500	2.596	103.9
8	MD36	L5	True	1.2562	2.512	2.440	97.1
9	MD37	L6	True	1.3460	2.504	2.606	104.1
10	MD38	L7	True	1.2101	2.507	2.345	93.6

Analyte Name	13C4-PFHpA	**Data File**	AH_03252024_1633.wiff
MRM Transition	367.1 / 322.0	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.59831 x (std. dev. = 0.07609) (weighting: None) RSD: 4.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.5355	2.499	2.401	96.1
5	MD33	L2	True	1.6023	2.502	2.508	100.3
6	MD34	L3	True	1.6138	2.499	2.523	101.0
7	MD35	L4	True	1.6841	2.500	2.634	105.4
8	MD36	L5	True	1.6589	2.512	2.607	103.8
9	MD37	L6	True	1.6310	2.504	2.555	102.1
10	MD38	L7	True	1.4626	2.507	2.294	91.5

Analyte Name	13C8-PFOA	**Data File**	AH_03252024_1633.wiff
MRM Transition	421.1 / 376.0	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.05949 x (std. dev. = 0.05532) (weighting: None) RSD: 5.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.0486	2.499	2.473	99.0
5	MD33	L2	True	1.0083	2.502	2.381	95.2
6	MD34	L3	True	1.0737	2.499	2.533	101.3
7	MD35	L4	True	1.0906	2.500	2.573	102.9
8	MD36	L5	True	1.1587	2.512	2.747	109.4
9	MD37	L6	True	0.9938	2.504	2.349	93.8
10	MD38	L7	True	1.0427	2.507	2.467	98.4

Analyte Name	13C9-PFNA	**Data File**	AH_03252024_1633.wiff
MRM Transition	472.1 / 427.0	**Result Table**	24-0220_SIS
Internal Standard	13C5-PFNA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.86920 x (std. dev. = 0.07082) (weighting: None) RSD: 8.1

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8064	1.250	1.160	92.8
5	MD33	L2	True	0.8100	1.251	1.166	93.2
6	MD34	L3	True	0.8102	1.250	1.165	93.2
7	MD35	L4	True	0.8527	1.250	1.226	98.1
8	MD36	L5	True	0.9949	1.256	1.438	114.5
9	MD37	L6	True	0.8892	1.252	1.281	102.3
10	MD38	L7	True	0.9210	1.254	1.329	106.0

Analyte Name	13C6-PFDA	**Data File**	AH_03252024_1633.wiff
MRM Transition	519.1 / 474.1	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 1.15561 x (std. dev. = 0.06106) (weighting: None) RSD: 5.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	1.2200	1.250	1.320	105.6
5	MD33	L2	True	1.1526	1.251	1.248	99.7
6	MD34	L3	True	1.1913	1.250	1.289	103.1
7	MD35	L4	True	1.2071	1.250	1.306	104.5
8	MD36	L5	True	1.0527	1.256	1.144	91.1
9	MD37	L6	True	1.1692	1.252	1.267	101.2
10	MD38	L7	True	1.0963	1.254	1.190	94.9

Analyte Name	13C7-PFUnA	**Data File**	AH_03252024_1633.wiff
MRM Transition	570.0 / 525.1	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.72585 x (std. dev. = 0.04529) (weighting: None) RSD: 6.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7325	1.250	1.261	100.9
5	MD33	L2	True	0.6775	1.251	1.168	93.3
6	MD34	L3	True	0.7396	1.250	1.274	101.9
7	MD35	L4	True	0.7570	1.250	1.304	104.3
8	MD36	L5	True	0.7894	1.256	1.366	108.8
9	MD37	L6	True	0.7278	1.252	1.255	100.3
10	MD38	L7	True	0.6571	1.254	1.135	90.5

Analyte Name	13C2-PFDoA	**Data File**	AH_03252024_1633.wiff
MRM Transition	615.1 / 570.0	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.86570 x (std. dev. = 0.02825) (weighting: None) RSD: 3.3

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8736	1.250	1.261	100.9
5	MD33	L2	True	0.8409	1.251	1.215	97.1
6	MD34	L3	True	0.9235	1.250	1.333	106.7
7	MD35	L4	True	0.8710	1.250	1.258	100.6
8	MD36	L5	True	0.8506	1.256	1.234	98.3
9	MD37	L6	True	0.8463	1.252	1.224	97.8
10	MD38	L7	True	0.8540	1.254	1.237	98.7

Analyte Name	13C2-PFTeDA	**Data File**	AH_03252024_1633.wiff
MRM Transition	715.2 / 670.0	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFDA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.49265 x (std. dev. = 0.01845) (weighting: None) RSD: 3.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.5249	1.250	1.332	106.5
5	MD33	L2	True	0.4760	1.251	1.209	96.6
6	MD34	L3	True	0.5048	1.250	1.281	102.5
7	MD35	L4	True	0.4800	1.250	1.218	97.4
8	MD36	L5	True	0.4735	1.256	1.207	96.1
9	MD37	L6	True	0.4898	1.252	1.245	99.4
10	MD38	L7	True	0.4994	1.254	1.271	101.4

Analyte Name	13C3-PFBS	**Data File**	AH_03252024_1633.wiff
MRM Transition	302.1 / 79.9	**Result Table**	24-0220_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 5.15473 x (std. dev. = 0.31051) (weighting: None) RSD: 6.0

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	5.4561	2.329	2.465	105.9
5	MD33	L2	True	4.9921	2.332	2.258	96.8
6	MD34	L3	True	4.9526	2.329	2.238	96.1
7	MD35	L4	True	5.6120	2.330	2.537	108.9
8	MD36	L5	True	5.0189	2.342	2.280	97.4
9	MD37	L6	True	5.3081	2.334	2.403	103.0
10	MD38	L7	True	4.7433	2.337	2.150	92.0

Analyte Name	13C3-PFHxS	**Data File**	AH_03252024_1633.wiff
MRM Transition	402.1 / 79.9	**Result Table**	24-0220_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 3.83614 x (std. dev. = 0.24460) (weighting: None) RSD: 6.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	3.8477	2.369	2.376	100.3
5	MD33	L2	True	3.4414	2.372	2.128	89.7
6	MD34	L3	True	3.6412	2.369	2.249	94.9
7	MD35	L4	True	4.1022	2.370	2.534	106.9
8	MD36	L5	True	3.8744	2.382	2.406	101.0
9	MD37	L6	True	3.8068	2.374	2.356	99.2
10	MD38	L7	True	4.1393	2.377	2.565	107.9

Analyte Name	13C8-PFOS	**Data File**	AH_03252024_1633.wiff
MRM Transition	507.1 / 79.9	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.78742 x (std. dev. = 0.05650) (weighting: None) RSD: 7.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.8269	2.394	2.514	105.0
5	MD33	L2	True	0.7478	2.397	2.276	95.0
6	MD34	L3	True	0.8221	2.394	2.499	104.4
7	MD35	L4	True	0.7209	2.395	2.193	91.6
8	MD36	L5	True	0.8783	2.407	2.685	111.5
9	MD37	L6	True	0.7723	2.399	2.353	98.1
10	MD38	L7	True	0.7437	2.402	2.269	94.5

Analyte Name	13C2-4:2FTS	**Data File**	AH_03252024_1633.wiff
MRM Transition	329.1 / 80.9	**Result Table**	24-0220_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.72684 x (std. dev. = 0.07775) (weighting: None) RSD: 10.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7316	4.689	4.720	100.7
5	MD33	L2	True	0.6719	4.694	4.339	92.4
6	MD34	L3	True	0.6465	4.689	4.171	88.9
7	MD35	L4	True	0.7779	4.689	5.019	107.0
8	MD36	L5	True	0.7195	4.713	4.666	99.0
9	MD37	L6	True	0.6694	4.697	4.326	92.1
10	MD38	L7	True	0.8711	4.704	5.637	119.8

Analyte Name	13C2-6:2FTS	**Data File**	AH_03252024_1633.wiff
MRM Transition	429.1 / 80.9	**Result Table**	24-0220_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.29759 x (std. dev. = 0.03826) (weighting: None) RSD: 12.9

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2853	4.754	4.557	95.9
5	MD33	L2	True	0.2654	4.759	4.245	89.2
6	MD34	L3	True	0.2796	4.754	4.467	94.0
7	MD35	L4	True	0.3114	4.754	4.974	104.6
8	MD36	L5	True	0.2731	4.779	4.385	91.8
9	MD37	L6	True	0.2906	4.762	4.650	97.6
10	MD38	L7	True	0.3778	4.769	6.054	127.0

Analyte Name	13C2-8:2FTS	**Data File**	AH_03252024_1633.wiff
MRM Transition	529.1 / 80.9	**Result Table**	24-0220_SIS
Internal Standard	18O2-PFHxS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.09011 x (std. dev. = 0.01211) (weighting: None) RSD: 13.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.0971	4.799	5.174	107.8
5	MD33	L2	True	0.0810	4.804	4.320	89.9
6	MD34	L3	True	0.0766	4.799	4.079	85.0
7	MD35	L4	True	0.0912	4.799	4.857	101.2
8	MD36	L5	True	0.0838	4.824	4.485	93.0
9	MD37	L6	True	0.0881	4.807	4.701	97.8
10	MD38	L7	True	0.1129	4.814	6.031	125.3

Analyte Name	13C8-PFOSA	**Data File**	AH_03252024_1633.wiff
MRM Transition	506.1 / 77.8	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.71574 x (std. dev. = 0.03925) (weighting: None) RSD: 5.5

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.7494	2.499	2.616	104.7
5	MD33	L2	True	0.6614	2.502	2.312	92.4
6	MD34	L3	True	0.7242	2.499	2.529	101.2
7	MD35	L4	True	0.6653	2.500	2.324	93.0
8	MD36	L5	True	0.7457	2.512	2.617	104.2
9	MD37	L6	True	0.7086	2.504	2.479	99.0
10	MD38	L7	True	0.7556	2.507	2.646	105.6

Analyte Name	D3-MeFOSA	**Data File**	AH_03252024_1633.wiff
MRM Transition	515.0 / 219.0	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.26302 x (std. dev. = 0.01725) (weighting: None) RSD: 6.6

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2720	2.499	2.584	103.4
5	MD33	L2	True	0.2415	2.502	2.297	91.8
6	MD34	L3	True	0.2613	2.499	2.483	99.4
7	MD35	L4	True	0.2439	2.500	2.318	92.7
8	MD36	L5	True	0.2706	2.512	2.584	102.9
9	MD37	L6	True	0.2604	2.504	2.479	99.0
10	MD38	L7	True	0.2914	2.507	2.778	110.8

Analyte Name	D5-EtFOSA	**Data File**	AH_03252024_1633.wiff
MRM Transition	531.1 / 219.0	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.25752 x (std. dev. = 0.01750) (weighting: None) RSD: 6.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2605	2.499	2.528	101.2
5	MD33	L2	True	0.2339	2.502	2.272	90.8
6	MD34	L3	True	0.2618	2.499	2.540	101.7
7	MD35	L4	True	0.2354	2.500	2.285	91.4
8	MD36	L5	True	0.2763	2.512	2.695	107.3
9	MD37	L6	True	0.2571	2.504	2.500	99.8
10	MD38	L7	True	0.2777	2.507	2.703	107.8

Analyte Name	d3-MeFOSAA	**Data File**	AH_03252024_1633.wiff
MRM Transition	573.2 / 419.0	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.22354 x (std. dev. = 0.01822) (weighting: None) RSD: 8.2

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.2479	4.999	5.544	110.9
5	MD33	L2	True	0.2207	5.004	4.940	98.7
6	MD34	L3	True	0.2500	4.999	5.591	111.9
7	MD35	L4	True	0.2100	4.999	4.696	93.9
8	MD36	L5	True	0.2157	5.025	4.848	96.5
9	MD37	L6	True	0.2168	5.008	4.858	97.0
10	MD38	L7	True	0.2036	5.015	4.568	91.1

Analyte Name	d5-EtFOSAA	**Data File**	AH_03252024_1633.wiff
MRM Transition	589.2 / 419.0	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.19510 x (std. dev. = 0.01122) (weighting: None) RSD: 5.8

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.1998	4.999	5.119	102.4
5	MD33	L2	True	0.1860	5.004	4.770	95.3
6	MD34	L3	True	0.2058	4.999	5.274	105.5
7	MD35	L4	True	0.1782	4.999	4.565	91.3
8	MD36	L5	True	0.2104	5.025	5.418	107.8
9	MD37	L6	True	0.1944	5.008	4.990	99.6
10	MD38	L7	True	0.1912	5.015	4.915	98.0

Analyte Name	D7-MeFOSE	**Data File**	AH_03252024_1633.wiff
MRM Transition	623.2 / 58.9	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.42166 x (std. dev. = 0.01973) (weighting: None) RSD: 4.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.4401	24.994	26.086	104.4
5	MD33	L2	True	0.4001	25.020	23.742	94.9
6	MD34	L3	True	0.4402	24.993	26.091	104.4
7	MD35	L4	True	0.3947	24.996	23.399	93.6
8	MD36	L5	True	0.4415	25.124	26.305	104.7
9	MD37	L6	True	0.4133	25.038	24.542	98.0
10	MD38	L7	True	0.4217	25.073	25.076	100.0

Analyte Name	D9-EtFOSE	**Data File**	AH_03252024_1633.wiff
MRM Transition	639.2 / 58.9	**Result Table**	24-0220_SIS
Internal Standard	13C4-PFOS	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.50379 x (std. dev. = 0.02863) (weighting: None) RSD: 5.7

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.5226	24.994	25.929	103.7
5	MD33	L2	True	0.4768	25.020	23.680	94.7
6	MD34	L3	True	0.5368	24.993	26.630	106.6
7	MD35	L4	True	0.4736	24.996	23.496	94.0
8	MD36	L5	True	0.5404	25.124	26.952	107.3
9	MD37	L6	True	0.4875	25.038	24.230	96.8
10	MD38	L7	True	0.4888	25.073	24.325	97.0

Analyte Name	13C3-HFPO-DA	**Data File**	AH_03252024_1633.wiff
MRM Transition	286.9 / 168.9	**Result Table**	24-0220_SIS
Internal Standard	13C2-PFHxA	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Acquisition Method**	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm

Average RR/RF/RF_s: y = 0.69710 x (std. dev. = 0.04442) (weighting: None) RSD: 6.4

Vial	Sample Name	Sample ID	Used for ICAL	RR/RF/RF_s	Target Conc. (ng/mL)	Calculated Conc. (ng/mL)	Recovery (%)
4	MD32	L1	True	0.6869	9.998	9.851	98.5
5	MD33	L2	True	0.6984	10.008	10.026	100.2
6	MD34	L3	True	0.7197	9.997	10.321	103.2
7	MD35	L4	True	0.7382	9.998	10.588	105.9
8	MD36	L5	True	0.7190	10.050	10.365	103.1
9	MD37	L6	True	0.7141	10.015	10.260	102.4
10	MD38	L7	True	0.6035	10.029	8.682	86.6

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		Isotope Dilution Calibration Curve Concentrations (ng/mL)							IB (ng/mL)	ICC (ng/mL)
Analyte	CAS No.	MD32	MD33	MD34	MD35	MD36	MD37	MD38	MD39	MD40
PFBA	375-22-4	0.800	2.002	4.999	9.998	20.099	50.075	250.727	-	5.000
PFPeA	2706-90-3	0.400	1.001	2.499	4.999	10.050	25.038	125.364	-	5.050
PFHxA	307-24-4	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFHpA	375-85-9	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFOA (branched)	335-67-1	0.200	0.501	1.251	2.503	5.031	12.534	62.757	-	5.000
PFNA (branched)	375-95-1	0.200	0.500	1.249	2.498	5.021	12.509	62.632	-	5.000
PFDA	335-76-2	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFUnA	2058-94-8	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFDoA	307-55-1	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFTrDA	72629-94-8	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFTeDA	376-06-7	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
PFBS	375-73-5	0.178	0.444	1.110	2.220	4.462	11.117	55.661	-	5.000
PFPeS	2706-91-4	0.188	0.470	1.175	2.350	4.723	11.768	58.921	-	5.000
PFHxS (branched)	355-46-4	0.182	0.457	1.140	2.281	4.585	11.422	57.191	-	5.000
PFHpS	375-92-8	0.190	0.476	1.190	2.380	4.784	11.918	59.673	-	5.000
PFOS (branched)	1763-23-1	0.186	0.464	1.160	2.320	4.663	11.617	58.169	-	5.000
PFNS	68259-12-1	0.192	0.480	1.200	2.400	4.824	12.018	60.175	-	5.050
PFDS	335-77-3	0.193	0.482	1.205	2.410	4.844	12.068	60.425	-	5.050
PFDoS	79780-39-5	0.194	0.484	1.210	2.420	4.864	12.118	60.676	-	4.850
4:2FTS	757124-72-4	0.749	1.876	4.684	9.368	18.833	46.920	234.931	-	5.000
6:2FTS	27619-97-2	0.761	1.904	4.754	9.508	19.115	47.621	238.441	-	5.000
8:2FTS	39108-34-4	0.768	1.922	4.799	9.598	19.296	48.072	240.698	-	5.050
PFOSA (branched)	754-91-6	0.201	0.502	1.255	2.510	5.045	12.569	62.933	-	5.000
NMeFOSA (branched)	31506-32-8	0.200	0.501	1.250	2.501	5.027	12.524	62.707	-	5.000
NEtFOSA (branched)	4151-50-2	0.200	0.501	1.252	2.505	5.035	12.544	62.807	-	5.000
NMeFOSAA (branched)	2355-31-9	0.200	0.500	1.250	2.500	5.025	12.519	62.682	-	5.000
NEtFOSAA (branched)	2991-50-6	0.200	0.501	1.251	2.503	5.031	12.534	62.757	-	5.000
NMeFOSE (branched)	24448-09-7	2.002	5.010	12.511	25.026	50.309	125.338	627.570	-	5.000
NEtFOSE (branched)	1691-99-2	2.006	5.020	12.536	25.076	50.410	125.588	628.824	-	5.000
HFPO-DA	13252-13-6	0.800	2.002	4.999	9.998	20.099	50.075	250.727	-	5.000
Adona	919005-14-4	0.756	1.892	4.724	9.448	18.994	47.321	236.937	-	5.000
9Cl-PF3ONS	756426-58-1	0.746	1.867	4.664	9.328	18.753	46.720	233.928	-	5.000
11Cl-PF3OUdS	763051-92-9	0.754	1.888	4.714	9.428	18.954	47.221	236.436	-	5.000
3:3 FTCA	356-02-5	1.000	2.502	6.248	12.498	25.124	62.594	313.409	-	6.250
5:3 FTCA	914637-49-3	4.999	12.510	31.241	62.489	125.622	312.969	1,567.044	-	6.250
7:3 FTCA	812-70-4	4.999	12.510	31.241	62.489	125.622	312.969	1,567.044	-	6.250
PFMPA	377-73-1	0.400	1.001	2.499	4.999	10.050	25.038	125.364	-	5.000
PFEESA	113507-82-7	0.357	0.893	2.229	4.459	8.964	22.334	111.824	-	4.460
NFDHA	151772-58-6	0.400	1.001	2.499	4.999	10.050	25.038	125.364	-	5.000
PFMBA	863090-89-5	0.400	1.001	2.499	4.999	10.050	25.038	125.364	-	5.000

		Surrogates / Extracted Internal Standards								
13C4-PFBA	-	9.998	10.008	9.997	9.998	10.050	10.015	10.029	10.004	10.000
13C5-PFPeA	-	4.999	5.004	4.999	4.999	5.025	5.008	5.015	5.002	5.000
13C5-PFHxA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
13C4-PFHpA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
13C8-PFOA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
13C9-PFNA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C6-PFDA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C7-PFUnA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C2-PFDoA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C2-PFTeDA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C3-PFBS	-	2.329	2.332	2.329	2.330	2.342	2.334	2.337	2.331	2.330
13C3-PFHxS	-	2.369	2.372	2.369	2.370	2.382	2.374	2.377	2.371	2.370
13C8-PFOS	-	2.394	2.397	2.394	2.395	2.407	2.399	2.402	2.396	2.395
13C2-4:2FTS	-	4.689	4.694	4.689	4.689	4.713	4.697	4.704	4.692	4.690
13C2-6:2FTS	-	4.754	4.759	4.754	4.754	4.779	4.762	4.769	4.757	4.755
13C2-8:2FTS	-	4.799	4.804	4.799	4.799	4.824	4.807	4.814	4.802	4.800
13C8-FOSA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
D3-MeFOSA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
D5-EtFOSA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
d3-MeFOSAA	-	4.999	5.004	4.999	4.999	5.025	5.008	5.015	5.002	5.000
d5-EtFOSAA	-	4.999	5.004	4.999	4.999	5.025	5.008	5.015	5.002	5.000
D7-MeFOSE	-	24.994	25.020	24.993	24.996	25.124	25.038	25.073	25.009	25.000
D9-EtFOSE	-	24.994	25.020	24.993	24.996	25.124	25.038	25.073	25.009	25.000
13C3-HFPO-DA	-	9.998	10.008	9.997	9.998	10.050	10.015	10.029	10.004	10.000
		Internal Standards								
13C3-PFBA	-	4.999	5.004	4.999	4.999	5.025	5.008	5.015	5.002	5.000
13C2-PFHxA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
13C4-PFOA	-	2.499	2.502	2.499	2.500	2.512	2.504	2.507	2.501	2.500
13C5-PFNA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
13C2-PFDA	-	1.250	1.251	1.250	1.250	1.256	1.252	1.254	1.250	1.250
18O2-PFHxS	-	2.369	2.372	2.369	2.370	2.382	2.374	2.377	2.371	2.370
13C4-PFOS	-	2.394	2.397	2.394	2.395	2.407	2.399	2.402	2.396	2.395

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PFAS Calibration Quant Report

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Sample Name	MD32	**Injection Vial**	4
Sample ID	L1	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.33	125717.49	0.789	1052.3	2.31	13C4-PFBA	1616108.85	9.998				
PFPeA	263.0 / 219.0	4.98	132853.41	0.378	1170.3	4.96	13C5-PFPeA	1130106.21	4.999		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.00	98566.93	0.214	455.3	5.98	13C5-PFHxA	1141246.61	2.499	PFHxA			
PFHxA_2	313.0 / 118.9	6.00	5714.90	0.217	120.8	5.98	13C5-PFHxA	1141246.61	2.499	PFHxA	0.058	0.057	✓
PFHpA_1	363.1 / 319.0	6.68	97789.41	0.209	284.1	6.67	13C4-PFHpA	1378277.65	2.499	PFHpA			
PFHpA_2	363.1 / 169.0	6.68	1041.31	0.164	2288491.2	6.67	13C4-PFHpA	1378277.65	2.499	PFHpA	0.011	0.014	✓
PFOA_1	413.0 / 369.0	7.21	127431.93	0.213	211.5	7.20	13C8-PFOA	1654082.20	2.499	PFOA			
PFOA_2	413.0 / 169.0	7.14	12798.95	0.235	686.9	7.20	13C8-PFOA	1654082.20	2.499	PFOA	0.100	0.091	✓
PFNA_1	463.0 / 419.0	7.67	72402.32	0.235	166.6	7.65	13C9-PFNA	661105.28	1.250	PFNA			
PFNA_2	463.0 / 219.0	7.66	30327.14	0.199	307.2	7.65	13C9-PFNA	661105.28	1.250	PFNA	0.419	0.496	✓
PFDA_1	512.9 / 469.0	8.08	113756.01	0.214	470.6	8.07	13C6-PFDA	616271.59	1.250	PFDA			
PFDA_2	512.9 / 219.0	8.09	2547.89	0.166	423.6	8.07	13C6-PFDA	616271.59	1.250	PFDA	0.022	0.029	✓
PFUnA_1	563.1 / 519.0	8.47	63307.97	0.207	405.6	8.46	13C7-PFUnA	369990.91	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	8.48	2442.14	0.216	2280.5	8.46	13C7-PFUnA	369990.91	1.250	PFUnA	0.039	0.037	✓
PFDoA_1	613.1 / 569.0	8.85	37222.84	0.215	332.9	8.84	13C2-PFDoA	441276.53	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	8.86	6535.93	0.157	1117.6	8.84	13C2-PFDoA	441276.53	1.250	PFDoA	0.176	0.241	✓
PFTrDA_1	663.0 / 619.0	9.22	92817.41	0.207	445.7	9.57	13C2-PFTeDA	265134.01	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.22	4337.24	0.241	512.2	9.57	13C2-PFTeDA	265134.01	1.250	PFTrDA	0.047	0.040	✓
PFTeDA_1	713.0 / 669.0	9.58	77564.87	0.206	662.9	9.57	13C2-PFTeDA	265134.01	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.58	2823.39	0.255	198.3	9.57	13C2-PFTeDA	265134.01	1.250	PFTeDA	0.036	0.029	✓
PFBS_1	298.7 / 79.9	5.91	69006.85	0.178	813.1	5.90	13C3-PFBS	1072761.90	2.329	PFBS			
PFBS_2	298.9 / 98.8	5.91	23326.38	0.176	162.3	5.90	13C3-PFBS	1072761.90	2.329	PFBS	0.338	0.341	✓
PFPeS_1	349.1 / 79.9	6.72	36691.81	0.183	720.9	7.28	13C3-PFHxS	769505.23	2.369	PFPeS			
PFPeS_2	349.1 / 98.9	6.72	19140.70	0.205	469.8	7.28	13C3-PFHxS	769505.23	2.369	PFPeS	0.522	0.466	✓
PFHxS_1	398.7 / 79.9	7.30	74857.17	0.203	552.3	7.28	13C3-PFHxS	769505.23	2.369	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	28612.55	0.217	89.1	7.28	13C3-PFHxS	769505.23	2.369	PFHxS	0.382	0.358	✓
PFHpS_1	449.0 / 79.9	7.78	73196.17	0.193	537.4	8.20	13C8-PFOS	610436.91	2.394	PFHpS			
PFHpS_2	449.0 / 98.9	7.78	22386.89	0.190	289.2	8.20	13C8-PFOS	610436.91	2.394	PFHpS	0.306	0.311	✓
PFOS_1	498.9 / 79.9	8.21	79626.37	0.195	241.3	8.20	13C8-PFOS	610436.91	2.394	PFOS			
PFOS_2	498.9 / 98.9	8.21	16682.60	0.188	258.0	8.20	13C8-PFOS	610436.91	2.394	PFOS	0.210	0.218	✓
PFNS_1	548.8 / 79.9	8.61	58920.27	0.206	536.6	8.20	13C8-PFOS	610436.91	2.394	PFNS			
PFNS_2	548.8 / 98.9	8.61	10845.78	0.205	543.4	8.20	13C8-PFOS	610436.91	2.394	PFNS	0.184	0.185	✓
PFDS_1	599.0 / 79.9	9.01	69278.61	0.202	722.8	8.20	13C8-PFOS	610436.91	2.394	PFDS			
PFDS_2	599.0 / 98.9	9.00	18501.64	0.187	444.1	8.20	13C8-PFOS	610436.91	2.394	PFDS	0.267	0.289	✓
PFDoS_1	699.1 / 79.9	9.73	38936.08	0.168	462.8	8.20	13C8-PFOS	610436.91	2.394	PFDoS			
PFDoS_2	699.1 / 98.9	9.73	12405.55	0.165	431.6	8.20	13C8-PFOS	610436.91	2.394	PFDoS	0.319	0.325	✓

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PFAS Calibration Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_1	327.1 / 307.0	5.77	16577.35	0.686	1638.7	5.76	13C2-4:2FTS	289590.49	4.689	4:2FTS			
4:2FTS_2	327.1 / 80.9	5.77	47500.72	0.777	530.6	5.76	13C2-4:2FTS	289590.49	4.689	4:2FTS	2.865	2.541	✓
6:2FTS_1	427.1 / 407.0	7.02	58299.70	0.786	59227.9	7.02	13C2-6:2FTS	114482.89	4.754	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.02	21187.23	0.844	263.2	7.02	13C2-6:2FTS	114482.89	4.754	6:2FTS	0.363	0.339	✓
8:2FTS_1	527.1 / 507.0	7.90	65190.55	0.648	2279.6	7.89	13C2-8:2FTS	39355.43	4.799	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.90	6942.34	0.811	169.9	7.89	13C2-8:2FTS	39355.43	4.799	8:2FTS	0.107	0.086	✓
PFOSA_1	498.1 / 77.9	8.80	55612.46	0.200	12084.0	8.80	13C8-PFOSA	577480.34	2.499	PFOSA			
PFOSA_2	498.1 / 478.0	8.79	347.92	0.183	102560.7	8.80	13C8-PFOSA	577480.34	2.499	PFOSA	0.006	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.28	3421.64	0.209	167.6	10.29	D3-MeFOSA	209600.82	2.499	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.30	2724.78	0.178	103.8	10.29	D3-MeFOSA	209600.82	2.499	NMeFOSA	0.796	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.61	3423.47	0.215	115.3	10.60	D5-EtFOSA	200752.76	2.499	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.54	2805.66	0.193	67.4	10.60	D5-EtFOSA	200752.76	2.499	NEtFOSA	0.820	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.09	12980.15	0.180	5170.1	8.09	d3-MeFOSAA	382173.29	4.999	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.09	926.23	0.159	184491.5	8.09	d3-MeFOSAA	382173.29	4.999	NMeFOSAA	0.071	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.26	12067.33	0.218	7864.9	8.25	d5-EtFOSAA	308614.29	4.999	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.25	16371.15	0.203	43203.5	8.25	d5-EtFOSAA	308614.29	4.999	NEtFOSAA	1.357	1.464	✓
NMeFOSE	616.1 / 58.9	10.19	260181.36	1.907	466.1	10.17	D7-MeFOSE	3391870.70	24.994		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.49	324988.21	1.999	1425.4	10.48	D9-EtFOSE	4028020.74	24.994		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.25	260976.07	0.800	3240.0	6.24	13C3-HFPO-DA	2466695.41	9.998	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.25	31530.77	0.878	858.4	6.24	13C3-HFPO-DA	2466695.41	9.998	HFPO-DA	0.121	0.110	✓
ADONA_1	376.9 / 250.9	6.88	643610.62	0.779	55867.5	6.24	13C3-HFPO-DA	2466695.41	9.998	ADONA			
ADONA_2	376.9 / 84.8	6.87	4453.30	0.692	11421.8	6.24	13C3-HFPO-DA	2466695.41	9.998	ADONA	0.007	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.49	461226.35	0.772	2635.2	6.24	13C3-HFPO-DA	2466695.41	9.998	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.48	165026.72	0.787	1313.3	6.24	13C3-HFPO-DA	2466695.41	9.998	9Cl-PF3ONS	0.358	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.26	446552.24	0.852	3421.5	6.24	13C3-HFPO-DA	2466695.41	9.998	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	140914.26	0.798	2092.6	6.24	13C3-HFPO-DA	2466695.41	9.998	11Cl-PF3OUdS	0.316	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.30	19004.24	0.962	2210.8	4.96	13C5-PFPeA	1130106.21	4.999	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.30	971.36	0.869	8.7	4.96	13C5-PFPeA	1130106.21	4.999	3:3 FTCA	0.051	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.30	467065.75	5.015	2766.1	5.98	13C5-PFHxA	1141246.61	2.499	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.30	178366.58	4.994	1425.5	5.98	13C5-PFHxA	1141246.61	2.499	5:3 FTCA	0.382	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.36	204927.63	5.047	3214.0	5.98	13C5-PFHxA	1141246.61	2.499	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.36	496098.25	5.249	2846.1	5.98	13C5-PFHxA	1141246.61	2.499	7:3 FTCA	2.421	2.338	✓
NFDHA_1	295.0 / 201.1	5.89	39862.11	0.406	1368.7	5.98	13C5-PFHxA	1141246.61	2.499	NFDHA			
NFDHA_2	295.0 / 84.9	5.90	25932.15	0.418	567.6	5.98	13C5-PFHxA	1141246.61	2.499	NFDHA	0.651	0.631	✓
PFEESA_1	314.8 / 134.9	6.30	511828.51	0.386	1641.7	5.98	13C5-PFHxA	1141246.61	2.499	PFEESA			
PFEESA_2	314.8 / 82.9	6.30	24508.29	0.384	300.6	5.98	13C5-PFHxA	1141246.61	2.499	PFEESA	0.048	0.049	✓
PFMPA	229.0 / 84.9	3.77	64479.42	0.379	1203.3	4.96	13C5-PFPeA	1130106.21	4.999		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.34	131814.60	0.397	1594.7	4.96	13C5-PFPeA	1130106.21	4.999		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD33	**Injection Vial**	5
Sample ID	L2	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 11:21:33 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.34	309435.86	2.052	1663.3	2.33	13C4-PFBA	1530659.42	10.008				
PFPeA	263.0 / 219.0	4.98	351984.20	1.048	1687.7	4.97	13C5-PFPeA	1079927.16	5.004		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.00	226023.14	0.517	846.2	5.98	13C5-PFHxA	1081014.20	2.502	PFHxA			
PFHxA_2	313.0 / 118.9	6.00	13569.68	0.545	218.0	5.98	13C5-PFHxA	1081014.20	2.502	PFHxA	0.060	0.057	✓
PFHpA_1	363.1 / 319.0	6.68	239537.62	0.524	597.3	6.67	13C4-PFHpA	1346893.58	2.502	PFHpA			
PFHpA_2	363.1 / 169.0	6.68	2224.02	0.359	16580.2	6.67	13C4-PFHpA	1346893.58	2.502	PFHpA	0.009	0.014	✓
PFOA_1	413.0 / 369.0	7.20	298738.75	0.537	342.8	7.19	13C8-PFOA	1542430.90	2.502	PFOA			
PFOA_2	413.0 / 169.0	7.12	25682.47	0.505	9658.7	7.19	13C8-PFOA	1542430.90	2.502	PFOA	0.086	0.091	✓
PFNA_1	463.0 / 419.0	7.66	150175.36	0.504	253.9	7.65	13C9-PFNA	639476.76	1.251	PFNA			
PFNA_2	463.0 / 219.0	7.66	82118.80	0.558	3582.4	7.65	13C9-PFNA	639476.76	1.251	PFNA	0.547	0.496	✓
PFDA_1	512.9 / 469.0	8.09	254074.74	0.509	670.4	8.08	13C6-PFDA	579079.88	1.251	PFDA			
PFDA_2	512.9 / 219.0	8.09	5911.40	0.411	13393.1	8.08	13C6-PFDA	579079.88	1.251	PFDA	0.023	0.029	✓
PFUnA_1	563.1 / 519.0	8.49	148524.84	0.529	595.1	8.48	13C7-PFUnA	340376.06	1.251	PFUnA			
PFUnA_2	563.1 / 269.1	8.49	6141.11	0.591	4796.3	8.48	13C7-PFUnA	340376.06	1.251	PFUnA	0.041	0.037	✓
PFDoA_1	613.1 / 569.0	8.86	79079.88	0.477	695.8	8.85	13C2-PFDoA	422469.32	1.251	PFDoA			
PFDoA_2	613.1 / 319.0	8.87	21898.95	0.550	1106.1	8.85	13C2-PFDoA	422469.32	1.251	PFDoA	0.277	0.241	✓
PFTrDA_1	663.0 / 619.0	9.23	226882.70	0.560	966.3	9.57	13C2-PFTeDA	239155.85	1.251	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.23	8155.15	0.504	989.4	9.57	13C2-PFTeDA	239155.85	1.251	PFTrDA	0.036	0.040	✓
PFTeDA_1	713.0 / 669.0	9.58	173889.70	0.512	751.1	9.57	13C2-PFTeDA	239155.85	1.251	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.58	4058.53	0.407	222.1	9.57	13C2-PFTeDA	239155.85	1.251	PFTeDA	0.023	0.029	✓
PFBS_1	298.7 / 79.9	5.91	176772.65	0.470	1198.2	5.90	13C3-PFBS	1039927.16	2.332	PFBS			
PFBS_2	298.9 / 98.8	5.91	62900.71	0.491	375.6	5.90	13C3-PFBS	1039927.16	2.332	PFBS	0.356	0.341	✓
PFPeS_1	349.1 / 79.9	6.72	100662.15	0.531	1638.2	7.28	13C3-PFHxS	729185.01	2.372	PFPeS			
PFPeS_2	349.1 / 98.9	6.71	47234.81	0.535	1124.3	7.28	13C3-PFHxS	729185.01	2.372	PFPeS	0.469	0.466	✓
PFHxS_1	398.7 / 79.9	7.29	158319.64	0.453	736.8	7.28	13C3-PFHxS	729185.01	2.372	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	63683.72	0.510	157.2	7.28	13C3-PFHxS	729185.01	2.372	PFHxS	0.402	0.358	✓
PFHpS_1	449.0 / 79.9	7.78	166697.75	0.476	896.0	8.21	13C8-PFOS	564596.71	2.397	PFHpS			
PFHpS_2	449.0 / 98.9	7.78	55006.50	0.505	555.5	8.21	13C8-PFOS	564596.71	2.397	PFHpS	0.330	0.311	✓
PFOS_1	498.9 / 79.9	8.22	187148.02	0.495	419.4	8.21	13C8-PFOS	564596.71	2.397	PFOS			
PFOS_2	498.9 / 98.9	8.22	37514.14	0.457	349.5	8.21	13C8-PFOS	564596.71	2.397	PFOS	0.201	0.218	✓
PFNS_1	548.8 / 79.9	8.63	130568.16	0.493	835.1	8.21	13C8-PFOS	564596.71	2.397	PFNS			
PFNS_2	548.8 / 98.9	8.63	23198.37	0.475	1350.1	8.21	13C8-PFOS	564596.71	2.397	PFNS	0.178	0.185	✓
PFDS_1	599.0 / 79.9	9.02	153741.21	0.485	1075.4	8.21	13C8-PFOS	564596.71	2.397	PFDS			
PFDS_2	599.0 / 98.9	9.01	47513.73	0.520	1052.4	8.21	13C8-PFOS	564596.71	2.397	PFDS	0.309	0.289	✓
PFDoS_1	699.1 / 79.9	9.73	108718.12	0.507	838.4	8.21	13C8-PFOS	564596.71	2.397	PFDoS			
PFDoS_2	699.1 / 98.9	9.73	36629.66	0.527	828.6	8.21	13C8-PFOS	564596.71	2.397	PFDoS	0.337	0.325	✓
4:2FTS_1	327.1 / 307.0	5.78	42244.83	1.799	5997.5	5.76	13C2-4:2FTS	281732.64	4.694	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.77	111127.37	1.871	1280.0	5.76	13C2-4:2FTS	281732.64	4.694	4:2FTS	2.631	2.541	✓
6:2FTS_1	427.1 / 407.0	7.02	156869.54	2.148	21277.3	7.01	13C2-6:2FTS	112839.18	4.759	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.02	48869.99	1.978	555.7	7.01	13C2-6:2FTS	112839.18	4.759	6:2FTS	0.312	0.339	✓
8:2FTS_1	527.1 / 507.0	7.91	178787.51	2.013	14296531.9	7.89	13C2-8:2FTS	34772.81	4.804	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.90	16806.08	2.225	350.5	7.89	13C2-8:2FTS	34772.81	4.804	8:2FTS	0.094	0.086	✓
PFOSA_1	498.1 / 77.9	8.80	130718.45	0.521	5757.8	8.80	13C8-PFOSA	521253.99	2.502	PFOSA			
PFOSA_2	498.1 / 478.0	8.78	921.32	0.539	729.4	8.80	13C8-PFOSA	521253.99	2.502	PFOSA	0.007	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.30	7943.89	0.534	266.3	10.29	D3-MeFOSA	190316.28	2.502	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.25	7366.90	0.530	193.8	10.29	D3-MeFOSA	190316.28	2.502	NMeFOSA	0.927	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.63	7524.17	0.516	193.6	10.62	D5-EtFOSA	184310.47	2.502	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.59	7101.26	0.531	313.8	10.62	D5-EtFOSA	184310.47	2.502	NEtFOSA	0.944	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.11	33957.91	0.517	1980.0	8.10	d3-MeFOSAA	347869.45	5.004	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.03	1651.28	0.313	50.1	8.10	d3-MeFOSAA	347869.45	5.004	NMeFOSAA	0.049	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.27	29456.53	0.559	20063.7	8.26	d5-EtFOSAA	293877.97	5.004	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.27	38570.38	0.502	9872.0	8.26	d5-EtFOSAA	293877.97	5.004	NEtFOSAA	1.309	1.464	✓
NMeFOSE	616.1 / 58.9	10.20	670873.04	5.295	720.7	10.18	D7-MeFOSE	3153581.32	25.020		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.51	793519.72	5.238	2831.6	10.49	D9-EtFOSE	3757966.20	25.020		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.25	661372.78	2.132	5519.1	6.24	13C3-HFPO-DA	2348197.93	10.008	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.25	72773.25	2.132	1702.4	6.24	13C3-HFPO-DA	2348197.93	10.008	HFPO-DA	0.110	0.110	✓
ADONA_1	376.9 / 250.9	6.87	1689788.74	2.151	9897.5	6.24	13C3-HFPO-DA	2348197.93	10.008	ADONA			
ADONA_2	376.9 / 84.8	6.87	14014.87	2.290	284174.1	6.24	13C3-HFPO-DA	2348197.93	10.008	ADONA	0.008	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.51	1157175.30	2.036	3265.5	6.24	13C3-HFPO-DA	2348197.93	10.008	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.50	387482.15	1.943	1841.0	6.24	13C3-HFPO-DA	2348197.93	10.008	9Cl-PF3ONS	0.335	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.26	1002671.48	2.013	3713.5	6.24	13C3-HFPO-DA	2348197.93	10.008	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	331427.96	1.973	2904.8	6.24	13C3-HFPO-DA	2348197.93	10.008	11Cl-PF3OUdS	0.331	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.31	46787.91	2.480	2717.6	4.97	13C5-PFPeA	1079927.16	5.004	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.32	2474.02	2.318	22.3	4.97	13C5-PFPeA	1079927.16	5.004	3:3 FTCA	0.053	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.30	1200492.87	13.625	3881.5	5.98	13C5-PFHxA	1081014.20	2.502	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.30	464996.64	13.762	2497.2	5.98	13C5-PFHxA	1081014.20	2.502	5:3 FTCA	0.387	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.36	482180.73	12.552	6437.2	5.98	13C5-PFHxA	1081014.20	2.502	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.36	1161648.04	12.991	3761.0	5.98	13C5-PFHxA	1081014.20	2.502	7:3 FTCA	2.409	2.338	✓
NFDHA_1	295.0 / 201.1	5.89	101183.84	1.088	2624.5	5.98	13C5-PFHxA	1081014.20	2.502	NFDHA			
NFDHA_2	295.0 / 84.9	5.89	65921.87	1.124	1100.0	5.98	13C5-PFHxA	1081014.20	2.502	NFDHA	0.652	0.631	✓
PFEESA_1	314.8 / 134.9	6.30	1265351.49	1.009	2791.6	5.98	13C5-PFHxA	1081014.20	2.502	PFEESA			
PFEESA_2	314.8 / 82.9	6.30	57273.69	0.948	564.6	5.98	13C5-PFHxA	1081014.20	2.502	PFEESA	0.045	0.049	✓
PFMPA	229.0 / 84.9	3.78	165918.93	1.022	2152.4	4.97	13C5-PFPeA	1079927.16	5.004		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.34	338206.40	1.068	2422.6	4.97	13C5-PFPeA	1079927.16	5.004		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD34	**Injection Vial**	6
Sample ID	L3	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 11:44:26 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.33	748110.24	5.013	2521.3	2.31	13C4-PFBA	1512976.46	9.997				
PFPeA	263.0 / 219.0	4.96	833378.22	2.513	2571.6	4.95	13C5-PFPeA	1065530.11	4.999		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	5.99	545791.32	1.245	1380.5	5.98	13C5-PFHxA	1083812.93	2.499	PFHxA			
PFHxA_2	313.0 / 118.9	5.99	28592.85	1.145	424.8	5.98	13C5-PFHxA	1083812.93	2.499	PFHxA	0.052	0.057	✓
PFHpA_1	363.1 / 319.0	6.69	554497.74	1.251	929.2	6.67	13C4-PFHpA	1304231.44	2.499	PFHpA			
PFHpA_2	363.1 / 169.0	6.69	9607.97	1.599	1525.3	6.67	13C4-PFHpA	1304231.44	2.499	PFHpA	0.017	0.014	✓
PFOA_1	413.0 / 369.0	7.20	700820.25	1.251	517.8	7.19	13C8-PFOA	1551965.73	2.499	PFOA			
PFOA_2	413.0 / 169.0	7.11	63894.13	1.248	960.9	7.19	13C8-PFOA	1551965.73	2.499	PFOA	0.091	0.091	✓
PFNA_1	463.0 / 419.0	7.65	376704.21	1.263	557.1	7.64	13C9-PFNA	639754.32	1.250	PFNA			
PFNA_2	463.0 / 219.0	7.65	190184.72	1.290	3956.2	7.64	13C9-PFNA	639754.32	1.250	PFNA	0.505	0.496	✓
PFDA_1	512.9 / 469.0	8.08	607035.17	1.263	1141.9	8.07	13C6-PFDA	556798.16	1.250	PFDA			
PFDA_2	512.9 / 219.0	8.08	18912.82	1.367	5880.3	8.07	13C6-PFDA	556798.16	1.250	PFDA	0.031	0.029	✓
PFUnA_1	563.1 / 519.0	8.48	356415.12	1.248	1152.6	8.46	13C7-PFUnA	345711.09	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	8.48	12209.83	1.156	846.0	8.46	13C7-PFUnA	345711.09	1.250	PFUnA	0.034	0.037	✓
PFDoA_1	613.1 / 569.0	8.86	213176.45	1.258	1173.6	8.84	13C2-PFDoA	431652.52	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	8.86	55411.48	1.360	1711.6	8.84	13C2-PFDoA	431652.52	1.250	PFDoA	0.260	0.241	✓
PFTrDA_1	663.0 / 619.0	9.23	505453.81	1.264	1298.9	9.58	13C2-PFTeDA	235962.89	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.23	19851.49	1.241	15162.6	9.58	13C2-PFTeDA	235962.89	1.250	PFTrDA	0.039	0.040	✓
PFTeDA_1	713.0 / 669.0	9.59	426853.95	1.273	1476.9	9.58	13C2-PFTeDA	235962.89	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.59	10773.16	1.094	575.5	9.58	13C2-PFTeDA	235962.89	1.250	PFTeDA	0.025	0.029	✓
PFBS_1	298.7 / 79.9	5.91	416090.91	1.193	1965.1	5.90	13C3-PFBS	963446.64	2.329	PFBS			
PFBS_2	298.9 / 98.8	5.91	137573.01	1.158	736.4	5.90	13C3-PFBS	963446.64	2.329	PFBS	0.331	0.341	✓
PFPeS_1	349.1 / 79.9	6.72	238491.16	1.272	3614.4	7.28	13C3-PFHxS	720503.50	2.369	PFPeS			
PFPeS_2	349.1 / 98.9	6.72	107683.03	1.232	1593.2	7.28	13C3-PFHxS	720503.50	2.369	PFPeS	0.452	0.466	✓
PFHxS_1	398.7 / 79.9	7.29	405163.85	1.173	1270.4	7.28	13C3-PFHxS	720503.50	2.369	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	141776.93	1.147	308.6	7.28	13C3-PFHxS	720503.50	2.369	PFHxS	0.350	0.358	✓
PFHpS_1	449.0 / 79.9	7.77	407101.48	1.169	1372.6	8.20	13C8-PFOS	560376.11	2.394	PFHpS			
PFHpS_2	449.0 / 98.9	7.78	115511.65	1.068	1038.0	8.20	13C8-PFOS	560376.11	2.394	PFHpS	0.284	0.311	✓
PFOS_1	498.9 / 79.9	8.21	424758.54	1.131	508.1	8.20	13C8-PFOS	560376.11	2.394	PFOS			
PFOS_2	498.9 / 98.9	8.21	100058.22	1.227	923.9	8.20	13C8-PFOS	560376.11	2.394	PFOS	0.236	0.218	✓
PFNS_1	548.8 / 79.9	8.62	311740.92	1.185	1112.3	8.20	13C8-PFOS	560376.11	2.394	PFNS			
PFNS_2	548.8 / 98.9	8.62	59312.90	1.221	2073.1	8.20	13C8-PFOS	560376.11	2.394	PFNS	0.190	0.185	✓
PFDS_1	599.0 / 79.9	9.01	387687.39	1.230	1494.1	8.20	13C8-PFOS	560376.11	2.394	PFDS			
PFDS_2	599.0 / 98.9	9.01	111823.38	1.230	1765.3	8.20	13C8-PFOS	560376.11	2.394	PFDS	0.288	0.289	✓
PFDoS_1	699.1 / 79.9	9.75	250843.32	1.177	1201.2	8.20	13C8-PFOS	560376.11	2.394	PFDoS			
PFDoS_2	699.1 / 98.9	9.75	81890.00	1.185	1145.9	8.20	13C8-PFOS	560376.11	2.394	PFDoS	0.327	0.325	✓
4:2FTS_1	327.1 / 307.0	5.77	115931.07	5.488	7852.9	5.76	13C2-4:2FTS	253195.63	4.689	4:2FTS			

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PFAS Calibration Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.77	254996.73	4.771	1702.2	5.76	13C2-4:2FTS	253195.63	4.689	4:2FTS	2.200	2.541	✓
6:2FTS_1	427.1 / 407.0	7.02	364598.41	5.069	19501.4	7.01	13C2-6:2FTS	111038.94	4.754	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.02	121370.52	4.986	827.1	7.01	13C2-6:2FTS	111038.94	4.754	6:2FTS	0.333	0.339	✓
8:2FTS_1	527.1 / 507.0	7.90	402651.40	5.129	8660.0	7.89	13C2-8:2FTS	30698.46	4.799	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.90	31196.16	4.673	477.2	7.89	13C2-8:2FTS	30698.46	4.799	8:2FTS	0.078	0.086	✓
PFOSA_1	498.1 / 77.9	8.80	307029.09	1.235	2753.0	8.80	13C8-PFOSA	515302.79	2.499	PFOSA			
PFOSA_2	498.1 / 478.0	8.81	1258.65	0.744	316382.7	8.80	13C8-PFOSA	515302.79	2.499	PFOSA	0.004	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.31	18443.22	1.268	739.9	10.31	D3-MeFOSA	185926.84	2.499	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.28	18254.99	1.343	396.8	10.31	D3-MeFOSA	185926.84	2.499	NMeFOSA	0.990	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.64	18387.30	1.246	433.1	10.63	D5-EtFOSA	186252.97	2.499	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.61	17782.62	1.315	323.3	10.63	D5-EtFOSA	186252.97	2.499	NEtFOSA	0.967	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.10	83435.46	1.241	40786.2	8.09	d3-MeFOSAA	355882.77	4.999	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.10	4140.73	0.766	587222.9	8.09	d3-MeFOSAA	355882.77	4.999	NMeFOSAA	0.050	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.26	65270.67	1.236	30208.3	8.25	d5-EtFOSAA	294296.79	4.999	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.26	94502.79	1.227	5877.8	8.25	d5-EtFOSAA	294296.79	4.999	NEtFOSAA	1.448	1.464	✓
NMeFOSE	616.1 / 58.9	10.21	1588090.94	12.604	1160.1	10.19	D7-MeFOSE	3132479.94	24.993		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.53	1902206.93	12.341	3805.0	10.51	D9-EtFOSE	3819837.13	24.993		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.25	1559346.43	5.066	7148.4	6.24	13C3-HFPO-DA	2326784.59	9.997	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.25	169704.23	5.011	2210.5	6.24	13C3-HFPO-DA	2326784.59	9.997	HFPO-DA	0.109	0.110	✓
ADONA_1	376.9 / 250.9	6.88	3954421.92	5.075	12943.2	6.24	13C3-HFPO-DA	2326784.59	9.997	ADONA			
ADONA_2	376.9 / 84.8	6.88	26808.56	4.416	4399.4	6.24	13C3-HFPO-DA	2326784.59	9.997	ADONA	0.007	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.49	2746139.52	4.871	5096.3	6.24	13C3-HFPO-DA	2326784.59	9.997	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.49	952247.80	4.814	3276.9	6.24	13C3-HFPO-DA	2326784.59	9.997	9Cl-PF3ONS	0.347	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.26	2457919.73	4.974	7945.9	6.24	13C3-HFPO-DA	2326784.59	9.997	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	827154.95	4.964	4447.2	6.24	13C3-HFPO-DA	2326784.59	9.997	11Cl-PF3OUdS	0.337	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.30	113862.03	6.111	4553.8	4.95	13C5-PFPeA	1065530.11	4.999	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.29	6243.05	5.923	28.0	4.95	13C5-PFPeA	1065530.11	4.999	3:3 FTCA	0.055	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.30	2788323.52	31.526	5431.9	5.98	13C5-PFHxA	1083812.93	2.499	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.30	1024117.35	30.196	3446.3	5.98	13C5-PFHxA	1083812.93	2.499	5:3 FTCA	0.367	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.35	1135277.56	29.442	6657.8	5.98	13C5-PFHxA	1083812.93	2.499	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.35	2864377.62	31.911	4899.7	5.98	13C5-PFHxA	1083812.93	2.499	7:3 FTCA	2.523	2.338	✓
NFDHA_1	295.0 / 201.1	5.89	234802.37	2.516	5006.4	5.98	13C5-PFHxA	1083812.93	2.499	NFDHA			
NFDHA_2	295.0 / 84.9	5.89	149012.71	2.531	1714.8	5.98	13C5-PFHxA	1083812.93	2.499	NFDHA	0.635	0.631	✓
PFEESA_1	314.8 / 134.9	6.30	2932028.76	2.330	3695.0	5.98	13C5-PFHxA	1083812.93	2.499	PFEESA			
PFEESA_2	314.8 / 82.9	6.30	139503.03	2.300	946.2	5.98	13C5-PFHxA	1083812.93	2.499	PFEESA	0.048	0.049	✓
PFMPA	229.0 / 84.9	3.76	403536.27	2.516	3103.7	4.95	13C5-PFPeA	1065530.11	4.999		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.33	801856.07	2.563	4535.5	4.95	13C5-PFPeA	1065530.11	4.999		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD35	**Injection Vial**	7
Sample ID	L4	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:07:19 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.35	1532556.26	9.659	3940.3	2.34	13C4-PFBA	1608739.86	9.998				
PFPeA	263.0 / 219.0	4.99	1765276.40	4.885	3840.2	4.97	13C5-PFPeA	1160983.08	4.999		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.00	1111483.44	2.331	1993.6	5.99	13C5-PFHxA	1179003.09	2.500	PFHxA			
PFHxA_2	313.0 / 118.9	6.00	66541.11	2.450	1017.0	5.99	13C5-PFHxA	1179003.09	2.500	PFHxA	0.060	0.057	✓
PFHpA_1	363.1 / 319.0	6.70	1176102.07	2.341	1360.2	6.68	13C4-PFHpA	1478263.18	2.500	PFHpA			
PFHpA_2	363.1 / 169.0	6.70	16519.21	2.427	11141.1	6.68	13C4-PFHpA	1478263.18	2.500	PFHpA	0.014	0.014	✓
PFOA_1	413.0 / 369.0	7.22	1417070.72	2.316	789.1	7.21	13C8-PFOA	1695810.21	2.500	PFOA			
PFOA_2	413.0 / 169.0	7.13	123842.83	2.215	5730.0	7.21	13C8-PFOA	1695810.21	2.500	PFOA	0.087	0.091	✓
PFNA_1	463.0 / 419.0	7.67	768845.45	2.388	805.3	7.66	13C9-PFNA	690525.59	1.250	PFNA			
PFNA_2	463.0 / 219.0	7.67	382875.33	2.405	3034.5	7.66	13C9-PFNA	690525.59	1.250	PFNA	0.498	0.496	✓
PFDA_1	512.9 / 469.0	8.09	1315717.72	2.397	1330.0	8.08	13C6-PFDA	636022.08	1.250	PFDA			
PFDA_2	512.9 / 219.0	8.09	39881.79	2.523	1440837.8	8.08	13C6-PFDA	636022.08	1.250	PFDA	0.030	0.029	✓
PFUnA_1	563.1 / 519.0	8.48	776798.19	2.358	1570.4	8.47	13C7-PFUnA	398884.85	1.250	PFUnA			
PFUnA_2	563.1 / 269.1	8.49	27042.90	2.219	3142.2	8.47	13C7-PFUnA	398884.85	1.250	PFUnA	0.035	0.037	✓
PFDoA_1	613.1 / 569.0	8.87	454455.17	2.523	1686.8	8.86	13C2-PFDoA	458920.80	1.250	PFDoA			
PFDoA_2	613.1 / 319.0	8.87	105262.97	2.431	3319.7	8.86	13C2-PFDoA	458920.80	1.250	PFDoA	0.232	0.241	✓
PFTrDA_1	663.0 / 619.0	9.24	1050091.09	2.450	2095.2	9.58	13C2-PFTeDA	252938.52	1.250	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.24	38653.89	2.255	3819.2	9.58	13C2-PFTeDA	252938.52	1.250	PFTrDA	0.037	0.040	✓
PFTeDA_1	713.0 / 669.0	9.60	925581.79	2.575	2280.5	9.58	13C2-PFTeDA	252938.52	1.250	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.60	26721.59	2.531	1817.1	9.58	13C2-PFTeDA	252938.52	1.250	PFTeDA	0.029	0.029	✓
PFBS_1	298.7 / 79.9	5.92	826933.87	2.014	2517.0	5.91	13C3-PFBS	1134577.07	2.330	PFBS			
PFBS_2	298.9 / 98.8	5.92	290117.37	2.075	905.8	5.91	13C3-PFBS	1134577.07	2.330	PFBS	0.351	0.341	✓
PFPeS_1	349.1 / 79.9	6.73	499726.06	2.277	4262.1	7.29	13C3-PFHxS	843574.91	2.370	PFPeS			
PFPeS_2	349.1 / 98.9	6.73	228029.90	2.230	3346.6	7.29	13C3-PFHxS	843574.91	2.370	PFPeS	0.456	0.466	✓
PFHxS_1	398.7 / 79.9	7.30	841907.16	2.083	1541.4	7.29	13C3-PFHxS	843574.91	2.370	PFHxS			
PFHxS_2	398.7 / 98.9	7.30	292964.93	2.024	631.1	7.29	13C3-PFHxS	843574.91	2.370	PFHxS	0.348	0.358	✓
PFHpS_1	449.0 / 79.9	7.79	890569.51	2.399	2158.0	8.21	13C8-PFOS	597835.58	2.395	PFHpS			
PFHpS_2	449.0 / 98.9	7.79	272742.04	2.364	1769.9	8.21	13C8-PFOS	597835.58	2.395	PFHpS	0.306	0.311	✓
PFOS_1	498.9 / 79.9	8.22	882311.82	2.203	769.4	8.21	13C8-PFOS	597835.58	2.395	PFOS			
PFOS_2	498.9 / 98.9	8.22	193504.90	2.225	1383.5	8.21	13C8-PFOS	597835.58	2.395	PFOS	0.219	0.218	✓
PFNS_1	548.8 / 79.9	8.63	679402.00	2.422	1824.1	8.21	13C8-PFOS	597835.58	2.395	PFNS			
PFNS_2	548.8 / 98.9	8.63	117019.06	2.259	5636.3	8.21	13C8-PFOS	597835.58	2.395	PFNS	0.172	0.185	✓
PFDS_1	599.0 / 79.9	9.02	791683.53	2.356	2223.7	8.21	13C8-PFOS	597835.58	2.395	PFDS			
PFDS_2	599.0 / 98.9	9.02	232205.50	2.396	2458.7	8.21	13C8-PFOS	597835.58	2.395	PFDS	0.293	0.289	✓
PFDoS_1	699.1 / 79.9	9.75	560679.91	2.466	1796.8	8.21	13C8-PFOS	597835.58	2.395	PFDoS			
PFDoS_2	699.1 / 98.9	9.75	186210.51	2.526	1911.1	8.21	13C8-PFOS	597835.58	2.395	PFDoS	0.332	0.325	✓
4:2FTS_1	327.1 / 307.0	5.78	241981.21	9.163	7093.3	5.77	13C2-4:2FTS	316509.69	4.689	4:2FTS			

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PFAS Calibration Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.78	630164.30	9.432	2456.6	5.77	13C2-4:2FTS	316509.69	4.689	4:2FTS	2.604	2.541	✓
6:2FTS_1	427.1 / 407.0	7.04	780492.47	9.380	8782.5	7.03	13C2-6:2FTS	128439.47	4.754	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.04	277196.83	9.845	1416.8	7.03	13C2-6:2FTS	128439.47	4.754	6:2FTS	0.355	0.339	✓
8:2FTS_1	527.1 / 507.0	7.91	1000879.61	10.306	10587.3	7.90	13C2-8:2FTS	37975.78	4.799	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.91	77708.22	9.410	878.7	7.90	13C2-8:2FTS	37975.78	4.799	8:2FTS	0.078	0.086	✓
PFOSA_1	498.1 / 77.9	8.81	662391.76	2.386	9474.8	8.81	13C8-PFOSA	575931.11	2.500	PFOSA			
PFOSA_2	498.1 / 478.0	8.81	4207.52	2.226	62.1	8.81	13C8-PFOSA	575931.11	2.500	PFOSA	0.006	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.31	39342.26	2.382	758.2	10.31	D3-MeFOSA	211141.76	2.500	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.28	36937.41	2.394	663.3	10.31	D3-MeFOSA	211141.76	2.500	NMeFOSA	0.939	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.63	37837.04	2.345	670.4	10.63	D5-EtFOSA	203771.90	2.500	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.61	33833.73	2.288	321.8	10.63	D5-EtFOSA	203771.90	2.500	NEtFOSA	0.894	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.11	168444.99	2.453	10764.2	8.10	d3-MeFOSAA	363504.63	4.999	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.11	17797.85	3.222	709962.1	8.10	d3-MeFOSAA	363504.63	4.999	NMeFOSAA	0.106	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.26	133863.58	2.412	62167.5	8.25	d5-EtFOSAA	309278.35	4.999	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.26	200803.03	2.481	9721.7	8.25	d5-EtFOSAA	309278.35	4.999	NEtFOSAA	1.500	1.464	✓
NMeFOSE	616.1 / 58.9	10.22	3408662.57	24.807	1594.3	10.20	D7-MeFOSE	3416529.92	24.996		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.52	4087198.93	24.714	7251.5	10.50	D9-EtFOSE	4098896.71	24.996		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.26	3273413.44	9.550	9917.1	6.25	13C3-HFPO-DA	2591393.29	9.998	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.26	339174.00	8.994	3259.3	6.25	13C3-HFPO-DA	2591393.29	9.998	HFPO-DA	0.104	0.110	✓
ADONA_1	376.9 / 250.9	6.89	8256338.89	9.514	13171.5	6.25	13C3-HFPO-DA	2591393.29	9.998	ADONA			
ADONA_2	376.9 / 84.8	6.89	62257.57	9.209	29923.4	6.25	13C3-HFPO-DA	2591393.29	9.998	ADONA	0.008	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.50	5879984.79	9.365	6656.7	6.25	13C3-HFPO-DA	2591393.29	9.998	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.50	2006445.95	9.108	3502.1	6.25	13C3-HFPO-DA	2591393.29	9.998	9Cl-PF3ONS	0.341	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.28	5364770.03	9.749	6530.9	6.25	13C3-HFPO-DA	2591393.29	9.998	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.28	1740056.07	9.378	4836.1	6.25	13C3-HFPO-DA	2591393.29	9.998	11Cl-PF3OUdS	0.324	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.33	239731.62	11.808	4898.8	4.97	13C5-PFPeA	1160983.08	4.999	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.33	15409.24	13.418	103.9	4.97	13C5-PFPeA	1160983.08	4.999	3:3 FTCA	0.064	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.31	5941678.25	61.779	7148.2	5.99	13C5-PFHxA	1179003.09	2.500	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.31	2228795.31	60.434	5185.8	5.99	13C5-PFHxA	1179003.09	2.500	5:3 FTCA	0.375	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.37	2561317.53	61.087	7539.9	5.99	13C5-PFHxA	1179003.09	2.500	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.37	5990335.27	61.373	5318.0	5.99	13C5-PFHxA	1179003.09	2.500	7:3 FTCA	2.339	2.338	✓
NFDHA_1	295.0 / 201.1	5.90	495188.40	4.879	5735.8	5.99	13C5-PFHxA	1179003.09	2.500	NFDHA			
NFDHA_2	295.0 / 84.9	5.90	302774.47	4.729	3123.0	5.99	13C5-PFHxA	1179003.09	2.500	NFDHA	0.611	0.631	✓
PFEESA_1	314.8 / 134.9	6.31	6192436.92	4.526	6768.8	5.99	13C5-PFHxA	1179003.09	2.500	PFEESA			
PFEESA_2	314.8 / 82.9	6.31	294843.24	4.470	1685.3	5.99	13C5-PFHxA	1179003.09	2.500	PFEESA	0.048	0.049	✓
PFMPA	229.0 / 84.9	3.80	850238.81	4.865	4975.7	4.97	13C5-PFPeA	1160983.08	4.999		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.35	1667777.65	4.893	7492.1	4.97	13C5-PFPeA	1160983.08	4.999		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD36	**Injection Vial**	8
Sample ID	L5	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:30:18 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.32	2939893.38	18.768	5369.8	2.31	13C4-PFBA	1596450.26	10.050				
PFPeA	263.0 / 219.0	4.97	3240762.60	9.717	5315.3	4.96	13C5-PFPeA	1077070.32	5.025		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.01	2118521.54	4.761	2639.5	5.99	13C5-PFHxA	1105760.20	2.512	PFHxA			
PFHxA_2	313.0 / 118.9	6.01	121490.38	4.792	1101.8	5.99	13C5-PFHxA	1105760.20	2.512	PFHxA	0.057	0.057	✓
PFHpA_1	363.1 / 319.0	6.70	2305598.98	4.669	1714.7	6.68	13C4-PFHpA	1460239.69	2.512	PFHpA			
PFHpA_2	363.1 / 169.0	6.70	34805.16	5.201	14587.1	6.68	13C4-PFHpA	1460239.69	2.512	PFHpA	0.015	0.014	✓
PFOA_1	413.0 / 369.0	7.21	2814488.35	4.655	979.9	7.20	13C8-PFOA	1683248.64	2.512	PFOA			
PFOA_2	413.0 / 169.0	7.12	250556.91	4.536	2480.9	7.20	13C8-PFOA	1683248.64	2.512	PFOA	0.089	0.091	✓
PFNA_1	463.0 / 419.0	7.65	1483818.98	4.418	1049.4	7.64	13C9-PFNA	723693.40	1.256	PFNA			
PFNA_2	463.0 / 219.0	7.65	716560.60	4.316	2629.8	7.64	13C9-PFNA	723693.40	1.256	PFNA	0.483	0.496	✓
PFDA_1	512.9 / 469.0	8.07	2372728.08	5.128	1962.4	8.05	13C6-PFDA	538672.19	1.256	PFDA			
PFDA_2	512.9 / 219.0	8.07	76444.60	5.738	2492.9	8.05	13C6-PFDA	538672.19	1.256	PFDA	0.032	0.029	✓
PFUnA_1	563.1 / 519.0	8.46	1466867.26	4.418	1919.6	8.45	13C7-PFUnA	403923.85	1.256	PFUnA			
PFUnA_2	563.1 / 269.1	8.46	51874.98	4.223	5003.4	8.45	13C7-PFUnA	403923.85	1.256	PFUnA	0.035	0.037	✓
PFDoA_1	613.1 / 569.0	8.86	857972.07	5.046	2434.6	8.84	13C2-PFDoA	435261.34	1.256	PFDoA			
PFDoA_2	613.1 / 319.0	8.85	207683.06	5.080	3650.3	8.84	13C2-PFDoA	435261.34	1.256	PFDoA	0.242	0.241	✓
PFTrDA_1	663.0 / 619.0	9.23	1980701.35	4.847	2380.8	9.58	13C2-PFTeDA	242294.93	1.256	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.23	79721.56	4.878	1947.5	9.58	13C2-PFTeDA	242294.93	1.256	PFTrDA	0.040	0.040	✓
PFTeDA_1	713.0 / 669.0	9.59	1721298.51	5.023	2950.0	9.58	13C2-PFTeDA	242294.93	1.256	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.58	48772.71	4.845	1285.4	9.58	13C2-PFTeDA	242294.93	1.256	PFTeDA	0.028	0.029	✓
PFBS_1	298.7 / 79.9	5.92	1670701.98	4.359	3764.5	5.91	13C3-PFBS	1064652.11	2.342	PFBS			
PFBS_2	298.9 / 98.8	5.92	543345.02	4.163	1308.1	5.91	13C3-PFBS	1064652.11	2.342	PFBS	0.325	0.341	✓
PFPeS_1	349.1 / 79.9	6.73	965368.85	4.461	6270.2	7.28	13C3-PFHxS	835913.25	2.382	PFPeS			
PFPeS_2	349.1 / 98.9	6.73	435428.60	4.319	3674.1	7.28	13C3-PFHxS	835913.25	2.382	PFPeS	0.451	0.466	✓
PFHxS_1	398.7 / 79.9	7.29	1636077.37	4.105	1999.3	7.28	13C3-PFHxS	835913.25	2.382	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	570790.60	4.000	738.9	7.28	13C3-PFHxS	835913.25	2.382	PFHxS	0.349	0.358	✓
PFHpS_1	449.0 / 79.9	7.77	1666962.57	4.336	2529.4	8.19	13C8-PFOS	622194.32	2.407	PFHpS			
PFHpS_2	449.0 / 98.9	7.77	510330.90	4.272	2474.9	8.19	13C8-PFOS	622194.32	2.407	PFHpS	0.306	0.311	✓
PFOS_1	498.9 / 79.9	8.20	1677795.50	4.046	975.1	8.19	13C8-PFOS	622194.32	2.407	PFOS			
PFOS_2	498.9 / 98.9	8.20	376608.41	4.181	1845.2	8.19	13C8-PFOS	622194.32	2.407	PFOS	0.225	0.218	✓
PFNS_1	548.8 / 79.9	8.61	1267650.97	4.364	2275.3	8.19	13C8-PFOS	622194.32	2.407	PFNS			
PFNS_2	548.8 / 98.9	8.61	234868.28	4.378	3110.5	8.19	13C8-PFOS	622194.32	2.407	PFNS	0.185	0.185	✓
PFDS_1	599.0 / 79.9	9.01	1508187.47	4.334	3100.0	8.19	13C8-PFOS	622194.32	2.407	PFDS			
PFDS_2	599.0 / 98.9	9.01	453370.13	4.517	3118.4	8.19	13C8-PFOS	622194.32	2.407	PFDS	0.301	0.289	✓
PFDoS_1	699.1 / 79.9	9.73	1039037.78	4.413	3149.6	8.19	13C8-PFOS	622194.32	2.407	PFDoS			
PFDoS_2	699.1 / 98.9	9.74	344272.16	4.510	3203.3	8.19	13C8-PFOS	622194.32	2.407	PFDoS	0.331	0.325	✓
4:2FTS_1	327.1 / 307.0	5.78	452062.02	17.730	13590.0	5.77	13C2-4:2FTS	307156.34	4.713	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.78	1070295.88	16.592	3701.9	5.77	13C2-4:2FTS	307156.34	4.713	4:2FTS	2.368	2.541	✓
6:2FTS_1	427.1 / 407.0	7.03	1438407.92	18.884	7742.3	7.02	13C2-6:2FTS	118199.81	4.779	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.03	464994.94	18.039	1651.5	7.02	13C2-6:2FTS	118199.81	4.779	6:2FTS	0.323	0.339	✓
8:2FTS_1	527.1 / 507.0	7.89	1835172.63	19.706	5733.8	7.88	13C2-8:2FTS	36605.13	4.824	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.89	149356.22	18.861	1296.6	7.88	13C2-8:2FTS	36605.13	4.824	8:2FTS	0.081	0.086	✓
PFOSA_1	498.1 / 77.9	8.79	1269405.26	4.799	15287.1	8.79	13C8-PFOSA	551362.58	2.512	PFOSA			
PFOSA_2	498.1 / 478.0	8.79	10509.16	5.835	3347.4	8.79	13C8-PFOSA	551362.58	2.512	PFOSA	0.008	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.30	73699.86	4.732	1175.0	10.30	D3-MeFOSA	200056.77	2.512	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.27	69460.95	4.774	1205.1	10.30	D3-MeFOSA	200056.77	2.512	NMeFOSA	0.943	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.63	70956.21	4.408	935.3	10.62	D5-EtFOSA	204302.99	2.512	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.59	67324.58	4.563	680.6	10.62	D5-EtFOSA	204302.99	2.512	NEtFOSA	0.949	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.09	321837.92	5.370	898192.1	8.07	d3-MeFOSAA	318950.21	5.025	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.08	29520.96	6.122	1218.7	8.07	d3-MeFOSAA	318950.21	5.025	NMeFOSAA	0.092	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.24	245645.60	4.413	6012.3	8.23	d5-EtFOSAA	311840.23	5.025	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.24	384679.30	4.739	81949.2	8.23	d5-EtFOSAA	311840.23	5.025	NEtFOSAA	1.566	1.464	✓
NMeFOSE	616.1 / 58.9	10.20	6320240.87	48.384	1795.0	10.18	D7-MeFOSE	3264574.58	25.124		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.51	7750820.43	48.315	10052.0	10.50	D9-EtFOSE	3996329.62	25.124		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.26	6253546.68	18.771	10983.5	6.25	13C3-HFPO-DA	2531959.05	10.050	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.26	681919.04	18.603	4402.7	6.25	13C3-HFPO-DA	2531959.05	10.050	HFPO-DA	0.109	0.110	✓
ADONA_1	376.9 / 250.9	6.89	15061604.49	17.856	14662.7	6.25	13C3-HFPO-DA	2531959.05	10.050	ADONA			
ADONA_2	376.9 / 84.8	6.89	118710.33	18.066	23987.6	6.25	13C3-HFPO-DA	2531959.05	10.050	ADONA	0.008	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.48	11099819.76	18.189	7807.7	6.25	13C3-HFPO-DA	2531959.05	10.050	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.48	3748863.81	17.507	4879.2	6.25	13C3-HFPO-DA	2531959.05	10.050	9Cl-PF3ONS	0.338	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.27	9394581.65	17.563	6365.8	6.25	13C3-HFPO-DA	2531959.05	10.050	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	3163679.91	17.541	6679.0	6.25	13C3-HFPO-DA	2531959.05	10.050	11Cl-PF3OUdS	0.337	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.30	440941.22	23.532	5990.9	4.96	13C5-PFPeA	1077070.32	5.025	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.30	25712.78	24.260	144.7	4.96	13C5-PFPeA	1077070.32	5.025	3:3 FTCA	0.058	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.31	11382280.39	126.794	9638.5	5.99	13C5-PFHxA	1105760.20	2.512	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.31	4218781.65	122.555	6514.4	5.99	13C5-PFHxA	1105760.20	2.512	5:3 FTCA	0.371	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.36	4713681.25	120.442	7044.3	5.99	13C5-PFHxA	1105760.20	2.512	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.36	11543648.08	126.709	7194.6	5.99	13C5-PFHxA	1105760.20	2.512	7:3 FTCA	2.449	2.338	✓
NFDHA_1	295.0 / 201.1	5.90	880488.23	9.295	5084.7	5.99	13C5-PFHxA	1105760.20	2.512	NFDHA			
NFDHA_2	295.0 / 84.9	5.90	568772.68	9.518	3468.1	5.99	13C5-PFHxA	1105760.20	2.512	NFDHA	0.646	0.631	✓
PFEESA_1	314.8 / 134.9	6.32	11259192.34	8.816	7729.2	5.99	13C5-PFHxA	1105760.20	2.512	PFEESA			
PFEESA_2	314.8 / 82.9	6.31	546211.04	8.872	2105.8	5.99	13C5-PFHxA	1105760.20	2.512	PFEESA	0.049	0.049	✓
PFMPA	229.0 / 84.9	3.76	1596927.40	9.901	6156.5	4.96	13C5-PFPeA	1077070.32	5.025		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.34	3024343.67	9.615	8818.6	4.96	13C5-PFPeA	1077070.32	5.025		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD37	**Injection Vial**	9
Sample ID	L6	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:53:13 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.35	6917566.64	49.145	8552.2	2.33	13C4-PFBA	1429574.84	10.015				
PFPeA	263.0 / 219.0	4.98	7947331.22	24.009	7640.6	4.96	13C5-PFPeA	1065435.57	5.008		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.00	5255626.00	12.151	3206.1	5.99	13C5-PFHxA	1071367.41	2.504	PFHxA			
PFHxA_2	313.0 / 118.9	6.00	296266.60	12.024	1631.8	5.99	13C5-PFHxA	1071367.41	2.504	PFHxA	0.056	0.057	✓
PFHpA_1	363.1 / 319.0	6.70	5410295.97	12.283	3062.5	6.68	13C4-PFHpA	1298260.90	2.504	PFHpA			
PFHpA_2	363.1 / 169.0	6.69	76095.31	12.749	9132.9	6.68	13C4-PFHpA	1298260.90	2.504	PFHpA	0.014	0.014	✓
PFOA_1	413.0 / 369.0	7.21	6435739.34	12.205	1627.5	7.20	13C8-PFOA	1463448.17	2.504	PFOA			
PFOA_2	413.0 / 169.0	7.13	581887.32	12.078	5435.9	7.20	13C8-PFOA	1463448.17	2.504	PFOA	0.090	0.091	✓
PFNA_1	463.0 / 419.0	7.66	3419129.73	11.803	1602.9	7.65	13C9-PFNA	622195.92	1.252	PFNA			
PFNA_2	463.0 / 219.0	7.66	1780410.18	12.434	3946.2	7.65	13C9-PFNA	622195.92	1.252	PFNA	0.521	0.496	✓
PFDA_1	512.9 / 469.0	8.09	5739224.86	11.817	2920.2	8.07	13C6-PFDA	563662.68	1.252	PFDA			
PFDA_2	512.9 / 219.0	8.09	172852.08	12.360	11152.6	8.07	13C6-PFDA	563662.68	1.252	PFDA	0.030	0.029	✓
PFUnA_1	563.1 / 519.0	8.48	3366295.48	11.635	3129.9	8.46	13C7-PFUnA	350872.42	1.252	PFUnA			
PFUnA_2	563.1 / 269.1	8.48	121113.61	11.315	4922.8	8.46	13C7-PFUnA	350872.42	1.252	PFUnA	0.036	0.037	✓
PFDoA_1	613.1 / 569.0	8.86	1922364.68	12.024	2984.5	8.85	13C2-PFDoA	407968.38	1.252	PFDoA			
PFDoA_2	613.1 / 319.0	8.86	493818.78	12.847	5127.6	8.85	13C2-PFDoA	407968.38	1.252	PFDoA	0.257	0.241	✓
PFTrDA_1	663.0 / 619.0	9.22	4838564.83	12.111	3438.6	9.56	13C2-PFTeDA	236140.61	1.252	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.22	191033.23	11.956	3178.9	9.56	13C2-PFTeDA	236140.61	1.252	PFTrDA	0.040	0.040	✓
PFTeDA_1	713.0 / 669.0	9.57	3990686.78	11.911	3579.8	9.56	13C2-PFTeDA	236140.61	1.252	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.57	124623.29	12.662	2410.4	9.56	13C2-PFTeDA	236140.61	1.252	PFTeDA	0.031	0.029	✓
PFBS_1	298.7 / 79.9	5.92	3847827.94	10.391	6773.4	5.91	13C3-PFBS	1025120.53	2.334	PFBS			
PFBS_2	298.9 / 98.8	5.92	1326669.39	10.521	2321.8	5.91	13C3-PFBS	1025120.53	2.334	PFBS	0.345	0.341	✓
PFPeS_1	349.1 / 79.9	6.73	2158603.83	11.113	7029.9	7.29	13C3-PFHxS	747793.42	2.374	PFPeS			
PFPeS_2	349.1 / 98.9	6.73	999812.73	11.048	5185.3	7.29	13C3-PFHxS	747793.42	2.374	PFPeS	0.463	0.466	✓
PFHxS_1	398.7 / 79.9	7.30	3954103.65	11.052	3262.9	7.29	13C3-PFHxS	747793.42	2.374	PFHxS			
PFHxS_2	398.7 / 98.9	7.30	1378150.05	10.761	1612.3	7.29	13C3-PFHxS	747793.42	2.374	PFHxS	0.349	0.358	✓
PFHpS_1	449.0 / 79.9	7.78	3825390.38	11.619	3755.9	8.21	13C8-PFOS	531066.08	2.399	PFHpS			
PFHpS_2	449.0 / 98.9	7.78	1267594.69	12.390	2915.4	8.21	13C8-PFOS	531066.08	2.399	PFHpS	0.331	0.311	✓
PFOS_1	498.9 / 79.9	8.22	4093490.00	11.528	1666.1	8.21	13C8-PFOS	531066.08	2.399	PFOS			
PFOS_2	498.9 / 98.9	8.22	915019.17	11.862	2530.0	8.21	13C8-PFOS	531066.08	2.399	PFOS	0.224	0.218	✓
PFNS_1	548.8 / 79.9	8.62	2843285.85	11.430	2662.0	8.21	13C8-PFOS	531066.08	2.399	PFNS			
PFNS_2	548.8 / 98.9	8.62	530359.09	11.543	4081.8	8.21	13C8-PFOS	531066.08	2.399	PFNS	0.187	0.185	✓
PFDS_1	599.0 / 79.9	9.01	3658666.98	12.277	3964.5	8.21	13C8-PFOS	531066.08	2.399	PFDS			
PFDS_2	599.0 / 98.9	9.01	1034800.23	12.039	4525.8	8.21	13C8-PFOS	531066.08	2.399	PFDS	0.283	0.289	✓
PFDoS_1	699.1 / 79.9	9.73	2529049.13	12.543	3395.3	8.21	13C8-PFOS	531066.08	2.399	PFDoS			
PFDoS_2	699.1 / 98.9	9.73	815640.87	12.478	3245.5	8.21	13C8-PFOS	531066.08	2.399	PFDoS	0.323	0.325	✓
4:2FTS_1	327.1 / 307.0	5.78	1067229.17	49.253	31587.3	5.77	13C2-4:2FTS	260150.54	4.697	4:2FTS			

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.78	2740313.47	49.988	5729.2	5.77	13C2-4:2FTS	260150.54	4.697	4:2FTS	2.568	2.541	✓
6:2FTS_1	427.1 / 407.0	7.03	3098824.35	41.851	7646.6	7.02	13C2-6:2FTS	114490.47	4.762	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.04	1121081.49	44.741	2204.0	7.02	13C2-6:2FTS	114490.47	4.762	6:2FTS	0.362	0.339	✓
8:2FTS_1	527.1 / 507.0	7.91	4427251.74	49.470	6395.3	7.89	13C2-8:2FTS	35052.86	4.807	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.91	348062.83	45.739	1934.5	7.89	13C2-8:2FTS	35052.86	4.807	8:2FTS	0.079	0.086	✓
PFOSA_1	498.1 / 77.9	8.81	3053644.04	12.475	36863.4	8.80	13C8-PFOSA	508578.58	2.504	PFOSA			
PFOSA_2	498.1 / 478.0	8.81	23542.38	14.126	82.1	8.80	13C8-PFOSA	508578.58	2.504	PFOSA	0.008	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.31	177486.38	12.158	1788.3	10.31	D3-MeFOSA	186922.55	2.504	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.29	169225.04	12.408	1736.6	10.31	D3-MeFOSA	186922.55	2.504	NMeFOSA	0.954	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.64	178890.85	12.265	1638.4	10.63	D5-EtFOSA	184524.95	2.504	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.60	161305.84	12.066	1439.5	10.63	D5-EtFOSA	184524.95	2.504	NEtFOSA	0.902	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.11	703850.60	11.994	5048.5	8.10	d3-MeFOSAA	311258.45	5.008	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.11	68831.59	14.577	3148498.4	8.10	d3-MeFOSAA	311258.45	5.008	NMeFOSAA	0.098	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.26	585716.98	11.667	13909.6	8.25	d5-EtFOSAA	280294.06	5.008	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.26	889489.21	12.150	3166.1	8.25	d5-EtFOSAA	280294.06	5.008	NEtFOSAA	1.519	1.464	✓
NMeFOSE	616.1 / 58.9	10.21	14850703.73	124.701	2449.1	10.19	D7-MeFOSE	2966068.14	25.038		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.52	17768075.72	126.075	12957.7	10.51	D9-EtFOSE	3498793.81	25.038		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.26	15538552.61	51.762	12137.9	6.25	13C3-HFPO-DA	2273464.86	10.015	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.26	1613212.14	48.843	5701.8	6.25	13C3-HFPO-DA	2273464.86	10.015	HFPO-DA	0.104	0.110	✓
ADONA_1	376.9 / 250.9	6.89	37176319.16	48.914	16750.9	6.25	13C3-HFPO-DA	2273464.86	10.015	ADONA			
ADONA_2	376.9 / 84.8	6.89	282996.36	47.797	2052.4	6.25	13C3-HFPO-DA	2273464.86	10.015	ADONA	0.008	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.49	25352874.64	46.106	7611.5	6.25	13C3-HFPO-DA	2273464.86	10.015	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.49	8480294.37	43.953	5934.3	6.25	13C3-HFPO-DA	2273464.86	10.015	9Cl-PF3ONS	0.335	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.26	22627585.58	46.947	7621.8	6.25	13C3-HFPO-DA	2273464.86	10.015	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	7389974.64	45.474	5564.0	6.25	13C3-HFPO-DA	2273464.86	10.015	11Cl-PF3OUdS	0.327	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.31	1096338.27	58.948	7388.5	4.96	13C5-PFPeA	1065435.57	5.008	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.31	64672.96	61.477	234.1	4.96	13C5-PFPeA	1065435.57	5.008	3:3 FTCA	0.059	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.31	27044888.02	309.949	8812.3	5.99	13C5-PFHxA	1071367.41	2.504	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.31	9904563.07	296.017	6849.7	5.99	13C5-PFHxA	1071367.41	2.504	5:3 FTCA	0.366	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.36	11653271.21	306.340	7074.9	5.99	13C5-PFHxA	1071367.41	2.504	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.36	27067221.41	305.664	7391.3	5.99	13C5-PFHxA	1071367.41	2.504	7:3 FTCA	2.323	2.338	✓
NFDHA_1	295.0 / 201.1	5.90	2135687.24	23.194	8677.9	5.99	13C5-PFHxA	1071367.41	2.504	NFDHA			
NFDHA_2	295.0 / 84.9	5.90	1340393.47	23.077	5487.2	5.99	13C5-PFHxA	1071367.41	2.504	NFDHA	0.628	0.631	✓
PFEESA_1	314.8 / 134.9	6.31	27449304.56	22.112	10641.2	5.99	13C5-PFHxA	1071367.41	2.504	PFEESA			
PFEESA_2	314.8 / 82.9	6.31	1288727.91	21.536	2885.8	5.99	13C5-PFHxA	1071367.41	2.504	PFEESA	0.047	0.049	✓
PFMPA	229.0 / 84.9	3.78	3784702.41	23.642	8170.3	4.96	13C5-PFPeA	1065435.57	5.008		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.35	7240047.41	23.190	10943.8	4.96	13C5-PFPeA	1065435.57	5.008		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD38	**Injection Vial**	10
Sample ID	L7	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 1:16:07 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.33	53044621.47	277.095	22607.9	2.32	13C4-PFBA	1946947.25	10.029				
PFPeA	263.0 / 219.0	4.98	61376447.62	137.897	21666.0	4.97	13C5-PFPeA	1434593.16	5.015		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.01	40712254.79	65.882	9129.5	5.99	13C5-PFHxA	1532500.79	2.507	PFHxA			
PFHxA_2	313.0 / 118.9	6.01	2235047.16	63.488	5059.1	5.99	13C5-PFHxA	1532500.79	2.507	PFHxA	0.055	0.057	✓
PFHpA_1	363.1 / 319.0	6.69	41774433.22	66.553	6373.5	6.68	13C4-PFHpA	1852278.10	2.507	PFHpA			
PFHpA_2	363.1 / 169.0	6.69	617818.30	72.637	220867.5	6.68	13C4-PFHpA	1852278.10	2.507	PFHpA	0.015	0.014	✓
PFOA_1	413.0 / 369.0	7.21	52659687.84	65.072	3942.6	7.19	13C8-PFOA	2248697.38	2.507	PFOA			
PFOA_2	413.0 / 169.0	7.11	4968476.49	67.195	6529.0	7.19	13C8-PFOA	2248697.38	2.507	PFOA	0.094	0.091	✓
PFNA_1	463.0 / 419.0	7.66	28970691.61	64.368	3752.6	7.64	13C9-PFNA	968219.69	1.254	PFNA			
PFNA_2	463.0 / 219.0	7.65	14503361.21	65.191	4863.8	7.64	13C9-PFNA	968219.69	1.254	PFNA	0.501	0.496	✓
PFDA_1	512.9 / 469.0	8.08	42175051.40	61.367	6784.6	8.07	13C6-PFDA	798896.43	1.254	PFDA			
PFDA_2	512.9 / 219.0	8.08	1381365.30	69.806	6560.7	8.07	13C6-PFDA	798896.43	1.254	PFDA	0.033	0.029	✓
PFUnA_1	563.1 / 519.0	8.48	28572690.77	72.477	6997.8	8.46	13C7-PFUnA	478852.69	1.254	PFUnA			
PFUnA_2	563.1 / 269.1	8.48	1080373.86	74.073	5354.8	8.46	13C7-PFUnA	478852.69	1.254	PFUnA	0.038	0.037	✓
PFDoA_1	613.1 / 569.0	8.86	15122953.38	62.103	6285.9	8.85	13C2-PFDoA	622357.90	1.254	PFDoA			
PFDoA_2	613.1 / 319.0	8.87	3735915.70	63.814	7336.7	8.85	13C2-PFDoA	622357.90	1.254	PFDoA	0.247	0.241	✓
PFTrDA_1	663.0 / 619.0	9.23	35580705.22	57.880	5826.5	9.58	13C2-PFTeDA	363917.97	1.254	PFTrDA			
PFTrDA_2	663.0 / 168.9	9.23	1486996.39	60.486	5435.9	9.58	13C2-PFTeDA	363917.97	1.254	PFTrDA	0.042	0.040	✓
PFTeDA_1	713.0 / 669.0	9.59	30605837.06	59.370	6006.1	9.58	13C2-PFTeDA	363917.97	1.254	PFTeDA			
PFTeDA_2	713.0 / 168.9	9.59	995140.34	65.711	5310.9	9.58	13C2-PFTeDA	363917.97	1.254	PFTeDA	0.033	0.029	✓
PFBS_1	298.7 / 79.9	5.93	26258403.26	58.390	7698.6	5.91	13C3-PFBS	1246545.17	2.337	PFBS			
PFBS_2	298.9 / 98.8	5.92	8903662.28	58.143	4251.6	5.91	13C3-PFBS	1246545.17	2.337	PFBS	0.339	0.341	✓
PFPeS_1	349.1 / 79.9	6.73	16163213.72	56.312	18934.8	7.28	13C3-PFHxS	1106430.92	2.377	PFPeS			
PFPeS_2	349.1 / 98.9	6.73	7249943.51	54.214	16773.4	7.28	13C3-PFHxS	1106430.92	2.377	PFPeS	0.449	0.466	✓
PFHxS_1	398.7 / 79.9	7.29	32903275.70	62.237	4553.8	7.28	13C3-PFHxS	1106430.92	2.377	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	10681976.33	56.442	2974.8	7.28	13C3-PFHxS	1106430.92	2.377	PFHxS	0.325	0.358	✓
PFHpS_1	449.0 / 79.9	7.78	30232689.40	66.399	5189.6	8.21	13C8-PFOS	735340.04	2.402	PFHpS			
PFHpS_2	449.0 / 98.9	7.78	9417333.03	66.561	6249.5	8.21	13C8-PFOS	735340.04	2.402	PFHpS	0.312	0.311	✓
PFOS_1	498.9 / 79.9	8.21	31448551.71	64.039	2934.9	8.21	13C8-PFOS	735340.04	2.402	PFOS			
PFOS_2	498.9 / 98.9	8.21	6649964.86	62.335	4950.5	8.21	13C8-PFOS	735340.04	2.402	PFOS	0.212	0.218	✓
PFNS_1	548.8 / 79.9	8.62	21705747.31	63.098	5424.5	8.21	13C8-PFOS	735340.04	2.402	PFNS			
PFNS_2	548.8 / 98.9	8.62	4272874.55	67.248	6102.1	8.21	13C8-PFOS	735340.04	2.402	PFNS	0.197	0.185	✓
PFDS_1	599.0 / 79.9	9.01	25838454.67	62.697	6567.9	8.21	13C8-PFOS	735340.04	2.402	PFDS			
PFDS_2	599.0 / 98.9	9.01	7245988.00	60.957	6436.1	8.21	13C8-PFOS	735340.04	2.402	PFDS	0.280	0.289	✓
PFDoS_1	699.1 / 79.9	9.74	19543886.07	70.090	5798.7	8.21	13C8-PFOS	735340.04	2.402	PFDoS			
PFDoS_2	699.1 / 98.9	9.74	5936550.85	65.673	6479.3	8.21	13C8-PFOS	735340.04	2.402	PFDoS	0.304	0.325	✓
4:2FTS_1	327.1 / 307.0	5.78	8859454.25	231.187	19424.1	5.77	13C2-4:2FTS	460772.72	4.704	4:2FTS			

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PFAS Calibration Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	5.78	22628597.79	233.402	12225.9	5.77	13C2-4:2FTS	460772.72	4.704	4:2FTS	2.554	2.541	✓
6:2FTS_1	427.1 / 407.0	7.03	28677198.28	219.185	11527.3	7.02	13C2-6:2FTS	202601.71	4.769	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.03	9337865.50	210.904	4471.8	7.02	13C2-6:2FTS	202601.71	4.769	6:2FTS	0.326	0.339	✓
8:2FTS_1	527.1 / 507.0	7.90	34378688.65	220.647	7416.5	7.89	13C2-8:2FTS	61115.58	4.814	8:2FTS			
8:2FTS_2	527.1 / 80.8	7.90	2879705.85	217.360	4486.6	7.89	13C2-8:2FTS	61115.58	4.814	8:2FTS	0.084	0.086	✓
PFOSA_1	498.1 / 77.9	8.80	25729326.35	68.646	17183.7	8.80	13C8-PFOSA	779676.81	2.507	PFOSA			
PFOSA_2	498.1 / 478.0	8.80	201306.23	78.885	449564.4	8.80	13C8-PFOSA	779676.81	2.507	PFOSA	0.008	0.007	✓
NMeFOSA_1	511.9 / 219.0	10.30	1489353.31	63.487	4621.2	10.30	D3-MeFOSA	300739.56	2.507	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	10.27	1485282.98	67.772	4851.4	10.30	D3-MeFOSA	300739.56	2.507	NMeFOSA	0.997	0.935	✓
NEtFOSA_1	526.0 / 219.0	10.63	1574925.98	69.618	5074.8	10.62	D5-EtFOSA	286536.29	2.507	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	10.59	1490846.83	71.901	4095.0	10.62	D5-EtFOSA	286536.29	2.507	NEtFOSA	0.947	0.917	✓
NMeFOSAA_1	570.1 / 419.0	8.10	5282860.05	66.757	6207.6	8.10	d3-MeFOSAA	420325.84	5.015	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	8.10	516287.34	81.081	18703.9	8.10	d3-MeFOSAA	420325.84	5.015	NMeFOSAA	0.098	0.080	✓
NEtFOSAA_1	584.2 / 419.1	8.26	4594814.63	64.921	5232.8	8.25	d5-EtFOSAA	395705.05	5.015	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	8.26	7129033.12	69.072	5893.7	8.25	d5-EtFOSAA	395705.05	5.015	NEtFOSAA	1.552	1.464	✓
NMeFOSE	616.1 / 58.9	10.20	113374656.51	649.699	3632.5	10.19	D7-MeFOSE	4352263.12	25.073		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	10.51	131093769.36	646.096	10877.5	10.50	D9-EtFOSE	5044259.72	25.073		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	6.25	100988694.72	250.499	12456.3	6.24	13C3-HFPO-DA	3057493.60	10.029	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	6.25	11501154.51	259.290	13412.1	6.24	13C3-HFPO-DA	3057493.60	10.029	HFPO-DA	0.114	0.110	✓
ADONA_1	376.9 / 250.9	6.89	188027340.43	184.212	12410.5	6.24	13C3-HFPO-DA	3057493.60	10.029	ADONA			
ADONA_2	376.9 / 84.8	6.89	1890372.56	237.738	10002.8	6.24	13C3-HFPO-DA	3057493.60	10.029	ADONA	0.010	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	8.50	150256925.55	203.469	6973.1	6.24	13C3-HFPO-DA	3057493.60	10.029	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	8.49	61918879.88	238.961	7189.2	6.24	13C3-HFPO-DA	3057493.60	10.029	9Cl-PF3ONS	0.412	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	9.27	121427636.21	187.594	6007.3	6.24	13C3-HFPO-DA	3057493.60	10.029	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	49563049.04	227.096	5866.6	6.24	13C3-HFPO-DA	3057493.60	10.029	11Cl-PF3OUdS	0.408	0.340	✓
3:3 FTCA_1	241.0 / 177.0	4.31	9765976.30	390.520	6569.3	4.97	13C5-PFPeA	1434593.16	5.015	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	4.31	547520.99	387.074	881.6	4.97	13C5-PFPeA	1434593.16	5.015	3:3 FTCA	0.056	0.057	✓
5:3 FTCA_1	341.0 / 237.1	6.30	177821917.36	1426.422	7913.9	5.99	13C5-PFHxA	1532500.79	2.507	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	6.30	78335685.05	1638.699	8675.9	5.99	13C5-PFHxA	1532500.79	2.507	5:3 FTCA	0.441	0.384	✓
7:3 FTCA_1	441.0 / 316.9	7.35	96187530.00	1769.831	7749.6	5.99	13C5-PFHxA	1532500.79	2.507	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	7.35	182926119.02	1445.885	5836.0	5.99	13C5-PFHxA	1532500.79	2.507	7:3 FTCA	1.902	2.338	✓
NFDHA_1	295.0 / 201.1	5.90	17563223.49	133.508	10925.9	5.99	13C5-PFHxA	1532500.79	2.507	NFDHA			
NFDHA_2	295.0 / 84.9	5.90	10445105.00	125.866	8656.7	5.99	13C5-PFHxA	1532500.79	2.507	NFDHA	0.595	0.631	✓
PFEESA_1	314.8 / 134.9	6.31	149466232.10	84.276	31734.6	5.99	13C5-PFHxA	1532500.79	2.507	PFEESA			
PFEESA_2	314.8 / 82.9	6.31	8371012.05	97.911	5877.8	5.99	13C5-PFHxA	1532500.79	2.507	PFEESA	0.056	0.049	✓
PFMPA	229.0 / 84.9	3.77	30280573.07	140.676	6963.9	4.97	13C5-PFPeA	1434593.16	5.015		N/A	N/A	✓
PFMBA	279.0 / 85.1	5.35	55380757.51	131.922	26969.6	4.97	13C5-PFPeA	1434593.16	5.015		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD32	**Injection Vial**	4
Sample ID	L1	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 10:58:39 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.31	1616108.85	10.087	15540.9	2.32	13C3-PFBA	827325.14	4.999				
13C5-PFPeA	268.3 / 223.0	4.96	1130106.21	4.961	6540.5	5.99	13C2-PFHxA	897628.50	2.499		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.98	1141246.61	2.456	8008.9	5.99	13C2-PFHxA	897628.50	2.499		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.67	1378277.65	2.401	8338.8	5.99	13C2-PFHxA	897628.50	2.499		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.20	1654082.19	2.473	12312.3	7.20	13C4-PFOA	1577428.37	2.499		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.65	661105.28	1.160	6439.8	7.65	13C5-PFNA	819835.66	1.250		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.07	616271.59	1.320	4128.8	8.07	13C2-PFDA	505131.80	1.250		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.46	369990.91	1.261	2749.3	8.07	13C2-PFDA	505131.80	1.250		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.84	441276.53	1.261	5753.8	8.07	13C2-PFDA	505131.80	1.250		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.57	265134.01	1.332	3727.6	8.07	13C2-PFDA	505131.80	1.250		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.90	1072761.89	2.465	1431.0	7.29	18O2-PFHxS	199992.56	2.369		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.28	769505.23	2.376	2645.9	7.29	18O2-PFHxS	199992.56	2.369		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.20	610436.91	2.514	1999.4	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.76	289590.49	4.720	1754.0	7.29	18O2-PFHxS	199992.56	2.369		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.02	114482.89	4.557	951.3	7.29	18O2-PFHxS	199992.56	2.369		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.89	39355.43	5.174	612.7	7.29	18O2-PFHxS	199992.56	2.369		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.80	577480.34	2.616	1513.6	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.29	209600.82	2.584	2817.4	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.60	200752.76	2.528	1655.4	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.09	382173.29	5.544	7199.1	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.25	307965.98	5.119	4622.6	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.17	3391870.70	26.086	1680.6	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.48	4028020.74	25.929	12643.7	8.21	13C4-PFOS	738219.19	2.394		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.24	2466695.41	9.851	11491.8	5.99	13C2-PFHxA	897628.50	2.499		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD33	**Injection Vial**	5
Sample ID	L2	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 11:21:33 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.33	1530659.41	9.699	14544.3	2.33	13C3-PFBA	815708.83	5.004				
13C5-PFPeA	268.3 / 223.0	4.97	1079927.16	5.068	9161.7	5.98	13C2-PFHxA	840612.19	2.502		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.98	1081014.20	2.488	9188.2	5.98	13C2-PFHxA	840612.19	2.502		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.67	1346893.58	2.508	11038.1	5.98	13C2-PFHxA	840612.19	2.502		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.19	1542430.90	2.381	8571.8	7.19	13C4-PFOA	1529748.65	2.502		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.65	639476.75	1.166	6286337.2	7.65	13C5-PFNA	789489.15	1.251		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.08	579079.88	1.248	4560.8	8.08	13C2-PFDA	502391.72	1.251		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.48	340376.06	1.168	3572.2	8.08	13C2-PFDA	502391.72	1.251		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.85	422469.32	1.215	4952.5	8.08	13C2-PFDA	502391.72	1.251		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.57	239155.85	1.209	6068.5	8.08	13C2-PFDA	502391.72	1.251		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.90	1039927.16	2.258	1549.0	7.28	18O2-PFHxS	211887.84	2.372		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.28	729185.01	2.128	2233.3	7.28	18O2-PFHxS	211887.84	2.372		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.21	564596.71	2.276	1869.0	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.76	281732.64	4.339	1678.4	7.28	18O2-PFHxS	211887.84	2.372		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.01	112839.18	4.245	827.5	7.28	18O2-PFHxS	211887.84	2.372		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.89	34772.81	4.320	484.5	7.28	18O2-PFHxS	211887.84	2.372		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.80	521253.99	2.312	1137.1	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.29	190316.28	2.297	3202.5	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.62	184310.47	2.272	1522.0	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.10	347869.45	4.940	7742.5	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.26	293151.26	4.770	104511.6	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.18	3153581.32	23.742	1980.7	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.49	3757966.20	23.680	9999.3	8.21	13C4-PFOS	755060.60	2.397		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.24	2348197.93	10.026	11028.2	5.98	13C2-PFHxA	840612.19	2.502		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD34	**Injection Vial**	6
Sample ID	L3	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/25/2024 11:44:26 PM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.31	1512976.46	9.923	13275.7	2.32	13C3-PFBA	787342.46	4.999				
13C5-PFPeA	268.3 / 223.0	4.95	1065530.11	5.195	9099.4	5.98	13C2-PFHxA	808194.81	2.499		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.98	1083812.93	2.591	8332.4	5.98	13C2-PFHxA	808194.81	2.499		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.67	1304231.44	2.523	9432.6	5.98	13C2-PFHxA	808194.81	2.499		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.19	1551965.72	2.533	8052.1	7.19	13C4-PFOA	1445407.05	2.499		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.64	639754.32	1.165	3133611.3	7.64	13C5-PFNA	789606.78	1.250		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.07	556798.16	1.289	6603.7	8.07	13C2-PFDA	467402.60	1.250		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.46	345711.09	1.274	3584.4	8.07	13C2-PFDA	467402.60	1.250		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.84	431652.52	1.333	4865.3	8.07	13C2-PFDA	467402.60	1.250		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.58	235962.89	1.281	3638.2	8.07	13C2-PFDA	467402.60	1.250		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.90	963446.64	2.238	1430.1	7.28	18O2-PFHxS	197874.48	2.369		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.28	720503.50	2.249	2292.4	7.28	18O2-PFHxS	197874.48	2.369		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.20	560376.11	2.499	1700.1	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.76	253195.63	4.171	1541.7	7.28	18O2-PFHxS	197874.48	2.369		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.01	111038.94	4.467	967.2	7.28	18O2-PFHxS	197874.48	2.369		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.89	30698.45	4.079	629.9	7.28	18O2-PFHxS	197874.48	2.369		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.80	515302.79	2.529	5041630.2	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.31	185926.84	2.483	3308.2	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.63	186252.97	2.540	1400.6	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.09	355882.77	5.591	4739.5	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.25	292962.57	5.274	3776.9	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.19	3132479.94	26.091	1395.1	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.51	3819837.13	26.630	7735.2	8.21	13C4-PFOS	681642.53	2.394		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.24	2326784.59	10.321	9881.0	5.98	13C2-PFHxA	808194.81	2.499		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD35	**Injection Vial**	7
Sample ID	L4	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:07:19 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.34	1608739.86	10.089	15916.3	2.34	13C3-PFBA	823335.25	4.999				
13C5-PFPeA	268.3 / 223.0	4.97	1160983.08	5.214	9193.1	5.99	13C2-PFHxA	877767.43	2.500		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.99	1179003.09	2.596	7760.0	5.99	13C2-PFHxA	877767.43	2.500		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.68	1478263.18	2.634	11147.5	5.99	13C2-PFHxA	877767.43	2.500		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.21	1695810.21	2.573	7391.6	7.21	13C4-PFOA	1554909.03	2.500		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.66	690525.59	1.226	9705.1	7.66	13C5-PFNA	809841.08	1.250		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.08	636022.08	1.306	4093.0	8.08	13C2-PFDA	526911.09	1.250		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.47	398884.85	1.304	3818.4	8.08	13C2-PFDA	526911.09	1.250		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.86	458920.80	1.258	5378.5	8.08	13C2-PFDA	526911.09	1.250		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.58	252938.52	1.218	4004.2	8.08	13C2-PFDA	526911.09	1.250		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.91	1134577.07	2.537	1674.1	7.30	18O2-PFHxS	205640.36	2.370		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.29	843574.91	2.534	2138.7	7.30	18O2-PFHxS	205640.36	2.370		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.21	597835.58	2.193	1769.4	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.77	316509.69	5.019	1890.7	7.30	18O2-PFHxS	205640.36	2.370		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.03	128439.47	4.974	773.2	7.30	18O2-PFHxS	205640.36	2.370		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.90	37975.78	4.857	456.8	7.30	18O2-PFHxS	205640.36	2.370		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.81	575931.11	2.324	125591545.3	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.31	211141.76	2.318	3171.5	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.63	203771.90	2.285	1186.8	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.10	363504.63	4.696	8747.5	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.25	308402.73	4.565	6896.8	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.20	3416529.92	23.399	1400.0	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.50	4098896.70	23.496	7546.6	8.21	13C4-PFOS	829325.97	2.395		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.25	2591393.29	10.588	9949.6	5.99	13C2-PFHxA	877767.43	2.500		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD36	**Injection Vial**	8
Sample ID	L5	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:30:18 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.31	1596450.26	10.185	14100.9	2.32	13C3-PFBA	813571.28	5.025				
13C5-PFPeA	268.3 / 223.0	4.96	1077070.32	4.847	6057.7	5.99	13C2-PFHxA	880226.33	2.512		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.99	1105760.20	2.440	9363.9	5.99	13C2-PFHxA	880226.33	2.512		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.68	1460239.69	2.607	9932.4	5.99	13C2-PFHxA	880226.33	2.512		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.20	1683248.63	2.747	12435.1	7.20	13C4-PFOA	1452656.80	2.512		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.64	723693.40	1.438	7255.7	7.64	13C5-PFNA	727388.89	1.256		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.05	538672.19	1.144	5368.2	8.05	13C2-PFDA	511695.34	1.256		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.45	403923.85	1.366	3610.0	8.05	13C2-PFDA	511695.34	1.256		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.84	435261.34	1.234	5985.6	8.05	13C2-PFDA	511695.34	1.256		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.58	242294.93	1.207	4072.2	8.05	13C2-PFDA	511695.34	1.256		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.91	1064652.11	2.280	1696.4	7.29	18O2-PFHxS	215750.26	2.382		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.28	835913.25	2.406	2170.6	7.29	18O2-PFHxS	215750.26	2.382		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.19	622194.32	2.685	1913.9	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.77	307156.34	4.666	2871.3	7.29	18O2-PFHxS	215750.26	2.382		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.02	118199.81	4.385	982.4	7.29	18O2-PFHxS	215750.26	2.382		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.88	36605.13	4.485	448.6	7.29	18O2-PFHxS	215750.26	2.382		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.79	551362.58	2.617	495610.6	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.30	200056.77	2.584	3478.5	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.62	204302.99	2.695	1606.4	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.07	318950.20	4.848	2939.0	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.23	311119.83	5.418	3279.8	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.18	3264574.58	26.305	1873.4	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.50	3996329.62	26.952	13760.1	8.19	13C4-PFOS	708441.10	2.407		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.25	2531959.05	10.365	13531.5	5.99	13C2-PFHxA	880226.33	2.512		N/A	N/A	✓

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PFAS Calibration Quant Report

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Sample Name	MD37	**Injection Vial**	9
Sample ID	L6	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 12:53:13 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.33	1429574.84	10.295	15112.1	2.34	13C3-PFBA	718314.84	5.008				
13C5-PFPeA	268.3 / 223.0	4.96	1065435.57	5.285	8234.7	5.99	13C2-PFHxA	795968.44	2.504		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.99	1071367.41	2.606	5790.4	5.99	13C2-PFHxA	795968.44	2.504		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.68	1298260.90	2.555	8465.3	5.99	13C2-PFHxA	795968.44	2.504		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.20	1463448.17	2.349	326868.2	7.20	13C4-PFOA	1472590.62	2.504		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.65	622195.92	1.281	5448.6	7.65	13C5-PFNA	699729.37	1.252		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.07	563662.68	1.267	4093.0	8.08	13C2-PFDA	482081.15	1.252		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.46	350872.41	1.255	3906.7	8.08	13C2-PFDA	482081.15	1.252		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.85	407968.38	1.224	4310.1	8.08	13C2-PFDA	482081.15	1.252		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.56	236140.61	1.245	2611.5	8.08	13C2-PFDA	482081.15	1.252		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.91	1025120.53	2.403	1885.1	7.29	18O2-PFHxS	196434.56	2.374		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.29	747793.42	2.356	2303.1	7.29	18O2-PFHxS	196434.56	2.374		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.21	531066.07	2.353	1420.1	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.77	260150.54	4.326	1559.4	7.29	18O2-PFHxS	196434.56	2.374		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.02	114490.47	4.650	939.7	7.29	18O2-PFHxS	196434.56	2.374		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.89	35052.86	4.701	551.8	7.29	18O2-PFHxS	196434.56	2.374		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.80	508578.58	2.479	475289.7	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.31	186922.55	2.479	3070.8	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.63	184524.95	2.500	1358.4	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.10	311258.45	4.858	7300.3	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.25	279025.14	4.990	13331.6	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.19	2966068.14	24.542	1879.9	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.51	3498793.81	24.230	9356.9	8.21	13C4-PFOS	687613.41	2.399		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.25	2273464.86	10.260	10926.6	5.99	13C2-PFHxA	795968.44	2.504		N/A	N/A	✓

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PFAS Calibration Quant Report

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Printed: 29/03/2024 9:19:49 AM

Sample Name	MD38	**Injection Vial**	10
Sample ID	L7	**Injection Volume**	3.00
Sample Type	Standard	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 1:16:07 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/mL)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng/mL)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	216.8 / 171.9	2.32	1946947.25	9.817	16911.0	2.32	13C3-PFBA	1027333.73	5.015				
13C5-PFPeA	268.3 / 223.0	4.97	1434593.16	4.478	12038.4	5.99	13C2-PFHxA	1266457.20	2.507		N/A	N/A	✓
13C5-PFHxA	318.0 / 273.0	5.99	1532500.79	2.345	9208.9	5.99	13C2-PFHxA	1266457.20	2.507		N/A	N/A	✓
13C4-PFHpA	367.1 / 322.0	6.68	1852278.10	2.294	94880.0	5.99	13C2-PFHxA	1266457.20	2.507		N/A	N/A	✓
13C8-PFOA	421.1 / 376.0	7.19	2248697.38	2.467	9110.4	7.20	13C4-PFOA	2156620.77	2.507		N/A	N/A	✓
13C9-PFNA	472.1 / 427.0	7.64	968219.69	1.329	8586.8	7.64	13C5-PFNA	1051234.03	1.254		N/A	N/A	✓
13C6-PFDA	519.1 / 474.1	8.07	798896.43	1.190	7907.8	8.07	13C2-PFDA	728728.87	1.254		N/A	N/A	✓
13C7-PFUnA	570.0 / 525.1	8.46	478852.69	1.135	3544.9	8.07	13C2-PFDA	728728.87	1.254		N/A	N/A	✓
13C2-PFDoA	615.1 / 570.0	8.85	622357.90	1.237	5166.6	8.07	13C2-PFDA	728728.87	1.254		N/A	N/A	✓
13C2-PFTeDA	715.2 / 670.0	9.58	363917.97	1.271	4828.9	8.07	13C2-PFDA	728728.87	1.254		N/A	N/A	✓
13C3-PFBS	302.1 / 79.9	5.91	1246545.17	2.150	1918.7	7.28	18O2-PFHxS	267299.98	2.377		N/A	N/A	✓
13C3-PFHxS	402.1 / 79.9	7.28	1106430.92	2.565	3399.4	7.28	18O2-PFHxS	267299.98	2.377		N/A	N/A	✓
13C8-PFOS	507.1 / 79.9	8.21	735340.04	2.269	1309.6	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
13C2-4:2FTS	329.1 / 80.9	5.77	460772.72	5.637	2695.9	7.28	18O2-PFHxS	267299.98	2.377		N/A	N/A	✓
13C2-6:2FTS	429.1 / 80.9	7.02	202601.71	6.054	1065.8	7.28	18O2-PFHxS	267299.98	2.377		N/A	N/A	✓
13C2-8:2FTS	529.1 / 80.9	7.89	61115.58	6.031	686.1	7.28	18O2-PFHxS	267299.98	2.377		N/A	N/A	✓
13C8-PFOSA	506.1 / 77.8	8.80	779676.81	2.646	38752.0	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
D3-MeFOSA	515.0 / 219.0	10.30	300739.56	2.778	3281.3	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
D5-EtFOSA	531.1 / 219.0	10.62	286536.29	2.703	1890.8	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
d3-MeFOSAA	573.2 / 419.0	8.10	420325.84	4.568	5083.0	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
d5-EtFOSAA	589.2 / 419.0	8.25	394724.54	4.915	5496.4	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
D7-MeFOSE	623.2 / 58.9	10.19	4352263.12	25.076	2357.3	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
D9-EtFOSE	639.2 / 58.9	10.50	5044259.72	24.325	9881.7	8.21	13C4-PFOS	988697.14	2.402		N/A	N/A	✓
13C3-HFPO-DA	286.9 / 168.9	6.24	3057493.60	8.682	12348.2	5.99	13C2-PFHxA	1266457.20	2.507		N/A	N/A	✓

Sample Name	MD40 ICC	**Injection Vial**	12
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:01:52 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.33	4.488	5.000	89.75
PFPeA	263.0 / 219.0	4.98	4.376	5.050	86.66
PFHxA_1	313.0 / 269.0	6.01	4.781	5.000	95.62
PFHxA_2	313.0 / 118.9	6.01	4.457	5.000	89.14
PFHpA_1	363.1 / 319.0	6.70	4.601	5.000	92.02
PFHpA_2	363.1 / 169.0	6.70	4.914	5.000	98.29
PFOA_1	413.0 / 369.0	7.22	5.329	5.000	106.58
PFOA_2	413.0 / 169.0	7.22	2.951	5.000	59.02
PFNA_1	463.0 / 419.0	7.67	4.916	5.000	98.31
PFNA_2	463.0 / 219.0	7.67	3.829	5.000	76.58
PFDA_1	512.9 / 469.0	8.09	4.531	5.000	90.62
PFDA_2	512.9 / 219.0	8.09	4.606	5.000	92.13
PFUnA_1	563.1 / 519.0	8.49	4.177	5.000	83.54
PFUnA_2	563.1 / 269.1	8.48	3.894	5.000	77.87
PFDoA_1	613.1 / 569.0	8.87	4.164	5.000	83.29
PFDoA_2	613.1 / 319.0	8.87	4.321	5.000	86.43
PFTrDA_1	663.0 / 619.0	9.24	4.167	5.000	83.34
PFTrDA_2	663.0 / 168.9	9.24	4.206	5.000	84.13
PFTeDA_1	713.0 / 669.0	9.59	4.835	5.000	96.70
PFTeDA_2	713.0 / 168.9	9.58	5.245	5.000	104.90
PFBS_1	298.7 / 79.9	5.93	4.511	5.000	90.21
PFBS_2	298.9 / 98.8	5.92	4.597	5.000	91.94
PFPeS_1	349.1 / 79.9	6.73	4.903	5.000	98.05
PFPeS_2	349.1 / 98.9	6.73	4.704	5.000	94.08
PFHxS_1	398.7 / 79.9	7.30	4.426	5.000	88.53
PFHxS_2	398.7 / 98.9	7.30	4.182	5.000	83.63
PFHpS_1	449.0 / 79.9	7.79	4.676	5.000	93.52
PFHpS_2	449.0 / 98.9	7.79	4.333	5.000	86.67
PFOS_1	498.9 / 79.9	8.22	4.256	5.000	85.12
PFOS_2	498.9 / 98.9	8.22	4.174	5.000	83.48
PFNS_1	548.8 / 79.9	8.63	4.526	5.050	89.62
PFNS_2	548.8 / 98.9	8.63	4.899	5.050	97.01
PFDS_1	599.0 / 79.9	9.01	5.030	5.050	99.61
PFDS_2	599.0 / 98.9	9.01	5.330	5.050	105.55
PFDoS_1	699.1 / 79.9	9.73	5.152	4.850	106.22
PFDoS_2	699.1 / 98.9	9.73	5.181	4.850	106.83
4:2FTS_1	327.1 / 307.0	5.79	4.694	5.000	93.88
4:2FTS_2	327.1 / 80.9	5.79	4.781	5.000	95.63
6:2FTS_1	427.1 / 407.0	7.04	5.070	5.000	101.39
6:2FTS_2	427.1 / 80.9	7.04	5.366	5.000	107.33
8:2FTS_1	527.1 / 507.0	7.91	4.154	5.050	82.26
8:2FTS_2	527.1 / 80.8	7.91	3.510	5.050	69.51
PFOSA_1	498.1 / 77.9	8.81	4.761	5.000	95.21
PFOSA_2	498.1 / 478.0	8.81	5.252	5.000	105.05
NMeFOSA_1	511.9 / 219.0	10.31	4.761	5.000	95.22
NMeFOSA_2	511.9 / 169.0	10.31	3.727	5.000	74.54
NEtFOSA_1	526.0 / 219.0	10.65	4.836	5.000	96.72
NEtFOSA_2	526.0 / 169.0	10.65	3.813	5.000	76.26
NMeFOSAA_1	570.1 / 419.0	8.11	4.411	5.000	88.22
NMeFOSAA_2	570.1 / 483.0	8.11	5.533	5.000	110.66
NEtFOSAA_1	584.2 / 419.1	8.27	4.886	5.000	97.71
NEtFOSAA_2	584.2 / 526.0	8.27	4.798	5.000	95.96
NMeFOSE	616.1 / 58.9	10.21	5.287	5.000	105.74
NEtFOSE	630.0 / 58.9	10.52	5.113	5.000	102.27
HFPO-DA_1	284.9 / 168.9	6.26	4.820	5.000	96.40
HFPO-DA_2	284.9 / 184.9	6.26	4.677	5.000	93.53
ADONA_1	376.9 / 250.9	6.90	4.720	5.000	94.39
ADONA_2	376.9 / 84.8	6.89	4.714	5.000	94.27
9Cl-PF3ONS_1	530.8 / 351.0	8.50	4.445	5.000	88.90
9Cl-PF3ONS_2	532.8 / 353.0	8.50	4.514	5.000	90.28
11Cl-PF3OUdS_1	630.9 / 450.9	9.27	4.937	5.000	98.74
11Cl-PF3OUdS_2	632.9 / 452.9	9.27	4.714	5.000	94.27

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
3:3 FTCA_1	241.0 / 177.0	4.31	6.708	6.250	107.33
3:3 FTCA_2	241.0 / 117.0	4.32	9.260	6.250	148.16
5:3 FTCA_1	341.0 / 237.1	6.31	6.825	6.250	109.19
5:3 FTCA_2	341.0 / 217.0	6.31	7.054	6.250	112.86
7:3 FTCA_1	441.0 / 316.9	7.37	6.901	6.250	110.42
7:3 FTCA_2	441.0 / 336.9	7.37	7.204	6.250	115.26
NFDHA_1	295.0 / 201.1	5.91	5.336	5.000	106.72
NFDHA_2	295.0 / 84.9	5.90	5.073	5.000	101.46
PFEESA_1	314.8 / 134.9	6.32	5.052	4.460	113.26
PFEESA_2	314.8 / 82.9	6.32	5.181	4.460	116.17
PFMPA	229.0 / 84.9	3.77	4.833	5.000	96.66
PFMBA	279.0 / 85.1	5.35	4.886	5.000	97.72
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD32 ISC	**Injection Vial**	13
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:24:48 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.35	0.789	0.800	98.69
PFPeA	263.0 / 219.0	4.99	0.367	0.400	91.76
PFHxA_1	313.0 / 269.0	6.01	0.201	0.200	100.26
PFHxA_2	313.0 / 118.9	6.01	0.226	0.200	112.96
PFHpA_1	363.1 / 319.0	6.70	0.207	0.200	103.39
PFHpA_2	363.1 / 169.0	6.69	0.212	0.200	105.80
PFOA_1	413.0 / 369.0	7.22	0.228	0.200	114.21
PFOA_2	413.0 / 169.0	7.09	0.247	0.200	123.43
PFNA_1	463.0 / 419.0	7.67	0.189	0.200	94.45
PFNA_2	463.0 / 219.0	7.66	0.202	0.200	100.77
PFDA_1	512.9 / 469.0	8.10	0.184	0.200	91.92
PFDA_2	512.9 / 219.0	8.10	0.187	0.200	93.48
PFUnA_1	563.1 / 519.0	8.50	0.189	0.200	94.54
PFUnA_2	563.1 / 269.1	8.50	0.149	0.200	74.27
PFDoA_1	613.1 / 569.0	8.89	0.196	0.200	98.23
PFDoA_2	613.1 / 319.0	8.88	0.177	0.200	88.72
PFTrDA_1	663.0 / 619.0	9.25	0.204	0.200	102.10
PFTrDA_2	663.0 / 168.9	9.26	0.221	0.200	110.56
PFTeDA_1	713.0 / 669.0	9.60	0.208	0.200	104.03
PFTeDA_2	713.0 / 168.9	9.60	0.267	0.200	133.66
PFBS_1	298.7 / 79.9	5.93	0.190	0.178	106.82
PFBS_2	298.9 / 98.8	5.92	0.175	0.178	98.34
PFPeS_1	349.1 / 79.9	6.74	0.187	0.188	99.68
PFPeS_2	349.1 / 98.9	6.74	0.235	0.188	125.12
PFHxS_1	398.7 / 79.9	7.30	0.175	0.182	96.16
PFHxS_2	398.7 / 98.9	7.30	0.208	0.182	114.20
PFHpS_1	449.0 / 79.9	7.79	0.197	0.190	103.87
PFHpS_2	449.0 / 98.9	7.79	0.191	0.190	100.33
PFOS_1	498.9 / 79.9	8.23	0.220	0.186	118.51
PFOS_2	498.9 / 98.9	8.23	0.218	0.186	117.15
PFNS_1	548.8 / 79.9	8.64	0.189	0.192	98.53
PFNS_2	548.8 / 98.9	8.64	0.244	0.192	126.98
PFDS_1	599.0 / 79.9	9.03	0.225	0.193	116.71
PFDS_2	599.0 / 98.9	9.03	0.212	0.193	109.62
PFDoS_1	699.1 / 79.9	9.75	0.184	0.194	94.75
PFDoS_2	699.1 / 98.9	9.75	0.198	0.194	102.01
4:2FTS_1	327.1 / 307.0	5.78	0.781	0.749	104.23
4:2FTS_2	327.1 / 80.9	5.79	0.778	0.749	103.85
6:2FTS_1	427.1 / 407.0	7.04	0.850	0.761	111.63
6:2FTS_2	427.1 / 80.9	7.04	0.729	0.761	95.77
8:2FTS_1	527.1 / 507.0	7.92	0.766	0.768	99.75
8:2FTS_2	527.1 / 80.8	7.92	0.761	0.768	99.12
PFOSA_1	498.1 / 77.9	8.81	0.213	0.201	105.85
PFOSA_2	498.1 / 478.0	8.81	0.265	0.201	132.02
NMeFOSA_1	511.9 / 219.0	10.31	0.191	0.200	95.55
NMeFOSA_2	511.9 / 169.0	10.25	0.189	0.200	94.62
NEtFOSA_1	526.0 / 219.0	10.64	0.253	0.200	126.27
NEtFOSA_2	526.0 / 169.0	10.62	0.231	0.200	115.64
NMeFOSAA_1	570.1 / 419.0	8.11	0.220	0.200	109.89
NMeFOSAA_2	570.1 / 483.0	8.11	0.127	0.200	63.30
NEtFOSAA_1	584.2 / 419.1	8.27	0.141	0.200	70.49
NEtFOSAA_2	584.2 / 526.0	8.28	0.178	0.200	89.00
NMeFOSE	616.1 / 58.9	10.22	1.980	2.002	98.91
NEtFOSE	630.0 / 58.9	10.53	1.937	2.006	96.56
HFPO-DA_1	284.9 / 168.9	6.27	0.796	0.800	99.51
HFPO-DA_2	284.9 / 184.9	6.27	0.794	0.800	99.30
ADONA_1	376.9 / 250.9	6.90	0.798	0.756	105.60
ADONA_2	376.9 / 84.8	6.90	0.550	0.756	72.72
9Cl-PF3ONS_1	530.8 / 351.0	8.51	0.720	0.746	96.53
9Cl-PF3ONS_2	532.8 / 353.0	8.51	0.687	0.746	92.07
11Cl-PF3OUdS_1	630.9 / 450.9	9.28	0.787	0.754	104.44

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	9.28	0.761	0.754	100.93
3:3 FTCA_1	241.0 / 177.0	4.32	0.868	1.000	86.79
3:3 FTCA_2	241.0 / 117.0	4.32	1.277	1.000	127.73
5:3 FTCA_1	341.0 / 237.1	6.32	5.086	4.999	101.75
5:3 FTCA_2	341.0 / 217.0	6.32	4.656	4.999	93.13
7:3 FTCA_1	441.0 / 316.9	7.37	4.800	4.999	96.03
7:3 FTCA_2	441.0 / 336.9	7.36	4.920	4.999	98.41
NFDHA_1	295.0 / 201.1	5.91	0.422	0.400	105.42
NFDHA_2	295.0 / 84.9	5.90	0.449	0.400	112.31
PFEESA_1	314.8 / 134.9	6.32	0.378	0.357	105.85
PFEESA_2	314.8 / 82.9	6.32	0.435	0.357	121.88
PFMPA	229.0 / 84.9	3.79	0.352	0.400	88.12
PFMBA	279.0 / 85.1	5.36	0.366	0.400	91.59
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD35 CV	**Injection Vial**	14
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:47:41 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.33	9.675	9.998	96.77
PFPeA	263.0 / 219.0	4.98	4.821	4.999	96.43
PFHxA_1	313.0 / 269.0	6.01	2.523	2.500	100.91
PFHxA_2	313.0 / 118.9	6.01	2.438	2.500	97.51
PFHpA_1	363.1 / 319.0	6.70	2.561	2.500	102.42
PFHpA_2	363.1 / 169.0	6.70	2.224	2.500	88.94
PFOA_1	413.0 / 369.0	7.22	2.484	2.503	99.24
PFOA_2	413.0 / 169.0	7.11	2.579	2.503	103.04
PFNA_1	463.0 / 419.0	7.67	2.503	2.498	100.20
PFNA_2	463.0 / 219.0	7.67	2.554	2.498	102.23
PFDA_1	512.9 / 469.0	8.09	2.429	2.500	97.17
PFDA_2	512.9 / 219.0	8.09	2.671	2.500	106.83
PFUnA_1	563.1 / 519.0	8.48	2.285	2.500	91.41
PFUnA_2	563.1 / 269.1	8.48	2.466	2.500	98.63
PFDoA_1	613.1 / 569.0	8.86	2.347	2.500	93.88
PFDoA_2	613.1 / 319.0	8.86	2.253	2.500	90.14
PFTrDA_1	663.0 / 619.0	9.23	2.503	2.500	100.14
PFTrDA_2	663.0 / 168.9	9.23	2.171	2.500	86.85
PFTeDA_1	713.0 / 669.0	9.58	2.546	2.500	101.84
PFTeDA_2	713.0 / 168.9	9.58	2.698	2.500	107.91
PFBS_1	298.7 / 79.9	5.92	2.061	2.220	92.85
PFBS_2	298.9 / 98.8	5.93	1.996	2.220	89.92
PFPeS_1	349.1 / 79.9	6.73	2.251	2.350	95.79
PFPeS_2	349.1 / 98.9	6.73	2.111	2.350	89.83
PFHxS_1	398.7 / 79.9	7.30	2.188	2.281	95.92
PFHxS_2	398.7 / 98.9	7.30	2.088	2.281	91.54
PFHpS_1	449.0 / 79.9	7.79	2.298	2.380	96.57
PFHpS_2	449.0 / 98.9	7.79	2.330	2.380	97.91
PFOS_1	498.9 / 79.9	8.22	2.159	2.320	93.07
PFOS_2	498.9 / 98.9	8.22	2.163	2.320	93.21
PFNS_1	548.8 / 79.9	8.62	2.230	2.400	92.92
PFNS_2	548.8 / 98.9	8.63	2.290	2.400	95.42
PFDS_1	599.0 / 79.9	9.01	2.460	2.410	102.08
PFDS_2	599.0 / 98.9	9.01	2.428	2.410	100.73
PFDoS_1	699.1 / 79.9	9.73	2.309	2.420	95.43
PFDoS_2	699.1 / 98.9	9.73	2.401	2.420	99.20
4:2FTS_1	327.1 / 307.0	5.79	9.906	9.368	105.74
4:2FTS_2	327.1 / 80.9	5.79	9.730	9.368	103.86
6:2FTS_1	427.1 / 407.0	7.03	8.570	9.508	90.14
6:2FTS_2	427.1 / 80.9	7.03	8.582	9.508	90.26
8:2FTS_1	527.1 / 507.0	7.91	10.477	9.598	109.15
8:2FTS_2	527.1 / 80.8	7.91	9.927	9.598	103.43
PFOSA_1	498.1 / 77.9	8.80	2.573	2.510	102.53
PFOSA_2	498.1 / 478.0	8.80	2.478	2.510	98.72
NMeFOSA_1	511.9 / 219.0	10.29	2.383	2.501	95.30
NMeFOSA_2	511.9 / 169.0	10.24	2.677	2.501	107.05
NEtFOSA_1	526.0 / 219.0	10.61	2.302	2.505	91.88
NEtFOSA_2	526.0 / 169.0	10.59	2.285	2.505	91.21
NMeFOSAA_1	570.1 / 419.0	8.11	2.481	2.500	99.26
NMeFOSAA_2	570.1 / 483.0	8.11	2.903	2.500	116.13
NEtFOSAA_1	584.2 / 419.1	8.26	2.179	2.503	87.05
NEtFOSAA_2	584.2 / 526.0	8.26	2.345	2.503	93.68
NMeFOSE	616.1 / 58.9	10.18	24.587	25.026	98.25
NEtFOSE	630.0 / 58.9	10.50	24.694	25.076	98.48
HFPO-DA_1	284.9 / 168.9	6.27	9.639	9.998	96.41
HFPO-DA_2	284.9 / 184.9	6.26	9.301	9.998	93.02
ADONA_1	376.9 / 250.9	6.89	9.393	9.448	99.42
ADONA_2	376.9 / 84.8	6.89	8.753	9.448	92.65
9Cl-PF3ONS_1	530.8 / 351.0	8.50	8.950	9.328	95.95
9Cl-PF3ONS_2	532.8 / 353.0	8.50	8.367	9.328	89.69
11Cl-PF3OUdS_1	630.9 / 450.9	9.26	9.422	9.428	99.93

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	9.26	8.496	9.428	90.11
3:3 FTCA_1	241.0 / 177.0	4.31	11.248	12.498	90.00
3:3 FTCA_2	241.0 / 117.0	4.30	14.596	12.498	116.78
5:3 FTCA_1	341.0 / 237.1	6.31	63.789	62.489	102.08
5:3 FTCA_2	341.0 / 217.0	6.31	62.784	62.489	100.47
7:3 FTCA_1	441.0 / 316.9	7.37	59.127	62.489	94.62
7:3 FTCA_2	441.0 / 336.9	7.37	60.838	62.489	97.36
NFDHA_1	295.0 / 201.1	5.90	5.144	4.999	102.90
NFDHA_2	295.0 / 84.9	5.90	4.748	4.999	94.98
PFEESA_1	314.8 / 134.9	6.32	4.647	4.459	104.23
PFEESA_2	314.8 / 82.9	6.32	4.699	4.459	105.38
PFMPA	229.0 / 84.9	3.77	4.696	4.999	93.94
PFMBA	279.0 / 85.1	5.35	4.486	4.999	89.74
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD32 ISC	**Injection Vial**	2
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 3:21:02 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.32	0.771	0.800	96.44
PFPeA	263.0 / 219.0	4.98	0.402	0.400	100.49
PFHxA_1	313.0 / 269.0	6.01	0.223	0.200	111.53
PFHxA_2	313.0 / 118.9	6.02	0.203	0.200	101.33
PFHpA_1	363.1 / 319.0	6.70	0.209	0.200	104.42
PFHpA_2	363.1 / 169.0	6.71	0.234	0.200	116.97
PFOA_1	413.0 / 369.0	7.21	0.215	0.200	107.25
PFOA_2	413.0 / 169.0	7.18	0.186	0.200	93.04
PFNA_1	463.0 / 419.0	7.67	0.210	0.200	104.80
PFNA_2	463.0 / 219.0	7.67	0.183	0.200	91.33
PFDA_1	512.9 / 469.0	8.10	0.221	0.200	110.25
PFDA_2	512.9 / 219.0	8.10	0.299	0.200	149.43
PFUnA_1	563.1 / 519.0	8.50	0.167	0.200	83.64
PFUnA_2	563.1 / 269.1	8.51	0.217	0.200	108.56
PFDoA_1	613.1 / 569.0	8.88	0.236	0.200	117.83
PFDoA_2	613.1 / 319.0	8.88	0.190	0.200	94.85
PFTrDA_1	663.0 / 619.0	9.26	0.223	0.200	111.26
PFTrDA_2	663.0 / 168.9	9.25	0.146	0.200	73.13
PFTeDA_1	713.0 / 669.0	9.60	0.213	0.200	106.31
PFTeDA_2	713.0 / 168.9	9.60	0.211	0.200	105.69
PFBS_1	298.7 / 79.9	5.92	0.182	0.178	102.32
PFBS_2	298.9 / 98.8	5.92	0.211	0.178	118.37
PFPeS_1	349.1 / 79.9	6.73	0.174	0.188	92.69
PFPeS_2	349.1 / 98.9	6.73	0.200	0.188	106.49
PFHxS_1	398.7 / 79.9	7.30	0.191	0.182	104.68
PFHxS_2	398.7 / 98.9	7.30	0.207	0.182	113.77
PFHpS_1	449.0 / 79.9	7.78	0.192	0.190	101.06
PFHpS_2	449.0 / 98.9	7.78	0.217	0.190	114.09
PFOS_1	498.9 / 79.9	8.23	0.209	0.186	112.43
PFOS_2	498.9 / 98.9	8.23	0.239	0.186	128.31
PFNS_1	548.8 / 79.9	8.64	0.201	0.192	104.64
PFNS_2	548.8 / 98.9	8.64	0.216	0.192	112.43
PFDS_1	599.0 / 79.9	9.03	0.204	0.193	105.53
PFDS_2	599.0 / 98.9	9.03	0.213	0.193	110.62
PFDoS_1	699.1 / 79.9	9.75	0.206	0.194	106.20
PFDoS_2	699.1 / 98.9	9.75	0.248	0.194	127.94
4:2FTS_1	327.1 / 307.0	5.79	0.830	0.749	110.80
4:2FTS_2	327.1 / 80.9	5.78	0.737	0.749	98.37
6:2FTS_1	427.1 / 407.0	7.03	0.747	0.761	98.13
6:2FTS_2	427.1 / 80.9	7.03	0.782	0.761	102.74
8:2FTS_1	527.1 / 507.0	7.91	0.742	0.768	96.62
8:2FTS_2	527.1 / 80.8	7.91	0.547	0.768	71.21
PFOSA_1	498.1 / 77.9	8.86	0.205	0.201	101.88
PFOSA_2	498.1 / 478.0	8.85	0.409	0.201	203.41
NMeFOSA_1	511.9 / 219.0	10.33	0.191	0.200	95.62
NMeFOSA_2	511.9 / 169.0	10.28	0.239	0.200	119.72
NEtFOSA_1	526.0 / 219.0	10.64	0.187	0.200	93.71
NEtFOSA_2	526.0 / 169.0	10.62	0.202	0.200	101.25
NMeFOSAA_1	570.1 / 419.0	8.11	0.231	0.200	115.58
NMeFOSAA_2	570.1 / 483.0	8.11	0.232	0.200	115.97
NEtFOSAA_1	584.2 / 419.1	8.28	0.218	0.200	108.89
NEtFOSAA_2	584.2 / 526.0	8.28	0.207	0.200	103.25
NMeFOSE	616.1 / 58.9	10.23	2.062	2.002	103.00
NEtFOSE	630.0 / 58.9	10.55	2.213	2.006	110.34
HFPO-DA_1	284.9 / 168.9	6.27	0.806	0.800	100.73
HFPO-DA_2	284.9 / 184.9	6.27	0.856	0.800	107.06
ADONA_1	376.9 / 250.9	6.89	0.743	0.756	98.31
ADONA_2	376.9 / 84.8	6.89	0.590	0.756	77.99
9Cl-PF3ONS_1	530.8 / 351.0	8.51	0.714	0.746	95.68
9Cl-PF3ONS_2	532.8 / 353.0	8.51	0.720	0.746	96.58
11Cl-PF3OUdS_1	630.9 / 450.9	9.29	0.763	0.754	101.24

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	9.29	0.742	0.754	98.43
3:3 FTCA_1	241.0 / 177.0	4.31	0.800	1.000	80.04
3:3 FTCA_2	241.0 / 117.0	4.78	1.884	1.000	188.45
5:3 FTCA_1	341.0 / 237.1	6.32	5.009	4.999	100.20
5:3 FTCA_2	341.0 / 217.0	6.32	4.948	4.999	98.98
7:3 FTCA_1	441.0 / 316.9	7.37	4.884	4.999	97.69
7:3 FTCA_2	441.0 / 336.9	7.37	4.928	4.999	98.57
NFDHA_1	295.0 / 201.1	5.91	0.401	0.400	100.30
NFDHA_2	295.0 / 84.9	5.90	0.396	0.400	99.07
PFEESA_1	314.8 / 134.9	6.32	0.386	0.357	108.06
PFEESA_2	314.8 / 82.9	6.32	0.362	0.357	101.46
PFMPA	229.0 / 84.9	3.77	0.384	0.400	96.05
PFMBA	279.0 / 85.1	5.35	0.383	0.400	95.63
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD36 CV	**Injection Vial**	3
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 3:43:54 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.33	18.754	20.099	93.31
PFPeA	263.0 / 219.0	4.97	9.204	10.050	91.58
PFHxA_1	313.0 / 269.0	6.00	4.754	5.025	94.61
PFHxA_2	313.0 / 118.9	5.99	4.729	5.025	94.10
PFHpA_1	363.1 / 319.0	6.68	4.552	5.025	90.59
PFHpA_2	363.1 / 169.0	6.68	4.798	5.025	95.48
PFOA_1	413.0 / 369.0	7.20	4.782	5.031	95.05
PFOA_2	413.0 / 169.0	7.10	4.906	5.031	97.52
PFNA_1	463.0 / 419.0	7.65	4.447	5.021	88.56
PFNA_2	463.0 / 219.0	7.65	4.405	5.021	87.73
PFDA_1	512.9 / 469.0	8.08	4.405	5.025	87.67
PFDA_2	512.9 / 219.0	8.08	4.555	5.025	90.65
PFUnA_1	563.1 / 519.0	8.48	4.276	5.025	85.09
PFUnA_2	563.1 / 269.1	8.48	4.524	5.025	90.02
PFDoA_1	613.1 / 569.0	8.86	4.212	5.025	83.82
PFDoA_2	613.1 / 319.0	8.86	4.547	5.025	90.48
PFTrDA_1	663.0 / 619.0	9.24	4.783	5.025	95.18
PFTrDA_2	663.0 / 168.9	9.24	4.899	5.025	97.50
PFTeDA_1	713.0 / 669.0	9.59	4.458	5.025	88.71
PFTeDA_2	713.0 / 168.9	9.59	4.757	5.025	94.66
PFBS_1	298.7 / 79.9	5.91	3.837	4.462	85.99
PFBS_2	298.9 / 98.8	5.91	3.991	4.462	89.44
PFPeS_1	349.1 / 79.9	6.72	4.353	4.723	92.17
PFPeS_2	349.1 / 98.9	6.72	4.254	4.723	90.06
PFHxS_1	398.7 / 79.9	7.28	4.232	4.585	92.30
PFHxS_2	398.7 / 98.9	7.28	3.855	4.585	84.09
PFHpS_1	449.0 / 79.9	7.77	4.261	4.784	89.06
PFHpS_2	449.0 / 98.9	7.77	4.332	4.784	90.56
PFOS_1	498.9 / 79.9	8.21	4.223	4.663	90.57
PFOS_2	498.9 / 98.9	8.21	4.414	4.663	94.66
PFNS_1	548.8 / 79.9	8.62	4.467	4.824	92.59
PFNS_2	548.8 / 98.9	8.62	4.328	4.824	89.72
PFDS_1	599.0 / 79.9	9.01	4.579	4.844	94.53
PFDS_2	599.0 / 98.9	9.01	4.718	4.844	97.40
PFDoS_1	699.1 / 79.9	9.74	4.540	4.864	93.34
PFDoS_2	699.1 / 98.9	9.74	4.784	4.864	98.36
4:2FTS_1	327.1 / 307.0	5.77	17.233	18.833	91.50
4:2FTS_2	327.1 / 80.9	5.77	17.978	18.833	95.46
6:2FTS_1	427.1 / 407.0	7.02	20.420	19.115	106.83
6:2FTS_2	427.1 / 80.9	7.02	18.052	19.115	94.44
8:2FTS_1	527.1 / 507.0	7.90	20.220	19.296	104.79
8:2FTS_2	527.1 / 80.8	7.90	20.059	19.296	103.95
PFOSA_1	498.1 / 77.9	8.84	4.512	5.045	89.44
PFOSA_2	498.1 / 478.0	8.84	5.148	5.045	102.04
NMeFOSA_1	511.9 / 219.0	10.31	5.097	5.027	101.39
NMeFOSA_2	511.9 / 169.0	10.29	4.972	5.027	98.91
NEtFOSA_1	526.0 / 219.0	10.63	4.848	5.035	96.29
NEtFOSA_2	526.0 / 169.0	10.62	4.817	5.035	95.67
NMeFOSAA_1	570.1 / 419.0	8.10	4.738	5.025	94.29
NMeFOSAA_2	570.1 / 483.0	8.10	5.150	5.025	102.49
NEtFOSAA_1	584.2 / 419.1	8.25	4.962	5.031	98.64
NEtFOSAA_2	584.2 / 526.0	8.25	4.925	5.031	97.90
NMeFOSE	616.1 / 58.9	10.21	47.642	50.309	94.70
NEtFOSE	630.0 / 58.9	10.53	47.526	50.410	94.28
HFPO-DA_1	284.9 / 168.9	6.25	18.931	20.099	94.19
HFPO-DA_2	284.9 / 184.9	6.25	18.157	20.099	90.34
ADONA_1	376.9 / 250.9	6.87	18.789	18.994	98.92
ADONA_2	376.9 / 84.8	6.87	18.923	18.994	99.62
9Cl-PF3ONS_1	530.8 / 351.0	8.49	18.587	18.753	99.11
9Cl-PF3ONS_2	532.8 / 353.0	8.49	16.817	18.753	89.68
11Cl-PF3OUdS_1	630.9 / 450.9	9.27	17.954	18.954	94.72

QC Summary Report

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	9.27	17.417	18.954	91.89
3:3 FTCA_1	241.0 / 177.0	4.30	21.838	25.124	86.92
3:3 FTCA_2	241.0 / 117.0	4.30	22.314	25.124	88.81
5:3 FTCA_1	341.0 / 237.1	6.30	121.720	125.622	96.89
5:3 FTCA_2	341.0 / 217.0	6.30	119.111	125.622	94.82
7:3 FTCA_1	441.0 / 316.9	7.36	118.010	125.622	93.94
7:3 FTCA_2	441.0 / 336.9	7.36	122.681	125.622	97.66
NFDHA_1	295.0 / 201.1	5.89	10.089	10.050	100.39
NFDHA_2	295.0 / 84.9	5.89	9.758	10.050	97.10
PFEESA_1	314.8 / 134.9	6.30	9.247	8.964	103.16
PFEESA_2	314.8 / 82.9	6.30	9.028	8.964	100.72
PFMPA	229.0 / 84.9	3.77	9.609	10.050	95.61
PFMBA	279.0 / 85.1	5.34	9.730	10.050	96.82
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD35 CV	**Injection Vial**	10
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 6:24:01 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
PFBA	212.8 / 168.9	2.31	9.321	9.998	93.23
PFPeA	263.0 / 219.0	4.97	4.742	4.999	94.85
PFHxA_1	313.0 / 269.0	6.00	2.440	2.500	97.62
PFHxA_2	313.0 / 118.9	6.00	2.421	2.500	96.86
PFHpA_1	363.1 / 319.0	6.69	2.412	2.500	96.47
PFHpA_2	363.1 / 169.0	6.69	2.790	2.500	111.60
PFOA_1	413.0 / 369.0	7.20	2.370	2.503	94.67
PFOA_2	413.0 / 169.0	7.12	2.187	2.503	87.38
PFNA_1	463.0 / 419.0	7.66	2.209	2.498	88.42
PFNA_2	463.0 / 219.0	7.66	2.320	2.498	92.89
PFDA_1	512.9 / 469.0	8.08	2.226	2.500	89.05
PFDA_2	512.9 / 219.0	8.08	2.733	2.500	109.32
PFUnA_1	563.1 / 519.0	8.48	2.376	2.500	95.06
PFUnA_2	563.1 / 269.1	8.48	2.169	2.500	86.76
PFDoA_1	613.1 / 569.0	8.87	2.361	2.500	94.45
PFDoA_2	613.1 / 319.0	8.87	2.405	2.500	96.21
PFTrDA_1	663.0 / 619.0	9.24	2.424	2.500	96.96
PFTrDA_2	663.0 / 168.9	9.24	2.439	2.500	97.56
PFTeDA_1	713.0 / 669.0	9.59	2.482	2.500	99.27
PFTeDA_2	713.0 / 168.9	9.59	2.276	2.500	91.06
PFBS_1	298.7 / 79.9	5.91	2.071	2.220	93.28
PFBS_2	298.9 / 98.8	5.91	2.172	2.220	97.82
PFPeS_1	349.1 / 79.9	6.72	2.236	2.350	95.16
PFPeS_2	349.1 / 98.9	6.72	2.252	2.350	95.82
PFHxS_1	398.7 / 79.9	7.29	2.129	2.281	93.32
PFHxS_2	398.7 / 98.9	7.29	1.978	2.281	86.70
PFHpS_1	449.0 / 79.9	7.77	2.355	2.380	98.96
PFHpS_2	449.0 / 98.9	7.78	2.219	2.380	93.22
PFOS_1	498.9 / 79.9	8.21	2.219	2.320	95.65
PFOS_2	498.9 / 98.9	8.21	2.204	2.320	94.99
PFNS_1	548.8 / 79.9	8.63	2.146	2.400	89.43
PFNS_2	548.8 / 98.9	8.62	2.132	2.400	88.85
PFDS_1	599.0 / 79.9	9.02	2.388	2.410	99.09
PFDS_2	599.0 / 98.9	9.02	2.422	2.410	100.50
PFDoS_1	699.1 / 79.9	9.73	2.374	2.420	98.10
PFDoS_2	699.1 / 98.9	9.73	2.474	2.420	102.22
4:2FTS_1	327.1 / 307.0	5.77	8.451	9.368	90.21
4:2FTS_2	327.1 / 80.9	5.77	8.974	9.368	95.80
6:2FTS_1	427.1 / 407.0	7.02	10.530	9.508	110.75
6:2FTS_2	427.1 / 80.9	7.02	9.777	9.508	102.83
8:2FTS_1	527.1 / 507.0	7.90	8.848	9.598	92.19
8:2FTS_2	527.1 / 80.8	7.90	8.236	9.598	85.81
PFOSA_1	498.1 / 77.9	8.83	2.406	2.510	95.86
PFOSA_2	498.1 / 478.0	8.85	2.810	2.510	111.97
NMeFOSA_1	511.9 / 219.0	10.31	2.317	2.501	92.64
NMeFOSA_2	511.9 / 169.0	10.29	2.436	2.501	97.38
NEtFOSA_1	526.0 / 219.0	10.64	2.410	2.505	96.20
NEtFOSA_2	526.0 / 169.0	10.61	2.711	2.505	108.23
NMeFOSAA_1	570.1 / 419.0	8.10	2.864	2.500	114.56
NMeFOSAA_2	570.1 / 483.0	8.10	2.948	2.500	117.92
NEtFOSAA_1	584.2 / 419.1	8.26	2.442	2.503	97.58
NEtFOSAA_2	584.2 / 526.0	8.26	2.493	2.503	99.59
NMeFOSE	616.1 / 58.9	10.21	24.833	25.026	99.23
NEtFOSE	630.0 / 58.9	10.53	24.551	25.076	97.90
HFPO-DA_1	284.9 / 168.9	6.26	9.737	9.998	97.39
HFPO-DA_2	284.9 / 184.9	6.26	9.609	9.998	96.11
ADONA_1	376.9 / 250.9	6.88	9.705	9.448	102.72
ADONA_2	376.9 / 84.8	6.88	8.824	9.448	93.40
9Cl-PF3ONS_1	530.8 / 351.0	8.50	9.264	9.328	99.31
9Cl-PF3ONS_2	532.8 / 353.0	8.50	8.475	9.328	90.85
11Cl-PF3OUdS_1	630.9 / 450.9	9.27	9.524	9.428	101.02

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
11Cl-PF3OUdS_2	632.9 / 452.9	9.27	9.284	9.428	98.47
3:3 FTCA_1	241.0 / 177.0	4.30	10.585	12.498	84.69
3:3 FTCA_2	241.0 / 117.0	4.30	10.403	12.498	83.24
5:3 FTCA_1	341.0 / 237.1	6.31	58.296	62.489	93.29
5:3 FTCA_2	341.0 / 217.0	6.31	56.848	62.489	90.97
7:3 FTCA_1	441.0 / 316.9	7.36	58.720	62.489	93.97
7:3 FTCA_2	441.0 / 336.9	7.36	59.699	62.489	95.54
NFDHA_1	295.0 / 201.1	5.89	4.847	4.999	96.96
NFDHA_2	295.0 / 84.9	5.89	4.721	4.999	94.44
PFEESA_1	314.8 / 134.9	6.31	4.357	4.459	97.71
PFEESA_2	314.8 / 82.9	6.31	4.424	4.459	99.21
PFMPA	229.0 / 84.9	3.75	4.752	4.999	95.07
PFMBA	279.0 / 85.1	5.34	4.867	4.999	97.35
TDCA	499.0 / 107.0	N/A	N/A	0.000	N/A

Sample Name	MD40 ICC	**Injection Vial**	12
Sample ID	ICC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:01:52 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.32	10.374	10.000	103.74
13C5-PFPeA	268.3 / 223.0	4.97	5.436	5.000	108.73
13C5-PFHxA	318.0 / 273.0	6.00	2.589	2.500	103.56
13C4-PFHpA	367.1 / 322.0	6.69	2.565	2.500	102.60
13C8-PFOA	421.1 / 376.0	7.20	2.593	2.500	103.70
13C9-PFNA	472.1 / 427.0	7.65	1.417	1.250	113.37
13C6-PFDA	519.1 / 474.1	8.08	1.295	1.250	103.61
13C7-PFUnA	570.0 / 525.1	8.47	1.345	1.250	107.59
13C2-PFDoA	615.1 / 570.0	8.85	1.279	1.250	102.30
13C2-PFTeDA	715.2 / 670.0	9.57	1.365	1.250	109.24
13C3-PFBS	302.1 / 79.9	5.91	2.425	2.330	104.09
13C3-PFHxS	402.1 / 79.9	7.29	2.402	2.370	101.33
13C8-PFOS	507.1 / 79.9	8.21	2.409	2.395	100.59
13C2-4:2FTS	329.1 / 80.9	5.78	4.951	4.690	105.56
13C2-6:2FTS	429.1 / 80.9	7.03	4.445	4.755	93.47
13C2-8:2FTS	529.1 / 80.9	7.90	5.316	4.800	110.76
13C8-PFOSA	506.1 / 77.8	8.81	2.506	2.500	100.25
D3-MeFOSA	515.0 / 219.0	10.31	2.550	2.500	101.99
D5-EtFOSA	531.1 / 219.0	10.64	2.611	2.500	104.43
d3-MeFOSAA	573.2 / 419.0	8.10	5.486	5.000	109.71
d5-EtFOSAA	589.2 / 419.0	8.26	5.107	5.000	102.14
D7-MeFOSE	623.2 / 58.9	10.19	26.030	25.000	104.12
D9-EtFOSE	639.2 / 58.9	10.51	26.340	25.000	105.36
13C3-HFPO-DA	286.9 / 168.9	6.25	10.506	10.000	105.06

Sample Name	MD32 ISC	**Injection Vial**	13
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:24:48 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.34	10.054	9.998	100.56
13C5-PFPeA	268.3 / 223.0	4.98	5.513	4.999	110.28
13C5-PFHxA	318.0 / 273.0	6.00	2.543	2.499	101.78
13C4-PFHpA	367.1 / 322.0	6.69	2.535	2.499	101.44
13C8-PFOA	421.1 / 376.0	7.20	2.580	2.499	103.24
13C9-PFNA	472.1 / 427.0	7.65	1.258	1.250	100.64
13C6-PFDA	519.1 / 474.1	8.08	1.326	1.250	106.07
13C7-PFUnA	570.0 / 525.1	8.48	1.289	1.250	103.16
13C2-PFDoA	615.1 / 570.0	8.87	1.314	1.250	105.11
13C2-PFTeDA	715.2 / 670.0	9.59	1.273	1.250	101.82
13C3-PFBS	302.1 / 79.9	5.91	2.298	2.329	98.65
13C3-PFHxS	402.1 / 79.9	7.29	2.447	2.369	103.29
13C8-PFOS	507.1 / 79.9	8.22	2.194	2.394	91.63
13C2-4:2FTS	329.1 / 80.9	5.77	4.690	4.689	100.02
13C2-6:2FTS	429.1 / 80.9	7.03	4.462	4.754	93.85
13C2-8:2FTS	529.1 / 80.9	7.90	4.839	4.799	100.83
13C8-PFOSA	506.1 / 77.8	8.81	2.309	2.499	92.39
D3-MeFOSA	515.0 / 219.0	10.31	2.371	2.499	94.87
D5-EtFOSA	531.1 / 219.0	10.63	2.241	2.499	89.69
d3-MeFOSAA	573.2 / 419.0	8.11	4.952	4.999	99.05
d5-EtFOSAA	589.2 / 419.0	8.26	5.284	4.999	105.70
D7-MeFOSE	623.2 / 58.9	10.20	24.496	24.994	98.01
D9-EtFOSE	639.2 / 58.9	10.51	25.072	24.994	100.31
13C3-HFPO-DA	286.9 / 168.9	6.26	10.098	9.998	101.00

Sample Name	MD35 CV	**Injection Vial**	14
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/26/2024 2:47:41 AM	**Data File**	AH_03252024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.31	9.901	9.998	99.03
13C5-PFPeA	268.3 / 223.0	4.97	5.501	4.999	110.03
13C5-PFHxA	318.0 / 273.0	6.00	2.599	2.500	103.97
13C4-PFHpA	367.1 / 322.0	6.68	2.498	2.500	99.92
13C8-PFOA	421.1 / 376.0	7.20	2.527	2.500	101.07
13C9-PFNA	472.1 / 427.0	7.66	1.251	1.250	100.05
13C6-PFDA	519.1 / 474.1	8.08	1.244	1.250	99.52
13C7-PFUnA	570.0 / 525.1	8.47	1.270	1.250	101.63
13C2-PFDoA	615.1 / 570.0	8.85	1.265	1.250	101.19
13C2-PFTeDA	715.2 / 670.0	9.56	1.194	1.250	95.55
13C3-PFBS	302.1 / 79.9	5.91	2.398	2.330	102.93
13C3-PFHxS	402.1 / 79.9	7.29	2.416	2.370	101.92
13C8-PFOS	507.1 / 79.9	8.21	2.231	2.395	93.15
13C2-4:2FTS	329.1 / 80.9	5.78	4.509	4.689	96.16
13C2-6:2FTS	429.1 / 80.9	7.02	4.497	4.754	94.60
13C2-8:2FTS	529.1 / 80.9	7.90	4.275	4.799	89.09
13C8-PFOSA	506.1 / 77.8	8.80	2.218	2.500	88.71
D3-MeFOSA	515.0 / 219.0	10.28	2.190	2.500	87.61
D5-EtFOSA	531.1 / 219.0	10.61	2.374	2.500	94.97
d3-MeFOSAA	573.2 / 419.0	8.10	4.559	4.999	91.20
d5-EtFOSAA	589.2 / 419.0	8.25	4.569	4.999	91.39
D7-MeFOSE	623.2 / 58.9	10.17	22.538	24.996	90.17
D9-EtFOSE	639.2 / 58.9	10.48	22.962	24.996	91.86
13C3-HFPO-DA	286.9 / 168.9	6.26	11.029	9.998	110.31

Sample Name	MD32 ISC	**Injection Vial**	2
Sample ID	ISC	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 3:21:02 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.31	9.962	9.998	99.64
13C5-PFPeA	268.3 / 223.0	4.97	5.564	4.999	111.30
13C5-PFHxA	318.0 / 273.0	6.00	2.603	2.499	104.16
13C4-PFHpA	367.1 / 322.0	6.68	2.664	2.499	106.59
13C8-PFOA	421.1 / 376.0	7.20	2.564	2.499	102.62
13C9-PFNA	472.1 / 427.0	7.65	1.195	1.250	95.57
13C6-PFDA	519.1 / 474.1	8.08	1.251	1.250	100.04
13C7-PFUnA	570.0 / 525.1	8.48	1.326	1.250	106.04
13C2-PFDoA	615.1 / 570.0	8.87	1.365	1.250	109.21
13C2-PFTeDA	715.2 / 670.0	9.59	1.338	1.250	107.02
13C3-PFBS	302.1 / 79.9	5.91	2.226	2.329	95.56
13C3-PFHxS	402.1 / 79.9	7.29	2.394	2.369	101.04
13C8-PFOS	507.1 / 79.9	8.22	2.218	2.394	92.65
13C2-4:2FTS	329.1 / 80.9	5.78	4.442	4.689	94.72
13C2-6:2FTS	429.1 / 80.9	7.02	4.356	4.754	91.63
13C2-8:2FTS	529.1 / 80.9	7.90	4.689	4.799	97.71
13C8-PFOSA	506.1 / 77.8	8.86	2.569	2.499	102.82
D3-MeFOSA	515.0 / 219.0	10.33	2.372	2.499	94.93
D5-EtFOSA	531.1 / 219.0	10.65	2.542	2.499	101.72
d3-MeFOSAA	573.2 / 419.0	8.11	5.281	4.999	105.64
d5-EtFOSAA	589.2 / 419.0	8.27	4.703	4.999	94.07
D7-MeFOSE	623.2 / 58.9	10.21	25.153	24.994	100.63
D9-EtFOSE	639.2 / 58.9	10.53	26.671	24.994	106.71
13C3-HFPO-DA	286.9 / 168.9	6.26	10.618	9.998	106.20

Sample Name	MD36 CV	**Injection Vial**	3
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 3:43:54 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.32	10.179	10.050	101.28
13C5-PFPeA	268.3 / 223.0	4.95	5.076	5.025	101.01
13C5-PFHxA	318.0 / 273.0	5.98	2.425	2.512	96.53
13C4-PFHpA	367.1 / 322.0	6.67	2.604	2.512	103.67
13C8-PFOA	421.1 / 376.0	7.19	2.319	2.512	92.30
13C9-PFNA	472.1 / 427.0	7.64	1.316	1.256	104.81
13C6-PFDA	519.1 / 474.1	8.07	1.319	1.256	105.01
13C7-PFUnA	570.0 / 525.1	8.46	1.313	1.256	104.57
13C2-PFDoA	615.1 / 570.0	8.85	1.422	1.256	113.20
13C2-PFTeDA	715.2 / 670.0	9.57	1.303	1.256	103.72
13C3-PFBS	302.1 / 79.9	5.90	2.397	2.342	102.34
13C3-PFHxS	402.1 / 79.9	7.28	2.314	2.382	97.15
13C8-PFOS	507.1 / 79.9	8.20	2.564	2.407	106.53
13C2-4:2FTS	329.1 / 80.9	5.76	4.498	4.713	95.44
13C2-6:2FTS	429.1 / 80.9	7.00	4.233	4.779	88.57
13C2-8:2FTS	529.1 / 80.9	7.89	4.222	4.824	87.51
13C8-PFOSA	506.1 / 77.8	8.83	2.753	2.512	109.58
D3-MeFOSA	515.0 / 219.0	10.31	2.526	2.512	100.57
D5-EtFOSA	531.1 / 219.0	10.63	2.688	2.512	107.02
d3-MeFOSAA	573.2 / 419.0	8.09	5.318	5.025	105.84
d5-EtFOSAA	589.2 / 419.0	8.24	4.954	5.025	98.58
D7-MeFOSE	623.2 / 58.9	10.19	27.356	25.124	108.89
D9-EtFOSE	639.2 / 58.9	10.51	28.133	25.124	111.98
13C3-HFPO-DA	286.9 / 168.9	6.24	10.457	10.050	104.05

Sample Name	MD35 CV	**Injection Vial**	10
Sample ID	CV	**Injection Volume**	3.00
Sample Type	Quality Control	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 6:24:01 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/mL)	Target Conc. (ng/mL)	Recovery (%)
13C4-PFBA	216.8 / 171.9	2.30	10.300	9.998	103.02
13C5-PFPeA	268.3 / 223.0	4.95	5.495	4.999	109.92
13C5-PFHxA	318.0 / 273.0	5.98	2.746	2.500	109.84
13C4-PFHpA	367.1 / 322.0	6.67	2.615	2.500	104.61
13C8-PFOA	421.1 / 376.0	7.19	2.511	2.500	100.46
13C9-PFNA	472.1 / 427.0	7.64	1.280	1.250	102.39
13C6-PFDA	519.1 / 474.1	8.07	1.408	1.250	112.62
13C7-PFUnA	570.0 / 525.1	8.47	1.346	1.250	107.64
13C2-PFDoA	615.1 / 570.0	8.85	1.414	1.250	113.15
13C2-PFTeDA	715.2 / 670.0	9.57	1.377	1.250	110.18
13C3-PFBS	302.1 / 79.9	5.90	2.324	2.330	99.75
13C3-PFHxS	402.1 / 79.9	7.28	2.241	2.370	94.55
13C8-PFOS	507.1 / 79.9	8.20	2.428	2.395	101.37
13C2-4:2FTS	329.1 / 80.9	5.76	4.601	4.689	98.11
13C2-6:2FTS	429.1 / 80.9	7.01	4.012	4.754	84.40
13C2-8:2FTS	529.1 / 80.9	7.89	4.538	4.799	94.56
13C8-PFOSA	506.1 / 77.8	8.83	2.658	2.500	106.31
D3-MeFOSA	515.0 / 219.0	10.31	2.616	2.500	104.64
D5-EtFOSA	531.1 / 219.0	10.64	2.617	2.500	104.70
d3-MeFOSAA	573.2 / 419.0	8.09	4.763	4.999	95.28
d5-EtFOSAA	589.2 / 419.0	8.25	5.007	4.999	100.17
D7-MeFOSE	623.2 / 58.9	10.19	26.969	24.996	107.90
D9-EtFOSE	639.2 / 58.9	10.51	27.466	24.996	109.88
13C3-HFPO-DA	286.9 / 168.9	6.24	10.952	9.998	109.54

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PFAS Sample Quant Report

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Sample Name	C2686-FS1(0)	**Injection Vial**	9
Sample ID	WGNA-SW-36A-20240319	**Injection Volume**	3.00
Sample Type	Unknown	**Instrument Name**	SCIEX Triple Quad 6500+
Acquisition Date	3/27/2024 6:01:10 PM	**Data File**	AH_03272024_1633.wiff
Acquisition Method	D:\SCIEX OS Data\PFAS\Acquisition Methods\1633_MS.msm	**Result Table**	24-0220
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBA	212.8 / 168.9	2.32	88881.31	3.227	516.8	2.31	13C4-PFBA	1117284.61	40.000				
PFPeA	263.0 / 219.0	4.97	466763.39	6.918	687.8	4.95	13C5-PFPeA	867238.38	20.000		N/A	N/A	✓
PFHxA_1	313.0 / 269.0	6.00	553220.47	6.734	625.7	5.98	13C5-PFHxA	812687.71	10.000	PFHxA			
PFHxA_2	313.0 / 118.9	6.00	30066.24	6.424	442.6	5.98	13C5-PFHxA	812687.71	10.000	PFHxA	0.054	0.057	✓
PFHpA_1	363.1 / 319.0	6.68	210553.71	2.425	353.6	6.67	13C4-PFHpA	1021812.28	10.000	PFHpA			
PFHpA_2	363.1 / 169.0	6.68	4135.74	3.516	222.3	6.67	13C4-PFHpA	1021812.28	10.000	PFHpA	0.020	0.014	✓
PFOA_1	413.0 / 369.0	7.20	910855.14	8.351	743.2	7.19	13C8-PFOA	1208965.55	10.000	PFOA			
PFOA_2	413.0 / 169.0	7.18	59562.48	5.977	912.6	7.19	13C8-PFOA	1208965.55	10.000	PFOA	0.065	0.091	✓
PFNA_1	463.0 / 419.0	7.65	66575.26	1.137	139.7	7.64	13C9-PFNA	502138.05	5.000	PFNA			
PFNA_2	463.0 / 219.0	7.65	25131.11	0.868	292.5	7.64	13C9-PFNA	502138.05	5.000	PFNA	0.378	0.496	✓
PFDA_1	512.9 / 469.0	8.09	38717.23	0.396	157.6	8.07	13C6-PFDA	453445.36	5.000	PFDA			
PFDA_2	512.9 / 219.0	8.06	821.77	0.292	16491.9	8.07	13C6-PFDA	453445.36	5.000	PFDA	0.021	0.029	✓
PFUnA_1	563.1 / 519.0	N/A	N/A	N/A	N/A	8.47	13C7-PFUnA	257510.13	5.000	PFUnA			
PFUnA_2	563.1 / 269.1	N/A	N/A	N/A	N/A	8.47	13C7-PFUnA	257510.13	5.000	PFUnA	N/A	0.037	✓
PFDoA_1	613.1 / 569.0	N/A	N/A	N/A	N/A	8.85	13C2-PFDoA	304989.74	5.000	PFDoA			
PFDoA_2	613.1 / 319.0	N/A	N/A	N/A	N/A	8.85	13C2-PFDoA	304989.74	5.000	PFDoA	N/A	0.241	✓
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	9.57	13C2-PFTeDA	130765.07	5.000	PFTrDA			
PFTrDA_2	663.0 / 168.9	N/A	N/A	N/A	N/A	9.57	13C2-PFTeDA	130765.07	5.000	PFTrDA	N/A	0.040	✓
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	9.57	13C2-PFTeDA	130765.07	5.000	PFTeDA			
PFTeDA_2	713.0 / 168.9	N/A	N/A	N/A	N/A	9.57	13C2-PFTeDA	130765.07	5.000	PFTeDA	N/A	0.029	✓
PFBS_1	298.7 / 79.9	5.91	299703.20	4.170	775.4	5.90	13C3-PFBS	794452.93	9.320	PFBS			
PFBS_2	298.9 / 98.8	5.91	102075.66	4.171	668.8	5.90	13C3-PFBS	794452.93	9.320	PFBS	0.341	0.341	✓
PFPeS_1	349.1 / 79.9	6.72	70954.22	1.862	335.3	7.28	13C3-PFHxS	585890.70	9.480	PFPeS			
PFPeS_2	349.1 / 98.9	6.71	33944.53	1.912	234.4	7.28	13C3-PFHxS	585890.70	9.480	PFPeS	0.478	0.466	✓
PFHxS_1	398.7 / 79.9	7.29	949505.55	13.527	1191.4	7.28	13C3-PFHxS	585890.70	9.480	PFHxS			
PFHxS_2	398.7 / 98.9	7.29	332179.24	13.219	922.2	7.28	13C3-PFHxS	585890.70	9.480	PFHxS	0.350	0.358	✓
PFHpS_1	449.0 / 79.9	7.77	39791.30	0.625	220.4	8.21	13C8-PFOS	409813.28	9.580	PFHpS			
PFHpS_2	449.0 / 98.9	7.77	18298.21	0.926	289.1	8.21	13C8-PFOS	409813.28	9.580	PFHpS	0.460	0.311	✓
PFOS_1	498.9 / 79.9	8.21	2523536.44	36.775	1171.1	8.21	13C8-PFOS	409813.28	9.580	PFOS			
PFOS_2	498.9 / 98.9	8.21	485294.31	32.555	1776.0	8.21	13C8-PFOS	409813.28	9.580	PFOS	0.192	0.218	✓
PFNS_1	548.8 / 79.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFNS			
PFNS_2	548.8 / 98.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFNS	N/A	0.185	✓
PFDS_1	599.0 / 79.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFDS			
PFDS_2	599.0 / 98.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFDS	N/A	0.289	✓
PFDoS_1	699.1 / 79.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFDoS			
PFDoS_2	699.1 / 98.9	N/A	N/A	N/A	N/A	8.21	13C8-PFOS	409813.28	9.580	PFDoS	N/A	0.325	✓
4:2FTS_1	327.1 / 307.0	N/A	N/A	N/A	N/A	5.76	13C2-4:2FTS	255280.83	18.760	4:2FTS			

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PFAS Sample Quant Report

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Analyte	MRM Transition	RT	Area	Conc. (ng)	S/N Ratio	IS RT	IS	IS Area	IS Conc. (ng)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
4:2FTS_2	327.1 / 80.9	N/A	N/A	N/A	N/A	5.76	13C2-4:2FTS	255280.83	18.760	4:2FTS	N/A	2.541	✓
6:2FTS_1	427.1 / 407.0	7.02	33029.34	2.132	143487.2	7.00	13C2-6:2FTS	95699.30	19.020	6:2FTS			
6:2FTS_2	427.1 / 80.9	7.02	7768.70	1.482	55.4	7.00	13C2-6:2FTS	95699.30	19.020	6:2FTS	0.235	0.339	✓
8:2FTS_1	527.1 / 507.0	7.89	1847.64	0.116	1241.0	7.89	13C2-8:2FTS	24868.03	19.200	8:2FTS			
8:2FTS_2	527.1 / 80.8	N/A	N/A	N/A	N/A	7.89	13C2-8:2FTS	24868.03	19.200	8:2FTS	N/A	0.086	
PFOSA_1	498.1 / 77.9	N/A	N/A	N/A	N/A	8.83	13C8-PFOSA	420001.34	10.000	PFOSA			
PFOSA_2	498.1 / 478.0	N/A	N/A	N/A	N/A	8.83	13C8-PFOSA	420001.34	10.000	PFOSA	N/A	0.007	✓
NMeFOSA_1	511.9 / 219.0	N/A	N/A	N/A	N/A	10.31	D3-MeFOSA	114063.83	10.000	NMeFOSA			
NMeFOSA_2	511.9 / 169.0	N/A	N/A	N/A	N/A	10.31	D3-MeFOSA	114063.83	10.000	NMeFOSA	N/A	0.935	✓
NEtFOSA_1	526.0 / 219.0	N/A	N/A	N/A	N/A	10.63	D5-EtFOSA	106439.99	10.000	NEtFOSA			
NEtFOSA_2	526.0 / 169.0	N/A	N/A	N/A	N/A	10.63	D5-EtFOSA	106439.99	10.000	NEtFOSA	N/A	0.917	✓
NMeFOSAA_1	570.1 / 419.0	N/A	N/A	N/A	N/A	8.09	d3-MeFOSAA	249785.41	20.000	NMeFOSAA			
NMeFOSAA_2	570.1 / 483.0	N/A	N/A	N/A	N/A	8.09	d3-MeFOSAA	249785.41	20.000	NMeFOSAA	N/A	0.080	✓
NEtFOSAA_1	584.2 / 419.1	N/A	N/A	N/A	N/A	8.25	d5-EtFOSAA	214687.85	20.000	NEtFOSAA			
NEtFOSAA_2	584.2 / 526.0	N/A	N/A	N/A	N/A	8.25	d5-EtFOSAA	214687.85	20.000	NEtFOSAA	N/A	1.464	✓
NMeFOSE	616.1 / 58.9	N/A	N/A	N/A	N/A	10.19	D7-MeFOSE	2102392.51	100.000		N/A	N/A	✓
NEtFOSE	630.0 / 58.9	N/A	N/A	N/A	N/A	10.50	D9-EtFOSE	2142455.38	100.000		N/A	N/A	✓
HFPO-DA_1	284.9 / 168.9	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	HFPO-DA			
HFPO-DA_2	284.9 / 184.9	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	HFPO-DA	N/A	0.110	✓
ADONA_1	376.9 / 250.9	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	ADONA			
ADONA_2	376.9 / 84.8	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	ADONA	N/A	0.008	✓
9Cl-PF3ONS_1	530.8 / 351.0	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	9Cl-PF3ONS			
9Cl-PF3ONS_2	532.8 / 353.0	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	9Cl-PF3ONS	N/A	0.352	✓
11Cl-PF3OUdS_1	630.9 / 450.9	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	11Cl-PF3OUdS			
11Cl-PF3OUdS_2	632.9 / 452.9	N/A	N/A	N/A	N/A	6.24	13C3-HFPO-DA	1680805.96	40.000	11Cl-PF3OUdS	N/A	0.340	✓
3:3 FTCA_1	241.0 / 177.0	N/A	N/A	N/A	N/A	4.95	13C5-PFPeA	867238.38	20.000	3:3 FTCA			
3:3 FTCA_2	241.0 / 117.0	N/A	N/A	N/A	N/A	4.95	13C5-PFPeA	867238.38	20.000	3:3 FTCA	N/A	0.057	✓
5:3 FTCA_1	341.0 / 237.1	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	5:3 FTCA			
5:3 FTCA_2	341.0 / 217.0	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	5:3 FTCA	N/A	0.384	✓
7:3 FTCA_1	441.0 / 316.9	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	7:3 FTCA			
7:3 FTCA_2	441.0 / 336.9	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	7:3 FTCA	N/A	2.338	✓
NFDHA_1	295.0 / 201.1	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	NFDHA			
NFDHA_2	295.0 / 84.9	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	NFDHA	N/A	0.631	✓
PFEESA_1	314.8 / 134.9	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	PFEESA			
PFEESA_2	314.8 / 82.9	N/A	N/A	N/A	N/A	5.98	13C5-PFHxA	812687.71	10.000	PFEESA	N/A	0.049	✓
PFMPA	229.0 / 84.9	N/A	N/A	N/A	N/A	4.95	13C5-PFPeA	867238.38	20.000		N/A	N/A	✓
PFMBA	279.0 / 85.1	N/A	N/A	N/A	N/A	4.95	13C5-PFPeA	867238.38	20.000		N/A	N/A	✓
TDCA	499.0 / 107.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	✓

APPENDIX D
HISTORICAL SURFACE WATER ANALYTICAL DATA

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Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421	4/21/2022	35	**440**	23	160	3.7	1.3 BU	0.78 J	0.87 U	19	63	0.49 J
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421-D	4/21/2022	36	**460**	24	160	3.8	**6.6 BJ+**	0.74 J	0.86 UR	20	65	0.62 J
NPA-SW/SD06	Neshaminy	NPA-SW06-20220419	4/19/2022	9	84	4.1	32	1.1 J	1.6 BU	0.87 U	0.87 UJ	4.8	13	0.87 U
NPA-SW/SD08	Neshaminy	NPA-SW08-20220419	4/19/2022	54	**770**	24	170	3.8	1.8 BU	1.1 J	0.92 UJ	19	80	0.92 U
NPA-SW/SD09	Neshaminy	NPA-SW09-20220421	4/21/2022	110 J	**2500**	65	430	7.4 J	0.9 U	4.5	1.4 J+	44	180 J	3.3
NPA-SW/SD11	Neshaminy	NPA-SW11-20220419	4/19/2022	17	**250**	8	70	3.4	3.8 BJ+	0.89 J	0.82 U	9.9	29	0.44 J
NPA-SW/SD21	Neshaminy	NPA-SW21-20220420	4/20/2022	5.6	48	1.5 J	14	1.8	4.1 BJ+	0.85 U	0.85 U	4.3	6.5	0.85 U
WGNA-SW/SD-01	Neshaminy	SW-01-022515	2/25/2015	135	**2340**	209	**1240**	83 U	--	--	--	62	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-042516	4/25/2016	170	**2850**	202	**1440**	19.1 J	--	--	--	80.4	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-080717	8/7/2017	98.4	**1310**	98.9	786	7.16 J	--	6 U	6 U	33	132	6 U
WGNA-SW/SD-01	Neshaminy	SW-01-080717-D	8/7/2017	95.6	**1220**	85.3	741	7.5 J	--	6 U	6 U	36.6	116	6 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20190725	7/25/2019	110.58	**2432.43**	88.91	495.59	7.68	0.34 U	2.98 J	0.16 J	43.7	176.98	0.89 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200129	1/29/2020	52.38	**1108.7**	63.37	290.46	4.24 J	0.44 U	1.68 J	0.44 UJ	25.29	94.25	0.32 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200504	5/4/2020	78.93 J	**1319.39 J**	50.94 J	239.25 J	7.71 J	0.45 UJ	2.22 J	0.45 UJ	33.32 J	110.36 J	0.67 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210112	1/12/2021	59.1	**1180**	69.7	289	4.69	0.352 J	1.72 J	0.417 UJ	25.5	109	0.524 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210316	3/16/2021	65	**1840**	59.7	295	6.5	0.331 J	1.46 J	0.455 U	29.9	109	0.327 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210629	6/29/2021	191	**4180**	221	829	16.7	0.475 U	0.475 U	0.475 U	92	378	0.475 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210921	9/21/2021	123	**2700**	136	597	10.4	2.31 U	3.76 J	2.31 U	64	257	2.31 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20211215	12/15/2021	191	**2760**	106	645	16	2.26 U	4.34 J	2.26 U	82.4	293	2.26 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220322	3/22/2022	61.3	**1250**	74	359	6.66	2.06 U	2.27 J	2.06 U	31.6	119	2.06 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220615	6/15/2022	106	**2100**	72.7	437	7.85	2.32 U	3.15 J	2.32 U	37.7	147	2.32 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20221206	12/6/2022	85.2	**1490 J**	81.9	460	6.54 J+	2.28 U	2.6 J	2.28 U	52.8	188	2.28 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20230321	3/21/2023	37.8	**1240**	35	229	5.71	2.32 U	1.59 J	2.32 U	22.4	62.9	2.32 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240103	1/3/2024	64.1	**716**	65.6	400	7.16	1.53 U	1.85	0.614 U	28.5	91.5	0.339 J
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240320	3/20/2024	44	**626**	35.5	239	6.69	1.57 U	1.63 J	0.632 U	20.5	62.1	0.426 U
WGNA-SW/SD-02	Neshaminy	SW-02-022515	2/25/2015	160 U	**1240**	80 U	318	80 U	--	--	--	80 U	--	--
WGNA-SW/SD-02	Neshaminy	SW-02-042516	4/25/2016	56.3	**642**	29.7	205	9.01 J	--	--	--	24	--	--
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725	7/25/2019	51.46	**833.81**	14.16	157.08	9.2	0.33 U	1.12 J	0.17 J	19.76	36.7	0.42 J
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725-D	7/25/2019	46.66	**906.79**	13.42	164.46	9.3	0.34 U	1.2 J	0.43 U	20.76	36.19	0.37 J
WGNA-SW/SD-03	Neshaminy	SW-03-022515	2/25/2015	51.3	**553**	36.1	288	33 U	--	--	--	25.9	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-042516	4/25/2016	40.9	**429**	22.1	211	9.6 U	--	--	--	19.2	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-080717	8/7/2017	60.4	**851**	24.7	281	9.43	--	6 U	6 U	33.5	61	6 U
WGNA-SW/SD-03	Neshaminy	SW-03-081017	8/10/2017	49.4	**667**	21.3	251	8.08	--	6 U	6 U	26.3	45.7	6 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20190725	7/25/2019	38.48	**645.38**	11.11	131.4	6.66	0.34 U	0.98 J	0.42 U	16.35	29.79	0.41 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20191022	10/22/2019	29.06	**304.04**	9.86	75.29	3.61 J	0.41 UJ	1.24 J	0.19 J	12.46	22.11 J	0.56 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200129	1/29/2020	35.99	**392.17**	12.28	119.92	5.32	0.42 U	0.62 U	0.42 U	15.75	28.23	0.21 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200504	5/4/2020	39.03	**379.66**	12.28	127.38	7.39	0.43 U	0.74 J	0.43 U	21.84	36.1	0.24 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200915	9/15/2020	27.39	**255.41**	9.85	107.28	5.48	0.33 J	0.97 J	0.41 J	13.61	26.02	1.54 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210112	1/12/2021	37	**480**	14.5	144	5.41	0.403 U	0.532 J	0.403 U	18.2	33.4	0.226 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210316	3/16/2021	43.1	**614**	17.4	197	7.88	0.237 J	0.533 J	0.431 U	23.4	40.6	0.349 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210629	6/29/2021	43.5	**362**	18.8	127	6.98	0.446 U	0.446 U	0.446 U	21.4	48.4	0.446 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210921	9/21/2021	44.8	**557**	19	195	7.36	2.15 U	2.15 U	2.15 U	25.1	40.5	2.15 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20211215	12/15/2021	32.8	**276**	9.7	127	4.25 J	2.22 U	2.22 U	2.22 U	16.1	25.1	2.22 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20220915	9/15/2022	24.8	**229**	4.93	65.7	4.65	2.1 U	2.1 U	2.1 U	14.6	22.5	2.1 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20221206	12/6/2022	30	**280**	9	78.9	3.53 J	2.19 U	2.19 U	2.19 U	15.8	27.1	2.19 U

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230321	3/21/2023	25.9	**372**	9.36	121	5.2	2.14 U	2.14 U	2.14 U	16	22.2	2.14 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230606	6/6/2023	28.6	**265**	14	123	5.84	2.49 U	0.829 J	2.49 U	14.3	23.3	0.845 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230920	9/20/2023	37	**316**	7.73	104	5.04	2.16 U	1.28 J	2.16 U	18.3	34.2	0.924 J
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240103	1/3/2024	40.6	**361**	10.4	148	5.97	1.38 U	0.627 J	0.556 U	18.5	29.8	0.375 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240320	3/20/2024	50.5	**551**	12.8	159	10.7	1.36 U	0.96 J	0.545 U	24.7	33.3	0.368 U
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220322	3/22/2022	37.5	**397**	26.7	133	7.23	2.07 U	2.07 U	2.07 U	21.4	40.8	2.07 U
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220615	6/15/2022	35.2	**449**	9.6	121	5.41	2.31 U	1.14 J	2.31 U	15.3	25.4	2.31 U
WGNA-SW/SD-04	Neshaminy	SW-04-022515	2/25/2015	40	**374**	38.9	226	32 U	--	--	--	17.13	--	--
WGNA-SW/SD-04	Neshaminy	SW-04-042916	4/29/2016	31.8	**214**	20.3 J	116	10 U	--	--	--	12 J	--	--
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240103	1/3/2024	22.9	137	10.7	67.4	2.75	1.35 U	0.444 J	0.541 U	8.07	16	0.365 U
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320	3/20/2024	25.3	**149**	14.7	71.7	3.72	1.34 U	0.35 J	0.54 U	8.94	18.6	0.364 U
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320-D	3/20/2024	27	**157**	14.5	76.4	3.73	1.42 U	0.422 U	0.57 U	9.37	20	0.384 U
WGNA-SW/SD-05	Neshaminy	SW-05-042816	4/28/2016	31.1 J-	129 J-	16 UJ	79.2 J-	10 UJ	--	--	--	12.3 J-	--	--
WGNA-SW/SD-05	Neshaminy	SW-05-081017	8/10/2017	42.9	**221**	19.2	117	4.1 J	--	6 U	6 U	13	24.9	6 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20190725	7/25/2019	31.32	**225.26**	14.54	95.46	3.1 J	0.33 U	0.74 J	0.41 U	11.35	20.47	0.28 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022	10/22/2019	22.53	132.11	13.14	61.12	3.44 J	0.21 J	0.81 J	0.42 U	10.08	19.46 J	0.29 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022-D	10/22/2019	21.21	124.61	13.83	52.28	2.58 J	0.42 UJ	0.76 J	0.42 U	8.79	18.8 J	0.24 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191025	10/25/2019	16.06	96.16	11.09	54.55	2.23 J	0.42 U	0.49 J	0.42 U	7.6	16.07	0.42 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129	1/29/2020	17.92	125.75	12.24	57.43	2.34 J	0.41 U	0.42 U	0.41 UJ	7.78	14.9	0.41 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129-D	1/29/2020	17.39	133.61	10.82	53.58	2.27 J	0.41 U	0.42 J	0.41 U	7.31	14.93	0.41 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200504	5/4/2020	23.69	**147.59**	15.58	80.27	3.13 J	0.42 U	0.58 J	0.42 U	11.17	21.18	0.42 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200915	9/15/2020	27.26	115.55	16.68	84.66	2.69 J	0.41 J	0.51 J	0.42 U	12.44	31.59 J+	0.42 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210112	1/12/2021	22.6	131	16.2	86.2	2.55 J	0.403 U	0.358 J	0.403 U	10.4	26	0.186 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210316	3/16/2021	18.6	114	15	63.5	1.93 J	0.472 U	0.138 J	0.472 U	8.97	20.4	0.472 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210629	6/29/2021	33.8	**190**	28.8	90.7	2.7 J	0.455 U	0.455 U	0.455 U	15.3	37.7	0.455 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210921	9/21/2021	31.7	**242**	25.1	119	3.84 J	2.2 U	2.2 U	2.2 U	18.4	37.4	2.2 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20211215	12/15/2021	30.2	137	15.8	92.4	2.1 J	2.24 U	2.24 U	2.24 U	13.5	32.7	2.24 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322	3/22/2022	24.9 J	127	27.1	74.6	2.86 J	2.08 U	2.08 U	2.08 U	14.3	35.8	2.08 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322-D	3/22/2022	19.7	136	18.9	66.4	2.64 J	2.13 U	2.13 U	2.13 U	12	32.1	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220615	6/15/2022	22.8	**172**	12	72.2	3.16 J	2.16 U	0.734 J	2.16 U	9.57	19.4	2.16 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220915	9/15/2022	15.4	121	6.71	43.7	2.74 J	2.1 U	2.1 U	2.1 U	8.08	15	2.1 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20221206	12/6/2022	26.3	**196**	11.5	64.9	2.25 J	2.31 U	2.31 U	2.31 U	10.9	25.3	2.31 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230321	3/21/2023	16.4	130	15.3	71.7	2.34 J	2.13 U	2.13 U	2.13 U	8.77	18.9	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230606	6/6/2023	28.3	**194**	12.9	97	3.36 J	2.11 U	0.949 J	2.11 U	12	23.9	0.693 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920	9/20/2023	22.2	137	8.18	57	3.56 J	2.13 U	2.13 U	0.687 J	9.84	22.6	0.759 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920-D	9/20/2023	20.8	130	8.03	64	2.97 J	2.13 U	0.805 J	2.13 U	8.64	18.8	0.73 J
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240103	1/3/2024	20.1	102	11.3	58.9	2.46	1.45 U	0.421 J	0.584 U	7.02	16.6	0.394 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240320	3/20/2024	23.3	109	12.8	58.7	2.76	1.43 U	0.34 J	0.576 U	8.48	17	0.388 U
WGNA-SW/SD-06	Neshaminy	SW-06-022515	2/25/2015	33	15	17	17 U	17 U	--	--	--	17 U	--	--
WGNA-SW/SD-06	Neshaminy	SW-06-042916	4/29/2016	12.9 J	18.5 J	16 U	10.2 J	10 U	--	--	--	16 U	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-022315	2/23/2015	32 U	13.8	16 U	16 U	16 U	--	--	--	16 U	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-042816	4/28/2016	16 UJ	8.11 J-	16 UJ	16 UJ	10 UJ	--	--	--	16 UJ	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-022315	2/23/2015	32 U	19.8	16 U	16 U	16 U	--	--	--	16 U	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-042816	4/28/2016	11.3 J-	12.4 J-	17 UJ	17 UJ	10 UJ	--	--	--	17 UJ	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220615	6/15/2022	9.64	11.5	5.03	2.58 J	1.74 J	2.21 U	2.21 U	2.21 U	5.86	7.22	2.21 U

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220915	9/15/2022	6.67	6.53	3.03 J	3.09 J	1.88 J	2.1 U	2.1 U	2.1 U	6.23	10.5	2.1 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20221206	12/6/2022	6.88	6.73	4.47	2.69 J	2.16 U	2.16 U	2.16 U	2.16 U	3.18 J	5.18	2.16 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230321	3/21/2023	5.5	7.33	4.3	1.66 J	0.816 J	2.06 U	2.06 U	2.06 U	2.14 J	3.55 J	2.06 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230606	6/6/2023	12	13.3	4.52	3.69 J	2.5 J	2.21 U	2.21 U	2.21 U	5.66	8.16	0.802 J
WGNA-SW/SD-09	Neshaminy	SW-09-022315	2/23/2015	33 U	17.6	17 U	17 U	17 U	--	--	--	17 U	--	--
WGNA-SW/SD-09	Neshaminy	SW-09-042816	4/28/2016	11.8 J-	14.9 J-	17 UJ	17 UJ	10 UJ	--	--	--	17 UJ	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-042816	4/28/2016	14.8 J-	16.6 J-	15 UJ	9.49 J-	9.6 UJ	--	--	--	15 UJ	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-081017	8/10/2017	11.9	12.9	7.38 J	4.41 J	2.63 J	--	6.3 U	6.3 U	6.11 J	6.67 J	6.3 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20190725	7/25/2019	8.04	8.12	4.71	2.15 J	1.57 J	0.33 U	0.38 J	0.41 U	4.13	4.47	0.82 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025	10/25/2019	5	5.12	4.29	1.57 J	1.02 J	0.4 U	0.32 J	0.4 U	3.9 J	4.83	0.4 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025-D	10/25/2019	5.63	6.92	5.29	1.92 J	1.09 J	0.45 U	0.22 J	0.45 U	4.25 J	4.9	0.45 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200129	1/29/2020	5.96	6.35	4.1 J	2.1 U	0.85 U	0.42 U	0.42 U	0.42 U	2.69 J	3.49 J	0.42 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504	5/4/2020	8.89	9.71	5.12	2.88 J	1.84 J	0.42 U	0.42 J	0.42 UJ	4.47	5.54	0.42 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504-D	5/4/2020	8.49	9.26	4.55	3.14 J	1.75 J	0.42 U	0.42 J	0.42 UJ	4.55	5.93	0.42 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915	9/15/2020	7.82	8.53	5.25	2.29 J	1.55 J	0.72 J	0.4 J	0.42 U	4.72	8.34 J+	0.42 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915-D	9/15/2020	8 J	8.52 J	4.88 J	2.09 J	1.48 J	0.41 J	0.4 J	0.42 UJ	4.23 J	6.85 J	0.42 UJ
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210112	1/12/2021	6	6.66	4.04	2.3 U	1.14 J	0.403 U	0.218 J	0.403 U	2.61 J	3.95 J	0.403 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210316	3/16/2021	5.82	6.26	3.83 J	2.04 J	0.916 J	0.455 U	0.455 U	0.455 U	2.85 J	3.62 J	0.455 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210629	6/29/2021	11.3	15.1	11.3	3.5 J	2.43 J	0.451 U	0.451 U	0.451 U	6.32	11.2	0.451 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210921	9/21/2021	11.6	11.3	9.11	3.56 J	1.6 J	2.17 U	2.17 U	2.17 U	5.97	6.5	2.17 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215	12/15/2021	8.23	6.26	4.83	0.938 J	2.26 U	2.26 U	2.26 U	2.26 U	4.05 J	7.76	2.26 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215-D	12/15/2021	8.16	6.04	4.16 J	1.69 J	2.21 U	2.21 U	2.21 U	2.21 U	5.51	6.02	2.21 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220322	3/22/2022	9.14	9.98	12.9 J	3.09 J	2.14 J	2.15 U	2.15 U	2.15 U	5.4	14.1 J	2.15 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220615	6/15/2022	9.37	10.8	5	2.17 J	1.86 J	2.35 U	0.763 J	2.35 U	5.61	7.62	2.35 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220915	9/15/2022	6.68	6.47	2.93 J	2.36 J	2.15 J	2.17 U	2.17 U	2.17 U	6.51	9.4	2.17 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230606	6/6/2023	10.5	9.19	4.27 J	3.1 J	2.02 J	2.23 U	2.23 U	2.23 U	5.13	7.68	2.23 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230920	9/20/2023	8.18	7.65	3.13 J	1.87 J	2.37 J	2.22 U	0.812 J	2.22 U	6.64	10.2 J+	0.667 J
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240103	1/3/2024	6.9	6.52	3.7	2.23	1.42 J	1.36 U	0.304 J	0.548 U	2.52	4.47	0.37 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240320	3/20/2024	8.18	6.53	4.84	2.53	1.82	1.38 U	0.346 J	0.556 U	2.87	4.49	0.375 U
WGNA-SW/SD-11	Neshaminy	SW-11-042816	4/28/2016	15.3 J-	60.9 J-	8.15 J-	37.9 J-	9.6 UJ	--	--	--	7.93 J-	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-042716	4/27/2016	14.5 J	77.3	17 U	32.3	10 U	--	--	--	17 U	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-081017	8/10/2017	21.7	62.4	10.4	37.9	3.07 J	--	6.3 U	6.3 U	7.68 J	11.3	6.3 U
WGNA-SW/SD-13	Neshaminy	SW-13-022315	2/23/2015	19.8	97.5	17 U	47.8	17 U	--	--	--	10.1	--	--
WGNA-SW/SD-13	Neshaminy	SW-13-042716	4/27/2016	14.5 J	68.9	16 U	34.4	10 U	--	--	--	16 U	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-022315	2/23/2015	19.3	116	16 U	57.8	16 U	--	--	--	10.3	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-042716	4/27/2016	14.1 J	75.7	17 U	47.3	10 U	--	--	--	17 U	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-081017	8/10/2017	21.3	103	11.7	65	3.72 J	--	6.3 U	6.3 U	9.54	15.9	6.3 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20190726	7/26/2019	17.23	87.79 J	10.11	39.14	2.63 J	0.38 U	0.55 J	0.48 UJ	8.16	13.32	0.31 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20191025	10/25/2019	10.59 J	49.82 J	8.14 J	42.02 J	1.92 J	0.41 UJ	0.4 J	0.41 UJ	6.81 J	10.54 J	0.41 UJ
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200129	1/29/2020	9.25	45.73	6.47	23.79	1.58 J	0.4 U	0.31 J	0.4 U	4.56	7.05	0.4 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200130	1/30/2020	9.73	47.66	6.2	24.26	1.7 J	0.42 U	0.24 J	0.42 U	4.64	8.17	0.42 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200504	5/4/2020	13.06	69.25	7.79	31.49	2.74 J	0.42 U	0.52 J	0.42 UJ	6.92	11.57	0.42 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200505	5/5/2020	12.69	57.42	7.91	33.49	2.36 J	0.45 U	0.43 J	0.45 UJ	6.47	11.48	0.45 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200915	9/15/2020	19.2	**155.3**	13.76	94.86	2.44 J	0.59 J	0.8 J	0.4 U	10.61	28 J+	0.23 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200916	9/16/2020	16.25 J	108.47 J	11.08 J	65.24 J	2.13 J	0.9 J	0.63 J	0.42 UJ	7.75 J	21.51 J	0.3 J

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210112	1/12/2021	11	54	7.5	34	1.5 J	--	0.89 U	0.89 U	4.9	10	0.89 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210316	3/16/2021	12	50	8.6	33	1.6 J	--	0.87 U	0.87 U	5	11	0.87 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210629	6/29/2021	19.3	110	19.4	51.3	3.6 J	0.442 U	0.442 U	0.442 U	12	26.7	0.442 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210921	9/21/2021	20.7	111	15.2	69.4	2.16 J	2.17 U	2.17 U	2.17 U	12.9	21.8	2.17 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20211215	12/15/2021	17	76	10	55	2	--	0.89 U	0.89 U	8.6	18	0.89 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220322	3/22/2022	12	57	8.1	37	1.7	--	0.48 J	0.85 U	6.4	13	0.85 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220615	6/15/2022	18.2	**154**	9.15	54.6	4.01 J	2.34 U	1.22 J	2.34 U	10.5	20.7	0.906 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220915	9/15/2022	12.6	89.6	9.01	57.9	2.52 J	2.18 U	2.18 U	2.18 U	10.3	17.8	2.18 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20221206	12/6/2022	13 J	**280 J**	9.4 J	50 J	4.3 J	--	2.2 J	0.84 UJ	6.8 J	13 J	0.96 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230321	3/21/2023	12	67	9.3	44	1.6	--	0.81 U	0.81 U	5.9	12	0.81 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230606	6/6/2023	18.9	114	8.07	55.8	3.84 J	2.33 U	1.28 J	2.33 U	9.53	18.2	0.754 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230920	9/20/2023	12.2	84.4	6.32	52.9	2.63 J	2.1 U	0.879 J	2.1 U	11.1	17.8	0.754 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240103	1/3/2024	10.6	46.7	7.15	31	1.95	1.34 U	0.33 J	0.539 U	4.92	8.63	0.364 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240320	3/20/2024	14.7	54.8	8.63	37.3	2.44	1.42 U	0.422 U	0.57 U	5.51	11.9	0.384 U
WGNA-SW/SD-15	Neshaminy	SW-15-022315	2/23/2015	24.9	**149**	22.1	80.6	17 U	--	--	--	10.8	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-042716	4/27/2016	24.9 J-	138 J-	58.9 J-	83.8 J-	10 UJ	--	--	--	10.4 J-	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-081017	8/10/2017	20.8	103	13.2	63.4	3.67 J	--	6 U	6 U	9.06	15.5	6 U
WGNA-SW/SD-16	Neshaminy	SW-16-022315	2/23/2015	26.8	**158**	44	89.2	16 U	--	--	--	12.13	--	--
WGNA-SW/SD-16	Neshaminy	SW-16-042816	4/28/2016	22.5 J-	137 J-	16 UJ	94.1 J-	10 UJ	--	--	--	9.82 J-	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20190726	7/26/2019	16.16	72.25	10.65	33.31	2.38 J	0.36 U	0.62 J	0.45 U	6.85	14.43	0.91 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20191025	10/25/2019	10.23	44.94	9.35	33.88	1.72 J	0.41 U	0.46 J	0.41 U	6.3	12.11	0.41 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200130	1/30/2020	10.1	50.99	7.48	26.83	1.49 J	0.42 U	0.28 J	0.42 U	4.64	8.94	0.42 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200505	5/5/2020	13.85	60.5	8.69	39.18	2.29 J	0.45 U	0.51 J	0.45 UJ	6.7	12.97	0.45 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200916	9/16/2020	16.28	87.32	15.62	75.56	1.64 J	0.52 J	0.47 J	0.42 U	8.13	32.6	0.42 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112	1/12/2021	11	52	7.7	38	1.4 J	--	0.89 U	0.89 U	4.1	12	0.89 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112-D	1/12/2021	12	58	8.2	39	1.5 J	--	0.84 U	0.84 U	4.7	13	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210316	3/16/2021	12	48	8.4	33	1.5 J	--	0.88 U	0.88 U	5.1	11	0.88 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629	6/29/2021	20.5	86.4	20.2	56.1	2.35 J	0.442 U	0.442 U	0.442 U	8.77	33.8	0.442 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629-D	6/29/2021	18.4	91.2	19.8	58.8	2.58 J	0.442 U	0.442 U	0.442 U	10	38.7	0.442 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210921	9/21/2021	19.4	106	18.1	63.8	2.79 J	2.19 U	2.19 U	2.19 U	10.3	27.6	2.19 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20211215	12/15/2021	17	69	10	50	2	--	0.84 U	0.84 U	8.1	22	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220322	3/22/2022	13	53	8.7	35	1.9	--	0.84 U	0.84 U	6.1	15	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220615	6/15/2022	16.7	101	9.45	47.9	2.14 J	2.23 U	2.23 U	2.23 U	8.33	18.4	2.23 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220915	9/15/2022	18.4	72.5	9.29	51	3.12 J	2.12 U	2.12 U	2.12 U	9.49	22.3	2.12 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206	12/6/2022	11 J	54 J	9.6 J	39 J	1.5 J	--	0.85 UJ	0.85 UJ	6.4 J	14 J	0.85 UJ
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206-D	12/6/2022	11 J	52 J	10 J	41 J	1.5 J	--	0.83 UJ	0.83 UJ	6.2 J	13 J	0.83 UJ
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230321	3/21/2023	10	50	8.8	37	1.4 J	--	0.84 U	0.84 U	5.3	13	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606	6/6/2023	20.5	**304**	11.2	109	4.28 J	2.19 U	1.49 J	2.19 U	14.2	34.2	0.874 J
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606-D	6/6/2023	20	**215**	9.61	96.7	3.24 J	2.31 U	0.904 J	2.31 U	14.7	29.4	2.31 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230920	9/20/2023	17	111	7.39	49.7	3.32 J	2.28 U	1.18 J	2.28 U	9.05	19.6	0.909 J
WGNA-SW/SD-17	Neshaminy	SW-17-022415	2/24/2015	35.6	**216**	51.4	140	16 U	--	--	--	13.5	--	--
WGNA-SW/SD-17	Neshaminy	SW-17-042816	4/28/2016	25.1 J-	**155 J-**	49.5 J-	106 J-	9.6 UJ	--	--	--	11.6 J-	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200505	5/5/2020	14.6	77.07	10.71	49.16	2.09 J	0.45 U	0.48 J	0.45 UJ	7.93	17.41	0.45 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200916	9/16/2020	20.14	**141.92**	18.57	93.73	1.84 J	0.45 J	0.46 J	0.46 U	10.26	47.28	0.46 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210112	1/12/2021	13	100	8.6	50	2.1	--	0.48 J	0.84 U	5.3	14	0.84 U

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210316	3/16/2021	12	57	9.2	41	1.6 J	--	0.86 U	0.86 U	5.5	12	0.86 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629	6/29/2021	19	75	10	51	2.2	--	0.65 J	0.85 U	8.9	26	0.85 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629-D	6/29/2021	19	80	10	51	2.3	--	0.57 J	0.84 U	8.6	27	0.84 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210921	9/21/2021	21	110	13	71	2.5	--	1.4 J	0.84 U	10	30	0.84 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20211215	12/15/2021	14	56	8.1	40	1.5 J	--	0.85 U	0.85 U	6.4	18	0.85 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220322	3/22/2022	14	64	10	45	2	--	0.83 U	0.83 U	7	17	0.83 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220615	6/15/2022	17	97	11	53	2.8	--	0.77 R	0.92 R	8.6	20	0.92 R
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220915	9/15/2022	15 J	56 J	12 J	49 J	2.2 J	--	0.65 J	0.86 UJ	9.5 J	23 J	0.86 UJ
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20221206	12/6/2022	11 J	52 J	9.9 J	44 J	1.4 J	--	0.86 UJ	0.86 UJ	6.4 J	15 J	0.86 UJ
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230321	3/21/2023	13	68	9.8	45	1.6 J	--	0.83 U	0.83 U	6.3	13	0.83 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230606	6/6/2023	18	90	12	61	2.4	--	0.59 J	0.81 U	9.1	24	1.2 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230920	9/20/2023	12.3	91.2	5.73	39.8	2.76 J	2.3 U	1.12 J	2.3 U	8.07	17.7	0.853 J
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230921	9/21/2023	10.4	56.1	6.57	36	2.54 J	2.28 U	2.16 U	2.16 U	9.84	19.4	2.16 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240103	1/3/2024	12.9	74.9	8.46	45.4	2.13	1.32 U	0.37 J	0.53 U	5.64	13.7	0.357 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240320	3/20/2024	15	62.1	9.25	43.7	2.36	1.53 U	0.455 U	0.614 U	6.48	13.4	0.414 U
WGNA-SW/SD-18	Neshaminy	SW-18-022415	2/24/2015	46.4	**293**	55.4	173	16 U	--	--	--	15.6	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-042816	4/28/2016	23.9 J-	**162 J-**	54.7 J-	107 J-	9.6 UJ	--	--	--	10.2 J-	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-081017	8/10/2017	20.7	115	15.5	73.5	3.63 J	--	6 U	6 U	9.88	18.3	6 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20190726	7/26/2019	17.74	78.65	10.67	38.97	2.75 J	0.36 U	0.87 J	0.32 J	7.99	17.31	0.5 J
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200130	1/30/2020	12.89	88.78	9.06	40.27	1.71 J	0.42 U	0.31 J	0.42 U	5.7	13.53	0.42 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200505	5/5/2020	20.91	135.86	13.36	68.99	2.42 J	0.42 U	0.49 J	0.42 UJ	8.93	25.57	0.42 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200916	9/16/2020	15.9	104.51	15.89	78	1.65 J	0.47 J	0.44 J	0.42 U	8.37	33.88	0.42 U
WGNA-SW/SD-19	Neshaminy	SW-19-022415	2/24/2015	67	**396**	67.1	234	17 U	--	--	--	19.4	--	--
WGNA-SW/SD-19	Neshaminy	SW-19-042816	4/28/2016	40.3 J-	**265 J-**	84 J	160 J-	9.6 UJ	--	--	--	14.5 J-	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20190726	7/26/2019	28.7	**179.23**	17.52	58.19	3.08 J	0.34 U	0.81 J	0.42 U	11.64	32.6	0.27 J
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20191025	10/25/2019	17.04	132.73	13.45	64.61	2.1 J	0.43 U	0.62 J	0.43 U	9.64	26.56	0.43 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200130	1/30/2020	19.74	**154.48**	13.85	68.92	1.98 J	0.42 U	0.32 J	0.42 U	8.44	25.18	0.42 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200505	5/5/2020	24.48	**188.93**	15.51	83.34	2.89 J	0.41 U	0.62 J	0.41 UJ	10.84	32.24	0.41 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200916	9/16/2020	19.75	**143.77**	17.85	93.42	1.81 J	0.42 J	0.54 J	0.43 U	10.35	45.58	0.43 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210112	1/12/2021	15	91	10	56	1.7	--	0.87 U	0.87 U	6.3	23	0.87 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210316	3/16/2021	15	86	11	53	1.9	--	0.88 U	0.88 U	6.6	25	0.88 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210629	6/29/2021	23	130	12	70	2.4	--	0.58 J	0.84 U	11	42	0.84 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921	9/21/2021	24	**160**	15	83	3	--	1.5 J	0.83 U	12	34	0.83 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921-D	9/21/2021	23	**150**	14	83	2.8	--	1.4 J	0.84 U	12	34	0.84 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20211215	12/15/2021	16	69	9.9	47	1.5 J	--	0.83 U	0.83 U	6.8	23	0.83 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220322	3/22/2022	15	87	10	50	1.9	--	0.44 J	0.88 U	7.4	21	0.88 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220615	6/15/2022	18	**150 J**	12	61	2.8 UJ	--	0.82 R	0.82 R	9.2	25	0.82 R
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220915	9/15/2022	14 J	71 J	11 J	51 J	2 J	--	0.64 J	0.86 UJ	9.1 J	28 J	0.86 UJ
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20221206	12/6/2022	14 J	86 J	11 J	58 J	1.5 J	--	0.83 UJ	0.83 UJ	7.6 J	19 J	0.83 UJ
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230321	3/21/2023	14	83	11	56	1.6 J	--	0.85 U	0.85 U	7.6	17	0.85 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606	6/6/2023	22	130	15	80	2.9	--	0.66 J	0.81 U	11	32	1.2 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606-D	6/6/2023	23	130	14	74	2.5	--	0.62 J	0.82 U	9.9	32	1.2 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921	9/21/2023	12.8	96.9	7.3	50.6	2.63 J	2.33 U	2.14 U	2.14 U	11.2	23.8	0.914 J
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921-D	9/21/2023	12.2	106	7.29	50	2.78 J	2.27 U	2.13 U	2.13 U	11.9	23.5	1.03 J
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240103	1/3/2024	13.4	61.6	7.87	43.2	1.82	1.32 U	0.395 U	0.533 U	5.23	12.1	0.359 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240319	3/19/2024	18.1	92.4	9.96	54	2.52	1.41 U	0.497 J	0.569 U	6.91	18	0.384 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240320	3/20/2024	18.4	90	10.5	50.9	2.47	1.5 U	0.447 U	0.603 U	7.24	16	0.407 U
WGNA-SW/SD-20	Neshaminy	SW-20-022415	2/24/2015	60.9	**379**	61.5	227	16 U	--	--	--	18	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-042616	4/26/2016	44.2	**371**	48	162	10 U	--	--	--	17.3 J	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-081017	8/10/2017	35.1	**317**	25.8	137	4.52 J	--	6 U	6 U	14.7	37.1	6 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20190726	7/26/2019	29.03	**210.2**	18.01	74.34	3.16 J	0.33 U	0.71 J	0.42 U	12.04	33.11	0.27 J
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20191025	10/25/2019	17.39	106.92	13.37	59.5	1.97 J	0.46 U	0.43 J	0.46 U	9.61	26.02	0.46 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200130	1/30/2020	18.62	127.15	13.18	64	1.91 J	0.42 U	0.33 J	0.42 U	7.73	22.83	0.42 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200505	5/5/2020	22.79	**169.39**	13.95	70.11	2.5 J	0.42 U	0.54 J	0.42 UJ	9.33	28.61	0.42 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200916	9/16/2020	20.35	**142.71**	18.32	96.87	1.87 J	0.44 J	0.44 J	0.42 U	10.63	45.91	0.42 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210111	1/11/2021	15	100	10	60	1.7	--	0.86 U	0.86 U	6.5	22	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210315	3/15/2021	15	95	11	50	1.9	--	0.87 U	0.87 U	6.7	23	0.87 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210316	3/16/2021	15	77	11	50	1.7	--	0.86 U	0.86 U	6.7	23	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210629	6/29/2021	23	120	12	72	2.7	--	0.66 J	0.85 U	12	43	0.85 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210921	9/21/2021	25	130	15	83	3.1	--	1.2 J	0.82 U	12	35	0.82 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211214	12/14/2021	14	66	9.2	47	1.4 J	--	0.83 U	0.83 U	7.5	20	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211215	12/15/2021	16	66	10	50	1.6 J	--	0.86 U	0.86 U	7.7	23	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220321	3/21/2022	15	78	10	48	1.9	--	0.44 J	0.86 U	8.2	21	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220322	3/22/2022	15	77	11	49	2	--	0.48 J	0.83 U	7	20	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220615	6/15/2022	19	120	12	60	2.7	--	0.88 J	0.91 R	10	27	0.91 R
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220915	9/15/2022	15 J	73 J	12 J	57 J	2.1 J	--	0.66 J	0.83 UJ	9.9 J	27 J	0.83 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221205	12/5/2022	14 J	120 J	11 J	58 J	2 J	--	0.66 J	0.88 UJ	7.8 J	19 J	0.88 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221206	12/6/2022	15 J	**170 J**	12 J	61 J	2.5 J	--	0.73 J	0.86 UJ	8.3 J	21 J	0.86 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230320	3/20/2023	15	89	12	58	1.6	--	0.82 U	0.82 UJ	7.7	18	0.82 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230321	3/21/2023	15	120	11	58	2.1	--	0.45 J	0.85 U	7.6	20	0.85 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230606	6/6/2023	23	130	15	78	2.7	--	0.63 J	0.84 U	12	33	1.3 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230921	9/21/2023	13.9	93.8	7.31	44.5	2.85 J	2.35 U	2.22 U	2.22 U	10.9	21.6	1.03 J
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240103	1/3/2024	14.7	78.8	8.99	47.8	1.95	1.34 U	0.336 J	0.54 U	6.43	14	0.364 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240319	3/19/2024	19.7	91.8	10.7	53.1	2.89	1.41 U	0.421 U	0.568 U	7.26	17.9	0.383 U
WGNA-SW/SD-21A	Neshaminy	SW-21A-042716	4/27/2016	123	**3500**	165	**1910**	23.7	--	--	--	102	--	--
WGNA-SW/SD-21A	Neshaminy	SW-21A-080717	8/7/2017	41.1	**627**	36.4	485	11.3	--	6 U	6 U	36.1	80.9	6 U
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20190726	7/26/2019	102.12	**1299.6**	68.87	705.6	19.19 J	0.33 J	4.17 J	0.45 U	75.91	166.74	1.14 J
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20191025	10/25/2019	42.82	**783.55**	103.97	1156.6	7.66	0.35 J	0.96 J	0.22 J	44.93	106.76	0.49 J
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20200505	5/5/2020	61.45	**695.73**	45.1	445.91	11.84	0.46 U	1.33 J	0.46 UJ	66.06	142.35	0.44 J
WGNA-SW/SD-21B	Neshaminy	SW-21B-042716	4/27/2016	84.6 J-	**1070 J-**	107 J-	1160 J-	13 J-	--	--	--	69.6 J-	--	--
WGNA-SW/SD-22	Neshaminy	SW-22-022515	2/25/2015	78.8	**1300**	111	967	13.1	--	--	--	51.6	--	--
WGNA-SW/SD-22A	Neshaminy	SW-22A-022515	2/25/2015	57.9	**1130**	120	1180	10.6	--	--	--	39.9	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-022515	2/25/2015	100	**1730**	144	**1270**	14.6	--	--	--	56.6	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-042716	4/27/2016	87 J-	**1350 J-**	125 J-	**1780 J-**	14.6 J-	--	--	--	107 J-	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716	4/27/2016	109	**624**	90.2	743	10.3 J	--	--	--	43.2	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716-D	4/27/2016	100 J-	**734 J-**	116 J-	753 J-	10.4 J-	--	--	--	44.8 J-	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717	8/7/2017	17.9	**190**	16.6	156	4.38 J	--	6 U	6 U	12.8	24.4	6 U
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717-D	8/7/2017	19.1	**188**	16.2	157	4.2 J	--	5.8 U	5.8 U	11.9	23	5.8 U
WGNA-SW/SD-23B	Neshaminy	SW-23B-042716	4/27/2016	81.5	**1370**	86.1	1110	14.7 J	--	--	--	67.5	--	--
WGNA-SW/SD-24A	Neshaminy	SW-24A-042716	4/27/2016	10.6 J	21.7	17 U	14.2 J	10 U	--	--	--	17 U	--	--

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Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-24B	Neshaminy	SW-24B-042716	4/27/2016	25.7	33.3	15 U	23.4	9.6 U	--	--	--	7.94 J	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-022315	2/23/2015	320 U	**373**	139	144	160 U	--	--	--	160 U	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-042716	4/27/2016	63.2 J-	**263 J-**	240 J-	144 J-	10 UJ	--	--	--	20.7 J-	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-081017	8/10/2017	22.1	18.3	16.9	9.19	3.11 J	--	6.3 U	6.3 U	6.93 J	23.8	6.3 U
WGNA-SW/SD-26	Neshaminy	SW-26-022715	2/27/2015	**972**	**5230**	382	**1980**	23.9	--	--	--	155	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-042816	4/28/2016	**548 J-**	**4050 J-**	219 J-	**1570 J-**	24.8 J-	--	--	--	133 J-	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-080717	8/7/2017	38.4	**539**	20.6	170	3.37 J	--	6 U	6 U	15	47.5	6 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20190726	7/26/2019	163.54	**2599.61**	104.09	590.61	8.62	0.34 U	1.9 J	0.26 J	70.05	243.08	0.8 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20191025	10/25/2019	111	**1386.91**	67.75	398.55	5.59	0.28 J	0.99 J	0.4 U	51.41	264.64	0.22 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130	1/30/2020	201.64	**3510.41**	115.66	718.5	10.48	0.24 J	1.93 J	0.42 U	80.57	378.18	0.25 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130-D	1/30/2020	**257.11**	**3523.98**	124.48	743.3	11.19	0.24 J	1.94 J	0.46 U	79.3	416.67	0.28 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200505	5/5/2020	**325.62**	**3549.63**	172.78	1108.58	12.25	0.45 U	2.72 J	0.23 J	109.36	389.74	0.5 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200916	9/16/2020	25.54	**225.5**	12.38	70.58	0.88 U	0.44 U	0.44 U	0.44 U	14.32	152.05	0.44 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210112	1/12/2021	35	**350**	15	100	1.7	--	0.85 U	0.85 U	15	150	0.85 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316	3/16/2021	36	**260**	13	83	1.7	--	0.87 U	0.87 U	20	250	0.87 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316-D	3/16/2021	36	**260**	13	80	1.7 J	--	0.93 U	0.93 U	20	250	0.93 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210629	6/29/2021	83	**680**	33	220	3.4	--	0.5 J	0.83 U	34	280	0.83 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210921	9/21/2021	35	**420**	17	130	2.3	--	0.75 J	0.87 U	15	65	0.87 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20211215	12/15/2021	41	**400**	20	120	2	--	0.86 U	0.86 U	12	47	0.86 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220322	3/22/2022	36	**430**	20	130	1.9	--	0.43 J	0.85 U	14	79	0.85 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220615	6/15/2022	140	**1600**	73	470	7.8	--	1.5 J	0.84 R	54	220	0.84 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220915	9/15/2022	10 J	110 J	6.3 J	36 J	0.5 J	--	0.86 UJ	0.86 UJ	4.2 J	41 J	0.86 UJ
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20221206	12/6/2022	25 J	**350 J**	13 J	87 J	1.3 J	--	0.9 UJ	0.9 UJ	9.5 J	38 J	0.9 UJ
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230321	3/21/2023	64	**740 J**	35	200	3.3	--	0.64 J	0.82 U	24	97 J	0.82 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230606	6/6/2023	40	**320**	21	110	1.4 J	--	0.9 U	0.9 U	14	91	1.4 U
WGNA-SW/SD-27	Neshaminy	SW-27-022315	2/23/2015	191	**1990**	81.9	555	32 U	--	--	--	46.8	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-022315-D	2/23/2015	201	**2020**	84.7	574	33 U	--	--	--	49.4	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-042816	4/28/2016	**351 J-**	**3270 J-**	184 J-	1170 J-	19.7 J-	--	--	--	95.9 J-	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20190726	7/26/2019	134.04	**2070.38**	94.66	581.75	8.95	0.21 J	1.72 J	0.41 UJ	71.69	232.15	0.51 J
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20191025	10/25/2019	105.38	**1307.14**	76.54	482.39	5.92	0.29 J	0.86 J	0.45 U	59.38	264.11	0.45 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200130	1/30/2020	164.84	**1910.36**	97.53	540.52	8.62	0.26 J	1.35 J	0.42 U	67.54	306.56	0.21 J
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505	5/5/2020	181.89	**2410.41**	107.31	779.57	8.8	0.47 U	1.62 J	0.47 UJ	70.1	260.78	0.47 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505-D	5/5/2020	196.74	**2348.42**	117.86	905.98	9.75	0.41 U	1.46 J	0.41 UJ	80.54	307.73	0.18 J
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916	9/16/2020	55.33	**687.64**	31.8	240.84	3.15 J	0.24 J	0.57 J	0.45 U	30.78	187.59	0.45 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916-D	9/16/2020	56.95	**712.39**	32.92	244.05	3.27 J	0.28 J	0.58 J	0.44 U	32.5	188.13	0.44 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210112	1/12/2021	51	**430**	26	190	2.8	--	0.48 J	0.86 U	21	140	0.86 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210316	3/16/2021	48	**430**	25	180	3.3	--	0.47 J	0.93 U	25	210	0.93 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210629	6/29/2021	58	**560**	29	230	3.4	--	0.48 J	0.87 U	39	240	0.87 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210921	9/21/2021	47	**570**	26	230	3.7	--	0.99 J	0.87 U	27	95	0.87 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215	12/15/2021	37	**320**	24	170	2.5	--	0.85 U	0.85 UJ	19	68	0.85 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215-D	12/15/2021	47	**400**	31	220	3.1	--	0.42 J	0.84 U	24	86	0.84 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322	3/22/2022	40	**430**	26	210	2.8	--	0.86 U	0.86 U	22	100	0.86 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322-D	3/22/2022	43	**450**	28	210	3	--	0.45 J	0.84 U	21	91	0.84 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615	6/15/2022	27	**320**	17	120	2.1	--	0.85 U	0.85 UJ	14	63	0.85 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615-D	6/15/2022	28	**310**	17	120	2	--	0.48 J	0.93 U	14	63	0.93 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915	9/15/2022	19 J	**210 J**	12 =	80 J	0.87 J	--	0.83 R	0.83 R	9.1 J	59 =	0.83 R
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915-D	9/15/2022	16 J	**160 J**	11 J	69 J	0.97 J	--	0.82 UJ	0.82 UJ	8.1 J	53 J	0.82 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20221206	12/6/2022	42 J	**590 J**	25 J	180 J	2.6 J	--	0.6 J	0.84 UJ	18 J	69 J	0.84 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321	3/21/2023	41	**440 J**	25	180	2.8	--	0.49 J	0.85 U	20	75 J	0.85 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321-D	3/21/2023	41	**450 J**	24	190	2.7	--	0.41 J	0.82 U	21	71 J	0.82 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230606	6/6/2023	62	**1000**	38	260	5.5	--	1 J	0.86 U	33	130	1.3 U
WGNA-SW/SD-28	Neshaminy	SW-28-022415	2/24/2015	**494**	**3140**	277	**1400**	16.9	--	--	--	90.4	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-042816	4/28/2016	**312 J-**	**2600 J-**	169 J-	1180 J-	15.8 J-	--	--	--	92 J-	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-081017	8/10/2017	**275**	**3800**	213	**1240**	15.3	--	5.8 U	5.8 U	106	384	5.8 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726	7/26/2019	163.83	**2462.08**	96.64	677.26	8.73	0.38 U	1.9 J	0.47 U	66.78	255.13	0.6 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726-D	7/26/2019	156.86	**2328.75**	97.28	557.78	9.12	0.36 U	1.89 J	0.45 U	68.16	229.6	0.58 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20191025	10/25/2019	121.39 J	**1589.49 J**	78.72 J	492.9 J	5.86	0.29 J	0.93 J	0.4 U	61.95	271.82 J	0.18 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200130	1/30/2020	149.84	**2518.2**	82.79	669.78	8.47	0.22 J	1.26 J	0.42 U	55.68	249.79	0.42 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200505	5/5/2020	204.41	**2422.31**	115.59	887.56	9.5	0.43 U	1.47 J	0.43 UJ	78.25	317.83	0.22 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200916	9/16/2020	62.15	**655.99**	36.2	235.47	3.41 J	0.28 J	0.59 J	0.42 U	36.1	183.26	0.42 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210112	1/12/2021	55	**620**	27	200	3.4	--	0.79 J	0.88 U	20	150	0.88 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210316	3/16/2021	47	**440**	25	170	3.1	--	0.49 J	0.91 U	24	210	0.91 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210629	6/29/2021	20	85	11	57	2.3	--	0.55 J	0.86 U	9	27	0.86 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210921	9/21/2021	47	**600**	27	240	4.2	--	0.88 J	0.89 U	30	99	0.89 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20211215	12/15/2021	35	**340**	24	170	2.6	--	0.87 U	0.87 U	19	70	0.87 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220322	3/22/2022	46	**630**	32	230	4.1	--	0.59 J	0.82 U	24	95	0.82 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220615	6/15/2022	29	**450**	18	120	2.5	--	0.5 J	0.82 R	15	65	0.82 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220915	9/15/2022	17 J	**190 J**	12 J	73 J	1.1 J	--	0.84 UJ	0.84 UJ	8.7 J	56 J	0.84 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20221206	12/6/2022	41 J	**580 J**	27 J	190 J	2.9 J	--	0.56 J	0.83 UJ	19 J	73 J	0.83 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230321	3/21/2023	44	**470 J**	27	200	3.1	--	0.57 J	0.82 U	22	85 J	0.82 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230606	6/6/2023	56	**570**	36	280	3.9	--	0.5 J	0.82 U	34	120	1.2 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230921	9/21/2023	22.7	**396**	13.5	117	2.87 J	2.36 U	2.27 U	2.27 U	16.8	58.2	2.27 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240103	1/3/2024	38.5	**365**	21.4	165	2.54	1.32 U	0.535 J	0.532 U	18.4	62.9	0.359 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240320	3/20/2024	41.2	**360**	19.9	151	3.18	1.46 U	0.434 U	0.586 U	17.4	62.5	0.395 U
WGNA-SW/SD-29	Neshaminy	SW-29-022415	2/24/2015	33 U	21.6	17 U	17 U	17 U	--	--	--	17 U	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816	4/28/2016	13 J-	8.46 J-	11.8 J-	15 UJ	9.6 UJ	--	--	--	13.3 J-	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816-D	4/28/2016	13.5 J-	9.62 J-	11.4 J-	16 UJ	10 UJ	--	--	--	12.9 J-	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-042616	4/26/2016	14.4 J	10.3 J	8.91 J	15 U	9.6 U	--	--	--	17.2 J	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-081017	8/10/2017	13.7	12.5	10.8	6 U	2.34 J	--	6 U	6 U	5.24 J	9.1	6 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20190726	7/26/2019	13.25	12.9	12.21	3.16 J	2.36 J	0.33 U	0.63 J	0.42 U	5.59	9.72	0.26 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20191025	10/25/2019	6.61	6.04	7.33	1.47 J	1.17 J	0.42 U	0.42 J	0.42 U	3.03 J	6.4	0.42 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200130	1/30/2020	6.88	5.81	5.44	1.82 U	1.09 J	0.42 U	0.25 J	0.42 U	2.47 J	4.92	0.42 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200505	5/5/2020	7.87	8.23	6.64	2.57 J	1.43 J	0.42 U	0.42 J	0.42 UJ	3.35 J	6.99	0.42 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200916	9/16/2020	10.21	6.96	15.78	1.85 J	1.45 J	1.55 J	0.42 J	0.42 U	4.18 J	16.23	0.42 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210111	1/11/2021	5.7	5.2	5.3	2	0.83 J	--	0.88 U	0.88 U	1.9	5.3	0.88 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112	1/12/2021	5.8	4.9	5.2	1.9	0.81 J	--	0.87 U	0.87 U	1.8	5.5	0.87 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112-D	1/12/2021	5.7	4.9	5.5	1.8	0.85 J	--	0.86 U	0.86 U	1.9	5.7	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210315	3/15/2021	5.8	5.5	5.2	1.9	0.97 J	--	0.86 U	0.86 U	2.1	5.6	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210629	6/29/2021	16	9.4	9.1	2.5	2	--	0.48 J	0.9 U	5	15	0.9 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210921	9/21/2021	15	7.7	12	2.6	1.6 J	--	1.6 J	0.83 U	4.7	14	0.83 U

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Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20211214	12/14/2021	11	6.3	7.5	1.9	1.2 J	--	0.85 U	0.85 U	3.3	10	0.85 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321	3/21/2022	9.3	9.8	6.5	2.5	1.8	--	0.55 J	0.87 U	3.7	8.7	0.87 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321-D	3/21/2022	8.5	7	6.9	2.7	1.4 J	--	0.47 J	0.86 U	3.7	9	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220615	6/15/2022	12	13 J	9.3	2.2	2.5	--	0.97 R	0.83 R	4.2	12	0.83 R
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220915	9/15/2022	10 J	6.6 J	10 J	1.7 J	1.7 J	--	0.53 J	0.83 UJ	3.7 J	9.8 J	0.83 UJ
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20221205	12/5/2022	7.1 J	12 J	6.5 J	1.8 J	1.8 J	--	0.87 J	0.86 UJ	2.9 J	6.1 J	0.86 UJ
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230320	3/20/2023	6.5	5.3	6.3	2	0.88 J	--	0.82 U	0.82 U	2.4	7.2	0.82 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230606	6/6/2023	12	7.5	17	2.5	1.2 J	--	0.55 J	0.81 U	3.5	17	1.2 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230921	9/21/2023	7.83	6.64	5.54	2.35 J	2.22 J	2.28 U	2.16 U	2.16 U	5.49	8.7	2.16 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240103	1/3/2024	5.4	4.9	5.23	1.58	0.969 J	1.35 U	0.218 J	0.543 U	2.11	5.4	0.366 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240319	3/19/2024	8.01	6.74	5.84	2.39	1.64	1.46 U	0.436 U	0.589 U	2.52	7.87	0.397 U
WGNA-SW/SD-31	Neshaminy	SW-31-042616	4/26/2016	36.4	**228**	37.1	105	9.6 U	--	--	--	17.4 J	--	--
WGNA-SW/SD-31	Neshaminy	SW-31-081017	8/10/2017	25.6	**176**	17.7	74.2	3.3 J	--	6 U	--	10.4	23.7	6 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20190726	7/26/2019	17.53	91.16	13.19	32.75	2.31 J	0.34 U	0.63 J	0.42 U	7.8	19.4	0.26 J
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20191025	10/25/2019	10.64	44.77	10.24	21.89	1.7 J	0.44 U	0.7 J	0.44 U	5.63	13.88	0.28 J
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200130	1/30/2020	15.25	116.8	10.76	48.33	1.66 J	0.42 U	0.3 J	0.42 U	6.62	19.07	0.42 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200505	5/5/2020	23.43	**157.8**	14.67	73.94	2.79 J	0.42 U	0.65 J	0.42 UJ	10.03	27.59	0.42 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200916	9/16/2020	18.27	114.69	16.65	74.56	1.8 J	0.71 J	0.44 J	0.44 U	9.01	35.26	0.44 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210111	1/11/2021	17	92	10	60	1.6 J	--	0.85 U	0.85 U	6.4	24	0.85 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210315	3/15/2021	15	88	11	53	1.8	--	0.9 U	0.9 U	6.9	24	0.9 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210628	6/28/2021	19	75 J	11	40 J	2.4	--	0.52 J	0.89 U	9	29	0.89 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210629	6/29/2021	19	83	11	45	2.3	--	0.61 J	0.87 U	9.8	32	0.87 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210920	9/20/2021	20	67	14	41	2.5	--	1.2 J	0.83 U	7.8	23	0.83 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220614	6/14/2022	15	63	9.8	31	2.6	--	0.79 J	0.81 U	7.5	20	0.81 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220615	6/15/2022	17	64	11	32	2.4	--	0.71 J	0.82 U	7.4	21	0.82 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220915	9/15/2022	12 J	20 J	9.1 J	13 J	1.7 J	--	0.52 J	0.93 UJ	4.5 J	13 J	0.93 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220916	9/16/2022	12 J	17 J	11 J	8.6 J	1.4 J	--	0.72 J	0.86 UJ	4 J	12 J	0.86 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20221205	12/5/2022	10 J	44 J	9.4 J	33 J	1.4 J	--	0.83 UJ	0.83 UJ	5.4 J	14 J	0.83 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230320	3/20/2023	13	77	10	44	1.5 J	--	0.81 U	0.81 UJ	6.2	16	0.81 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230605	6/5/2023	20	74	14	48	1.9	--	0.62 J	0.8 U	7.6	27	1.2 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230606	6/6/2023	20	81	16	43	2.2	--	0.89 J	0.84 U	7.4	26	1.3 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230921	9/21/2023	14.7	85.4	7.34	42.1	2.85 J	2.31 U	2.16 U	2.16 U	9.69	18.8	2.16 U
WGNA-SW/SD-32	Neshaminy	SW-32-042616	4/26/2016	34.3	**210**	42	104	10 U	--	--	--	17.9 J	--	--
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200505	5/5/2020	17.27	91.56	10.01	38.67	2.26 J	0.46 U	0.45 J	0.46 UJ	7.15	16.24	0.46 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200916	9/16/2020	19.45	94.55	16.95	50.45	1.79 J	1.03 J	0.47 J	0.43 U	8	30.64	0.43 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210111	1/11/2021	12	72	8.3	36	1.5 J	--	0.86 U	0.86 U	4.7	16	0.86 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210628	6/28/2021	23	100	13	52	2.4	--	0.7 J	0.84 U	10	31	0.84 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210920	9/20/2021	27	100	15	66	2.6	--	1 J	0.84 U	10	28	0.84 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210921	9/21/2021	24	100	15	63	2.6	--	1.2 J	0.83 U	9.7	31	0.83 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20211214	12/14/2021	14	81	8.9	29	1.6 J	--	0.54 J	0.87 U	5.3	16	0.87 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20220321	3/21/2022	13	46	7.9	26	1.8	--	0.43 J	0.85 U	5.9	13	0.85 U
WGNA-SW/SD-33	Neshaminy	SW-33-022415	2/24/2015	35.6	**199**	30.1	99.8	16 U	--	--	--	11.23	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-022415-D	2/24/2015	37.13	**210**	34.9	104	16 U	--	--	--	11.23	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-042616	4/26/2016	31.6	**181**	26.6	95.2	10 U	--	--	--	16.6 J	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20200505	5/5/2020	15.41	85.04	10.88	35.8	2.15 J	0.43 U	0.51 J	0.43 UJ	6.68	18.13	0.43 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210111	1/11/2021	13	65	8.8	39	1.4 J	--	0.86 U	0.86 U	5.2	17	0.86 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210628	6/28/2021	24	110	12	55	2.7	--	0.68 J	0.83 U	11	33	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210920	9/20/2021	23	100	15	66	2.8	--	1.1 J	0.84 U	9.8	29	0.84 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214	12/14/2021	17	68 J	11	36	1.7	--	0.83 U	0.83 U	6.8	20	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214-D	12/14/2021	15	48	8.9	29	1.4 J	--	0.84 U	0.84 U	5.6	17	0.84 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220321	3/21/2022	14	43	8.8	27	1.8	--	0.86 U	0.86 U	5.4	14	0.86 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220614	6/14/2022	19	93	11	39	2.9	--	0.99 J	0.83 UJ	7.7	20	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916	9/16/2022	17 J	57 J	12 J	35 J	2 J	--	0.67 J	0.83 UJ	7.4 J	20 J	0.83 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916-D	9/16/2022	18 J	58 J	14 J	42 J	2 J	--	0.66 J	0.83 UJ	7.8 J	23 J	0.83 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20221205	12/5/2022	11 J	50 J	8.7 J	27 J	1.6 J	--	0.54 J	0.84 UJ	5.9 J	12 J	0.84 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320	3/20/2023	12	57 J	8.8	34	1.3 J	--	0.85 R	0.85 U	4.8	14	0.85 R
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320-D	3/20/2023	12	55	9.4	37	1.3 J	--	0.87 U	0.87 U	6	17	0.87 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230605	6/5/2023	23	110	17	53	2.2	--	0.64 J	0.83 U	8.4	27	1.2 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230921	9/21/2023	12.6	60.7	6.5	29.6	2.62 J	2.47 U	2.28 U	2.28 U	8.32	15.9	2.28 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240103	1/3/2024	12.7	48	7.59	29.8	1.56	1.35 U	0.403 U	0.544 U	4.45	10.7	0.367 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240319	3/19/2024	16.7	70.4	8.95	39.3	2.14	1.43 U	0.427 U	0.577 U	5.78	16.5	0.389 U
WGNA-SW/SD-34	Neshaminy	SW-34-042616	4/26/2016	36.8	**217**	32.5	112	10 U	--	--	--	19.8 J	--	--
WGNA-SW/SD-34	Neshaminy	SW-34-081017	8/10/2017	30.7	**196**	21.2	86.7	3.55 J	--	6 U	6 U	11	26	6 U
WGNA-SW/SD-34	Neshaminy	SW-34-081017-D	8/10/2017	28.6	**193**	19.3	83.4	3.76 J	--	6.3 U	6.3 U	11.4	25.4	6.3 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20190726	7/26/2019	19.1	85.46	13.17	37.06	2.39 J	0.38 U	0.72 J	0.47 U	8.38	19.14	0.94 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20191025	10/25/2019	12.32	55.03	10.98	26.28	1.53 J	0.41 U	0.45 J	0.41 U	5.49	13.53	0.41 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200130	1/30/2020	20.63	115.54	10.85	45.64	1.8 J	0.42 U	0.28 J	0.42 U	6.3	17.09	0.42 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200505	5/5/2020	24.06	78.97	11.27	53.44	2.26 J	0.46 U	0.57 J	0.46 U	8.03	21.49	0.46 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200916	9/16/2020	19.77	107.61	17.73	56.87	1.86 J	1 J	0.54 J	0.44 U	8.65	29.62	0.44 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20190726	7/26/2019	22.04	85.11	13.22	45.06	2.41 J	0.36 U	0.72 J	0.19 J	7.98	19.35	0.48 J
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20191025	10/25/2019	13.19 J	55.15 J	10.35 J	26.77 J	1.68 J	0.41 UJ	0.44 J	0.41 UJ	5.51 J	13.29 J	0.2 J
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200130	1/30/2020	17.52	101.42	9.87	40.63	1.61 J	0.41 U	0.37 J	0.41 U	6	15.81	0.41 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200505	5/5/2020	20.31	88.97 J-	11.28	51.18 J	2.1 J	0.45 UJ	0.54 J	0.45 U	7.43	20.45 J+	0.45 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200916	9/16/2020	20.65	103.67	18.37	60.93	1.77 J	1.02 J	0.44 J	0.44 U	8.73	30.35	0.44 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210111	1/11/2021	16	86	10	47	1.5 J	--	0.86 U	0.86 U	5.4	19	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210315	3/15/2021	16	73	10	43	1.5 J	--	0.9 U	0.9 U	5.9	17	0.9 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210628	6/28/2021	30	130	13	63	2.6	--	0.69 J	0.87 U	11	32	0.87 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210920	9/20/2021	30	120	17	78	2.6	--	1.4 J	0.86 U	11	31	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20211214	12/14/2021	18	57	11	35	1.3 J	--	0.85 U	0.85 U	6.1	17	0.85 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220321	3/21/2022	16	73	8.8	34	2	--	0.58 J	0.86 U	5.9	16	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220614	6/14/2022	22	94	13	49	2.7	--	0.99 J	0.81 U	8.8	23	0.81 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220916	9/16/2022	19 J	74 J	12 J	43 J	2.1 J	--	0.79 J	0.86 UJ	7.1 J	20 J	0.86 UJ
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20221205	12/5/2022	14 J	72 J	9 J	32 J	1.9 J	--	0.68 J	0.85 UJ	5.8 J	14 J	0.85 UJ
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230320	3/20/2023	15	88	11	44	1.7	--	0.43 J	0.84 U	6.2	17	0.84 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605	6/5/2023	28	120	17	67	2.3	--	0.66 J	0.82 U	9.2	31	1.2 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605-D	6/5/2023	28	130	16	66	2.2	--	0.65 J	0.81 U	9.7	30	1.2 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230921	9/21/2023	16.3	86.1	8.02	38.7	2.72 J	2.37 U	2.16 U	2.16 U	9.14	17.8	1.07 J
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240103	1/3/2024	17.2	68.8	8.79	38.8	1.89	1.41 U	0.289 J	0.566 U	5.02	13	0.382 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240104	1/4/2024	18.6	75.7	9.01	43	2.23	1.38 U	0.472 J	0.553 U	5.58	16.3	0.373 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240319	3/19/2024	23.8	91.8	11.2	45.9	2.8	1.48 U	0.498 J	0.595 U	6.44	18	0.401 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-35	Neshaminy	SW-35-042616	4/26/2016	33.7	**201**	25.2	104	9.6 U	--	--	--	16.9 J	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-022415	2/24/2015	36.3	**187**	31.9	82.9	16 U	--	--	--	10.4	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-042616	4/26/2016	35.5	**214**	35	109	9.6 U	--	--	--	17 J	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-081017	8/10/2017	30	**175**	18.5	79.8	3.84 J	--	6.3 U	6.3 U	11.3	24	6.3 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190726	7/26/2019	20.02	97.43 J-	12.91	37.96	2.44 J	0.33 U	0.66 J	0.42 U	7.26	17.4	0.29 J
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190729	7/29/2019	29.72	132.77	17.57	57.77 J-	3.1 J	0.33 U	0.69 J	0.42 U	9.96	23.53	0.83 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505	5/5/2020	15.88	78.69	10.73	40.2	1.86 J	0.46 U	0.54 J	0.46 U	6.32	16.06	0.46 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505-D	5/5/2020	15.86	71.96	10.49	36.53	1.89 J	0.43 U	0.52 J	0.43 UJ	6.98	14.98	0.43 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506	5/6/2020	18.14	89.74	11.06	43.4	2.19 J	0.41 U	0.43 J	0.41 UJ	7.41	17.75	0.41 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506-D	5/6/2020	17.93	87.31	11.1	42.43	1.83 J	0.41 U	0.5 J	0.41 UJ	6.8	18.85	0.41 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916	9/16/2020	19.87	92.75	16.53	61.17	1.59 J	0.86 J	0.45 J	0.44 U	8.03	28.81	0.44 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916-D	9/16/2020	21.84	81.3	17.89	57.39	0.86 U	0.43 U	0.43 U	0.43 U	8.92	28.91	0.43 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200917	9/17/2020	23.27	81.03	20.07	62.32	1.88 J	0.93 J	0.55 J	0.44 U	8.45	33.74	0.23 J
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210628	6/28/2021	27	110	13	57	2.5	--	0.71 J	0.85 U	11	31	0.85 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210630	6/30/2021	23.9	99.5	19.6	48.3	2.12 J	0.442 U	0.905 J	0.442 U	8.63	29	0.442 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210920	9/20/2021	27	100	16	69	2.8	--	1.6 J	0.88 U	10	29	0.88 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210922	9/22/2021	24.7	124	13	60.7	0.85 J	2.13 U	2.13 U	2.13 UJ	10.4	22.8	2.13 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220614	6/14/2022	19	70	12	39	2.7	--	0.96 J	0.84 U	7.7	20	0.84 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220621	6/21/2022	21.3	97.5	11.9	46	2.24 U	2.24 U	2.24 U	2.24 U	6.54	21	2.24 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220916	9/16/2022	19.7	67.9	12.3	40.9	2.49 J	2.15 U	2.15 U	2.15 U	7.93	23.9	2.15 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230605	6/5/2023	26	110	17	62	2.2	--	0.61 J	0.8 U	9.8	28	1.2 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230607	6/7/2023	2.15 J	23.4	0.968 J	1.12 J	1.33 J	2.19 U	0.709 J	2.19 U	1.39 J	2.09 J	2.19 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921	9/21/2023	4.46 U	9.32	2.4 J	3.23 J	1.78 J	2.47 U	2.33 U	2.33 U	3.54 J	3.74 J	1.03 J
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921-D	9/21/2023	4.15 U	7.25	2.26 J	3.13 J	1.87 J	2.51 U	2.32 U	2.32 U	3.51 J	3.86 J	2.32 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230922	9/22/2023	18.4	72.2	8.16	37.7	2.34 J	2.32 J	2.16 U	2.16 U	10.1	18.9	0.941 J
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20240319	3/19/2024	18.3	56.3	9.9	35.3	1.98	1.41 U	0.419 U	0.566 U	5.75	14.2	0.382 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220621	6/21/2022	17.6	58.6	8.97	26.7	2.13 U	2.13 U	2.13 U	2.13 U	4.51	18.5	2.13 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220916	9/16/2022	17.5	43.9	11.1	24.4	2.89 J	2.06 U	1.36 J	2.06 U	6.55	22.2	2.06 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20221205	12/5/2022	15.3	60	7.89	27.4	1.69 J	2.39 U	2.39 U	2.39 U	4.85	13.4	2.39 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230320	3/20/2023	14.8	44.4	7.33	26.6	1.31 J	2.27 U	2.27 U	2.27 U	4.85	13.3	2.27 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230607	6/7/2023	16.7	43.9	7.24	27	1.94 J	2.31 U	0.948 J	2.31 U	6.25	20.8	2.31 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230922	9/22/2023	16.1	53.5	6.93 J	28.5	2.97 J	2.43 J	0.706 J	2.24 U	9.28	17.2	2.24 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240104	1/4/2024	16.4	47.9	7.98	27.8	2	1.38 U	0.349 J	0.555 U	4.7	11.6	0.375 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240319	3/19/2024	16.9	74.6	8.46	27.4	2.31	1.52 U	0.803 J	0.611 U	4.92	13.7	0.412 U
WGNA-SW/SD-37	Neshaminy	SW-37-042616	4/26/2016	36	**238**	30.4	109	9.6 U	--	--	--	17.5 J	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-022715	2/27/2015	129	**278**	26.8	194	16 U	--	--	--	21.1	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-042916	4/29/2016	48.1	92.4	9.89 J	69.4	9.6 U	--	--	--	9.83 J	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20220621	6/21/2022	97.3	**237**	10.5	111	3.96 J	2.09 U	2.09 U	2.09 U	15.5	28	2.09 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20221205	12/5/2022	74 J	**150 J**	10 J	89 J	5.5 J	--	0.92 J	0.84 UJ	17 J	26 J	0.84 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230320	3/20/2023	59	130	8.8	79	4.3	--	0.83 J	0.83 U	14	21	0.83 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230607	6/7/2023	44	118	5.01	56.9	4.18 J	2.21 U	1.35 J	2.21 U	9.42	15.5	0.989 J
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230922	9/22/2023	96.9	**233**	10.5	117	8.17	2.71	0.9 J	2.49 U	22.2	34.4	1.22 J
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103	1/3/2024	60.8 J	109 J	8.74 J	68.8 J	4.11 J	1.39 UJ	0.414 UJ	0.559 UJ	8.73 J	16.7 J	0.377 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103-D	1/3/2024	57.3 J	105 J	8.88 J	66.8 J	4.13 J	1.34 UJ	0.807 J	0.538 UJ	9.48 J	16 J	0.363 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319	3/19/2024	73.1	134	8.37	71.2	4.92	1.39 U	1.37 J	0.559 U	10.4	18.9	0.377 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319-D	3/19/2024	66.9	117	7.97	71.9	4.54	1.5 U	1.01 J	0.604 U	10.3	18.6	0.408 U
WGNA-SW/SD-40	Neshaminy	SW-40-022715	2/27/2015	71.6	**190**	24.2	124	17 U	--	--	--	13.4	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-022715-D	2/27/2015	73.4	**187**	28.4	125	17 U	--	--	--	14	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-042916	4/29/2016	45.3	113	13.8 J	76.6	9.6 U	--	--	--	10.4 J	--	--
WGNA-SW/SD-41	Neshaminy	SW-41-042916	4/29/2016	84.9	**398**	28.8	209	10 U	--	--	--	19.6 J	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726	7/26/2019	80.14	**341.84**	25.04	140.16	3.97 J	0.36 U	0.93 J	0.45 U	18.09	45.12	0.89 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726-D	7/26/2019	77.54	**422.64**	22.59	154.54	3.95 J	0.36 U	1.01 J	0.45 U	17.31	40.5	0.28 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025	10/25/2019	35.05	**334.49**	26.78	166.52	2.98 J	0.23 J	0.54 J	0.42 U	18.67	44.6	0.42 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025-D	10/25/2019	34.19	**294.9**	25.54	157.93	3.09 J	0.21 J	0.58 J	0.41 U	18.31	43.42	0.41 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200130	1/30/2020	72.25	**325.58**	22.7	139.57	3.32 J	0.4 U	0.67 J	0.4 U	16.09	40.46	0.4 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200505	5/5/2020	58.48	**187.11**	18.07	114.29	2.9 J	0.47 U	0.64 J	0.47 UJ	14.34	35.36	0.47 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200916	9/16/2020	64.11	**396.75**	29.64	195.24	2.56 J	0.7 J	0.55 J	0.49 U	17.39	46.88	0.49 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210111	1/11/2021	64	**340**	20	130	3.5	--	0.8 J	0.85 U	13	40	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315	3/15/2021	62	**240**	21	110	2.8	--	0.6 J	0.87 U	12	37	0.87 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315-D	3/15/2021	61	**240**	20	120	2.7	--	0.53 J	0.86 U	13	37	0.86 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628	6/28/2021	110	**490**	32	220	4.3	--	0.84 J	0.86 U	29	68	0.86 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628-D	6/28/2021	110	**460**	32	220	4.3	--	0.75 J	0.85 U	27	67	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210920	9/20/2021	100	**400**	30	210	4.6	--	1.8	0.85 U	23	66	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20211214	12/14/2021	81	**300**	26	170	2.9	--	0.53 J	0.82 U	19	53	0.82 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220321	3/21/2022	72	**280**	23	150	3	--	0.64 J	0.85 UJ	16	43	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220614	6/14/2022	81	**330**	24	160	3.4	--	0.99 J	0.83 U	17	46	0.83 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220916	9/16/2022	88 J	**370 J**	31 J	200 J	3.2 J	--	0.76 J	0.9 UJ	20 J	54 J	0.9 UJ
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205	12/5/2022	120 J	**970 J**	26 J	180 J	9.6 J	--	3.1 J	0.83 UJ	18 J	47 J	0.87 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205-D	12/5/2022	87 J	**550 J**	25 J	160 J	4.4 J	--	1.6 J	0.85 UJ	18 J	47 J	0.55 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230320	3/20/2023	74	**310**	24	150	3.3	--	0.67 J	0.91 U	17	48	0.91 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230605	6/5/2023	120	**470**	38	270	5.3	--	1 J	0.91 U	27	83	1.4 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230921	9/21/2023	79.8	**412**	20	169	4.02 J	2.38 U	0.764 J	2.17 U	18.9	46	0.955 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20240319	3/19/2024	83.1	**258**	19.2	121	4.03	1.56 U	0.467 U	0.63 U	13.4	36.7	0.425 U
WGNA-SW/SD-42	Neshaminy	SW-42-022415	2/24/2015	141	**769**	59.6	372	17 U	--	--	--	26.2	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-042616	4/26/2016	142	**745**	51.2	330	10 U	--	--	--	31.4	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-081017	8/10/2017	105	**627**	40	279	5.67 J	--	6.3 U	6.3 U	25.2	62	6.3 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20190726	7/26/2019	95.41	**1135.45**	28.04	159.49	3.99 J	0.36 U	1.02 J	0.45 U	19.61	48.83	0.27 J
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20191025	10/25/2019	59.79	**629.86**	29.53	202.33	3.91 J	0.22 J	1.05 J	0.43 U	20.92	52.54	0.24 J
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200130	1/30/2020	70.3	**345.64**	24.46	145.78	3.07 J	0.41 U	0.59 J	0.41 U	15.87	41.08	0.41 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200505	5/5/2020	69.41	**239.66**	21.25	146.84	3.1 J	0.45 U	0.66 J	0.45 UJ	16.08	44.27	0.45 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200916	9/16/2020	78.57	**459.53**	31.66	203.14	2.64 J	0.55 J	0.45 J	0.45 U	18.4	53.53	0.45 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210111	1/11/2021	69	**290**	22	140	2.9	--	0.62 J	0.84 U	13	44	0.84 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210315	3/15/2021	66	**300**	23	130	2.9	--	0.61 J	0.88 U	14	41	0.88 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210628	6/28/2021	120	**540**	36	240	4.4	--	0.67 J	0.83 U	30	74	0.83 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920	9/20/2021	97	**430**	32	220	4.4	--	1.7	0.82 U	24	66	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920-D	9/20/2021	96	**410**	31	220	4.7	--	1.4 J	0.82 U	24	69	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20211214	12/14/2021	81	**350**	29	170	3.1	--	0.58 J	0.87 U	19	54	0.87 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220321	3/21/2022	77	**310**	25	150	3	--	0.75 J	0.86 U	17	45	0.86 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220614	6/14/2022	87	**440**	27	170	3.7	--	1 J	0.84 U	18	53	0.84 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220916	9/16/2022	90 J	**460 =**	35 J	220 J	3.1 J	--	0.74 J	0.85 UJ	22 J	57 J	0.85 UJ

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20221205	12/5/2022	79 J	**310 J**	28 J	160 J	2.9 J	--	0.51 J	0.83 UJ	18 J	50 J	0.83 UJ
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230320	3/20/2023	78	**340**	26	160	2.7	--	0.52 J	0.87 U	18	51	0.87 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230605	6/5/2023	120	**530**	43	280	4.6	--	0.89 J	0.82 U	28	78	1.2 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230921	9/21/2023	79.2	**411**	22.3	163	3.8 J	2.36 U	2.17 U	2.17 U	18.3	44.5	1.02 J
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240103	1/3/2024	67.6	**250**	19.5	117	3.31	1.36 U	0.8 J	0.548 U	12.2	33.8	0.37 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240319	3/19/2024	75.4	**260**	20.1	121	3.71	1.48 U	0.72 J	0.594 U	14.1	38.7	0.4 U
WGNA-SW/SD-43	Pennypack	SW-43-022515	2/25/2015	**266**	**1010**	81.2	549	16 U	--	--	--	29.1	--	--
WGNA-SW/SD-43	Pennypack	SW-43-042516	4/25/2016	**265**	**772**	48.1	438	9.6 U	--	--	--	29.8	--	--
WGNA-SW/SD-43	Pennypack	SW-43-081017	8/11/2017	**456**	**941**	44.4	479	6.97 J	--	6.3 U	6.3 U	41.5	113	6.3 U
WGNA-SW/SD-43A	Pennypack	SW-43A-042516	4/25/2016	**320**	**1010**	48.5	455	10 U	--	--	--	31.3	--	--
WGNA-SW/SD-43A	Pennypack	SW-43A-080717	8/7/2017	37.6	101	5.8 U	46.5	2.63 J	--	5.8 U	5.8 U	7.92	15.4	5.8 U
WGNA-SW/SD-43A	Pennypack	SW-43A-081117	8/11/2017	**489**	**941**	41.9	459	6.66 J	--	6.3 U	6.3 U	43.7	124	6.3 U
WGNA-SW/SD-43B	Pennypack	SW-43B-080717	8/7/2017	7.08 J	**210**	5.8 U	16.1	3.47 J	--	5.8 U	5.8 U	5.8 U	4.18 J	5.8 U
WGNA-SW/SD-44	Pennypack	SW-44-022515	2/25/2015	167	**650**	68.4	369	16 U	--	--	--	20.5	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516	4/25/2016	160	**600**	61.9	345	10 U	--	--	--	20.5 J	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516-D	4/25/2016	150	**509**	54.4	304	10 U	--	--	--	19.7 J	--	--
WGNA-SW/SD-44	Pennypack	SW-44-081017	8/11/2017	179	**944**	75.8	513	4.77 J	--	6 U	6 U	25	61.7	6 U
WGNA-SW/SD-45	Pennypack	SW-45-042916	4/29/2016	142	**414**	32	249	9.6 U	--	--	--	16.6 J	--	--
WGNA-SW/SD-45	Pennypack	SW-45-080717	8/7/2017	51.5	**350**	9.8	123	6.08 J	--	5.8 U	5.8 U	16.1	28	5.8 U
WGNA-SW/SD-45	Pennypack	SW-45-081117	8/11/2017	**314**	**818**	60.2	457	4.97 J	--	6.3 U	32.8	32.8	85.1	6.3 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725	7/25/2019	**298.04**	**915.38**	32.9	250.3	6.16	0.34 U	1.7 J	0.42 U	29.26	68.14	0.4 J
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725-D	7/25/2019	**371.7**	**1232.57**	38.43	277.44	7	0.33 U	1.95 J	0.41 U	32.21	82.32	0.45 J
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20191022	10/22/2019	79.06	**456.08**	25.22	110.03	3.11 J	0.42 U	0.95 J	0.42 U	18.38	38.83	0.44 J
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200129	1/29/2020	**298.43**	**819.35**	35.09	236.44	5.3	0.4 U	1.45 J	0.4 U	28.92	65.71	0.4 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200504	5/4/2020	**428.9**	**1217.06**	42.14	303.96	6.92	0.45 U	1.79 J	0.45 U	36.92	92.63	0.45 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200915	9/15/2020	108.39	**427.77**	35.79	214.13	2.2 J	0.45 U	0.31 J	0.45 U	14.67	42.51	0.45 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210111	1/11/2021	147	**523**	24.4	147	3.02 J	0.456 U	0.273 J	0.456 U	17	42.7	0.456 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210315	3/15/2021	143	**413**	20.8	145	2.65 J	0.424 U	0.362 J	0.424 U	14.2	37.1	0.194 J
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210628	6/28/2021	71.9	**267**	22.4	109	1.54 J	0.431 U	0.431 U	0.431 U	8.87	27.4	0.431 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210920	9/20/2021	95.2	**369**	26.6	147	2.13 J	2.26 U	2.26 U	2.26 U	12.1	31	2.26 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20211214	12/14/2021	80	**273**	19.2	128	2.14 U	2.14 U	2.14 U	2.14 U	11.5	26.9	2.14 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220321	3/21/2022	69.8	**345**	17.2	107	1.74 J	2.14 U	2.14 U	2.14 U	11.7	26.6	2.14 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220614	6/14/2022	84.6	**305**	17.5	94	1.44 J	2.19 U	2.19 U	2.19 U	8.5	22.4	2.19 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220914	9/14/2022	60.7	**223**	11.6	88.8	2.23 J	2.06 U	2.06 U	2.06 U	10.2	19.1	2.06 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205	12/5/2022	44.7	**175**	9.08	49.7	1.2 J	2.23 U	2.23 U	2.23 U	7.96	17	2.23 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205-D	12/5/2022	39.2	**189**	9.8	58.7	1.22 J	2.32 U	2.32 U	2.32 U	9.42	14.4	2.32 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230320	3/20/2023	54	**311**	14	83.1	1.84 J	2.39 U	2.39 U	2.39 U	6.61	18.8	2.39 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230605	6/5/2023	66.2	**390**	12.1	92.6	2.08 J	2.16 U	2.16 U	2.16 U	7.91	25.4	1.17 J
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230919	9/19/2023	96.6	**378**	12.4	99.6	2.31 J	2.18 U	2.18 U	2.18 U	10.3	33.1	2.18 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240104	1/4/2024	115	**373**	15.5	121	2.97	1.37 U	0.35 J	0.552 U	9.77	39.7	0.372 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240318	3/18/2024	146	**528**	17.1	151	4.36	1.46 U	1.03 J	0.587 U	11.6	41.6	0.396 U
WGNA-SW/SD-46	Pennypack	SW-46-042916	4/29/2016	**321**	**705**	76.7	506	9.6 U	--	--	--	30.5	--	--
WGNA-SW/SD-46	Pennypack	SW-46-081117	8/11/2017	**219**	**467**	52.1	370	4.8 J	--	6.3 U	6.3 U	26	58.6	6.3 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20190725	7/25/2019	**253.89**	**786.52**	35.57	286.68	5.27	0.33 U	1.51 J	0.41 U	25.13	58.65	0.34 J
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20191022	10/22/2019	78.66	**249.33**	22.31	125.97	2.4 J	0.47 UJ	0.7 J	0.47 U	11.97	22.58 J	0.22 J

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200129	1/29/2020	**234.07**	**680.61**	37.27	256.12	4.54	0.4 U	1.22 U	0.4 U	22.72	52.04	0.4 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200504	5/4/2020	**344.28**	**678.37**	40.96	325.63	5.82	0.43 U	1.22 J	0.43 UJ	29.44	78.54	0.43 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111	1/11/2021	130	**382**	28.7	150	2.31 J	0.5 U	0.15 J	0.5 U	16.3	39.6	0.5 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111-D	1/11/2021	123	**366**	27.6	151	2.36 J	0.424 U	0.134 J	0.424 U	16.3	39.8	0.424 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210315	3/15/2021	179	**500**	35.2	198	3.2 J	0.261 J	0.537 J	0.49 U	18	50.8	0.49 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210628	6/28/2021	96.5	**261**	33.5	127	2.52 J	0.43 U	0.43 U	0.43 U	11.2	35.1	0.43 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920	9/20/2021	61.5	**200**	21.2	76.8	1.76 J	2.19 U	2.19 U	2.19 U	8.6	22.5	2.19 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920-D	9/20/2021	67.4	**208**	22.4	79.8	2.45 J	2.22 U	2.22 U	2.22 U	10.3	24.2	2.22 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20211214	12/14/2021	59.1	**209**	16.7	106	0.8 J	2.16 U	2.16 U	2.16 U	8.59	20.2	2.16 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220321	3/21/2022	125	**337**	26.5	153	2.16 J	2.14 U	2.14 U	2.14 U	17.6	52.9	2.14 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220614	6/14/2022	99.6	**343**	20.4	113	1.86 J	2.23 U	2.23 U	2.23 U	13.1	32	2.23 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220914	9/14/2022	38.3	**153**	12.1	98.8	2.06 J	2.13 U	2.13 U	2.13 U	11.1	19	2.13 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20221205	12/5/2022	39.6	**159**	13	62.9	0.88 J	2.51 U	2.51 U	2.51 U	7.79	14.8	2.51 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230320	3/20/2023	71.9	**302**	16.5	99.4	1.98 J	2.52 U	2.52 U	2.52 U	10	23.8	2.52 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230605	6/5/2023	43.7	**216**	10	66	2.03 J	2.34 U	2.34 U	2.34 U	6.37	15.9	0.978 J
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230919	9/19/2023	58.2	**212**	11.8	74.3	2.18 J	2.5 U	2.5 U	2.5 U	8.7	19.5	2.5 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240104	1/4/2024	117 J	**296**	19.5	122 J	3.12	1.45 U	0.445 J	0.582 U	10.7	38.1	0.393 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240318	3/18/2024	174	**492**	25.4	204	4.9	1.61 U	1.06 J	0.647 U	14.9	43.8	0.437 U
WGNA-SW/SD-47	Pennypack	SW-47-042916	4/29/2016	79.2	**193**	29.8	130	9.6 U	--	--	--	9.99 J	--	--
WGNA-SW/SD-47	Pennypack	SW-47-081117	8/11/2017	32	76	13.8	46.7	3.3 U	--	6.3 U	6.3 U	6.38 J	10.3	6.3 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210111	1/11/2021	24.5	63.8	8.4	28.3	0.687 J	0.424 U	0.424 U	0.424 U	4.02 J	10.7	0.424 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210315	3/15/2021	26.6	58.7	8.82	28.6	0.901 J	0.446 U	0.446 U	0.446 U	4.01 J	9.92	0.446 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210628	6/28/2021	15.5	34.5	9.12	15.2	1.24 J	0.437 U	0.437 U	0.437 U	3.44 J	6.3	0.437 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210920	9/20/2021	17	44.7	10.3	13.6	1.7 J	2.24 U	2.24 U	2.24 U	3.57 J	5.92	2.24 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20211214	12/14/2021	11.6	19.7	6.3	12.7	2.26 U	2.26 U	2.26 U	2.26 U	2.71 J	3.49 J	2.26 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220321	3/21/2022	21.6	47.3	9.22	26.2	2.15 U	2.15 U	2.15 U	2.15 U	4.94	10.5	2.15 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220614	6/14/2022	19.9	46.4	8.68	16.5	2.16 U	2.16 U	2.16 U	2.16 U	4.24 J	8.34	2.16 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220914	9/14/2022	14.8	43.1	10.8	19.2	3.19 J	2.14 U	2.14 U	2.14 U	5.39	10	2.14 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20221205	12/5/2022	14.5	32.4	6.09	14.3	2.58 U	2.58 U	2.58 U	2.58 U	3.86 J	5.74	2.58 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230320	3/20/2023	14.9	63.8	6.67	13	1.25 J	2.19 U	2.19 U	2.19 U	2.36 J	4.91	2.19 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230605	6/5/2023	9.34	32.4	4.81	7.89	1.4 J	2.16 U	2.16 U	2.16 U	2.32 J	4.42	2.16 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230919	9/19/2023	18.7	50.7	7.93	20.4	1.34 J	2.31 U	2.31 U	2.31 U	4.28 J	7.96	2.31 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240104	1/4/2024	22.3	43.8	10.1	18.1	1.85	1.33 U	0.219 J	0.536 U	3.6	7.06	0.361 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240318	3/18/2024	31.8	67	9.97	34.6	1.84	1.45 U	0.431 U	0.582 U	4.34	9.75	0.393 U
WGNA-SW/SD-48	Pennypack	SW-48-042916	4/29/2016	8.93 J	10 U	16 U	16 U	10 U	--	--	--	16 U	--	--
WGNA-SW/SD-48	Pennypack	SW-48-081117	8/11/2017	10.6	9.68	7.99 J	4.92 J	3.3 U	--	6.3 U	6.3 U	4.29 J	5.48 J	6.3 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20190725	7/25/2019	9.57	6.92	5.66	2.47 J	1.37 J	0.34 U	0.31 J	0.42 U	3.31 J	4.21 J	0.85 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20191022	10/22/2019	6.47	4.63	5.99 J	1.91 J	0.95 J	0.43 UJ	0.29 J	0.43 U	2.7 J	3.86 J	0.43 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200129	1/29/2020	5.81	5.26	4.12	2.01 U	1.04 J	0.4 U	0.2 J	0.4 UJ	2.15 J	2.78 J	0.4 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200504	5/4/2020	5.97	5.26	4.55	2.27 J	0.89 J	0.45 U	0.2 J	0.45 UJ	2.37 J	3.12 J	0.45 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200915	9/15/2020	4.66 J	4.74 J	4.34 J	1.61 J	0.68 J	0.48 U	0.48 U	0.48 U	2.26 J	3 J+	0.48 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210111	1/11/2021	4.3 J	4.02 J	3.81 J	1.29 J	0.426 J	0.466 U	0.466 U	0.466 U	1.24 J	2.32 J	0.466 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210315	3/15/2021	4.6	3.72 J	3.75 J	1.28 J	0.571 J	0.431 U	0.431 U	0.431 U	1.82 J	2.39 J	0.431 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210628	6/28/2021	5.98	5.62	7.29	1.64 J	0.899 J	0.436 U	0.436 U	0.436 U	1.95 J	2.86 J	0.436 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210920	9/20/2021	6.18	5.81	6.64	1.19 J	2.25 U	2.25 U	2.25 U	2.25 U	2 J	3.18 J	2.25 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20211214	12/14/2021	5.6	4.27 J	3.15 J	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U	1.59 J	2.64 J	2.18 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220321	3/21/2022	4.89	4.8	4.98	1.65 J	2.17 U	2.17 U	2.17 U	2.17 U	2.79 J	6.76	2.17 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220614	6/14/2022	7.26	4.97	4.55	2.63 J	2.17 U	2.17 U	2.17 U	2.17 U	1.59 J	3.61 J	2.17 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220914	9/14/2022	5.48	8.31	6.27	1.46 J	1.78 J	2.1 U	2.1 U	2.1 U	3.63 J	4.56	2.1 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20221205	12/5/2022	6.24	5.67	4.6 J	2.08 J	2.34 U	2.34 U	2.34 U	2.34 U	2.31 J	3.78 J	2.34 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320	3/20/2023	4.86	2.23 U	4.44 J	1.43 J	2.23 U	2.23 U	2.23 U	2.23 U	1.12 J	2.49 J	2.23 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320-D	3/20/2023	4.54	2.14 U	3.01 J	1.17 J	2.14 U	2.14 U	2.14 U	2.14 U	2.14 U	2.28 J	2.14 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230605	6/5/2023	5.16	3.91 J	3.36 J	1.32 J	1.1 J	2.3 U	2.3 U	2.3 U	1.91 J	3.17 J	2.3 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230919	9/19/2023	7.07	7.24	5.73	2.56 J	0.969 J	2.19 U	2.19 U	2.19 U	3.05 J	4.37	2.19 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104	1/4/2024	6.32	4.65	5.6	1.96	1.01 J	1.43 U	0.426 U	0.574 U	1.96	3.18	0.387 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104-D	1/4/2024	6.41	4.26	5.59	1.6	1.13 J	1.39 U	0.23 J	0.557 U	2.08	2.66	0.376 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240318	3/18/2024	7.56	4.94	5.47	2.06	1.57 J	1.48 U	0.442 U	0.596 U	1.77	2.81	0.402 U
WGNA-SW/SD-49	Pennypack	SW-49-042916	4/29/2016	**493**	**2300**	193	**1540**	10.6 J+	--	--	--	43 J	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200129	1/29/2020	**626.14**	**4008.38**	276.94	**2557.76**	10.92	0.6 J	1.69 J	0.42 U	64.23	267.7	0.42 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200504	5/4/2020	**538.54**	**3564.78**	219.47	**1968.7**	13.92	0.29 J	2.6 J	0.43 U	79.12	266.11	0.46 J
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210111	1/11/2021	**505**	**2970**	210	**1830**	9.44	0.443 U	1.16 J	0.443 U	66.1	215	0.443 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210315	3/15/2021	**555**	**3970**	251	**1850**	11.3	0.591 J	1.74 J	0.446 U	65.7	252	0.596 J
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20240318	3/18/2024	**327**	**1860**	112	1120	14.8	1.45 U	1.88	0.583 U	36.1	125	0.393 U
WGNA-SW/SD-51	Neshaminy	SW-51-042916	4/29/2016	147	**2280**	78.3	949	29.5	--	--	--	182	--	--
WGNA-SW/SD-51	Neshaminy	SW-51-080717	8/7/2017	21	**316**	11.3	87.1	4.09 J	--	5.8 U	5.8 U	12.8	41.9	5.8 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220322	3/22/2022	65.4	**2160**	55.6	326	5.65	2.1 U	1.88 J	2.1 U	39.3	158	2.1 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220615	6/15/2022	**225**	**15100**	110	964	20.1	2.56 U	19.6	2.56 U	73	363	3.93 J
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220915	9/15/2022	60.2	**2600**	32.6	282	8.47	2.17 U	3.52 J	2.17 U	31.2	89.4	2.17 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20221206	12/6/2022	59.5	**2600 J**	36.7	251	7.99 J+	2.14 U	4.98	2.14 U	32.7	127	1.22 J
WGNA-SW/SD-52	Neshaminy	SW-52-042916	4/29/2016	13.1 J	46.4	16 U	66.2	10 U	--	--	--	16 U	--	--
WGNA-SW/SD-52	Neshaminy	SW-52-080717	8/7/2017	15.7	125	9.98	73.8	3.22 J	--	5.8 U	5.8 U	8.13	16.8	5.8 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20190725	7/25/2019	10.82	36.93	5.77	39.53	0.82 J	0.34 U	0.43 U	0.43 U	3.51 J	6.77	0.86 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200129	1/29/2020	10.12	132.49	5.82	38.68	1.73 J	0.41 U	0.36 J	0.41 UJ	2.98 J	4.95	0.26 J
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200504	5/4/2020	11.32	55.59	5.06	32.42	1.35 J	0.47 U	0.19 J	0.47 U	3.44 J	6.22	0.47 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210112	1/12/2021	10.1	38.9	5.76	33.5	0.995 J	0.49 U	0.49 U	0.49 U	3.39 J	6.42	0.49 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210316	3/16/2021	8.97	30.1	5.44	24.5	0.63 J	0.455 U	0.455 U	0.455 U	3.04 J	6.29	0.455 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210921	9/21/2021	14.5	57	8.76	52.7	0.906 J	2.1 U	2.1 U	2.1 U	6.43	10.4	2.1 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20211215	12/15/2021	8.88	48.9	4.89	38.4	2.34 U	2.34 U	2.34 U	2.34 U	1.88 J	3.55 J	2.34 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20220322	3/22/2022	9.73 J	31.6	5.01	27.3	2.37 U	2.37 U	2.37 U	2.37 U	3.01 J	7.17 J	2.37 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20230321	3/21/2023	16.5	115	3.98 J	32.9	2.37 J	2.22 U	2.22 U	2.22 UJ	3.89 J	5.88	2.22 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320	3/20/2024	13	32.8	4.18	26.6	1.64	1.52 U	0.454 U	0.613 U	3.32	7.29	0.413 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320-D	3/20/2024	13	33.1	4.35	26.3	1.45 J	1.38 U	0.412 U	0.556 U	3.74	6.89	0.375 U
WGNA-SW/SD-53	Pennypack	SW-53-080717	8/7/2017	3.1 U	5.42 J	5.8 U	5.8 U	3.1 U	--	5.8 U	5.8 U	5.8 U	14.2	5.8 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200129	1/29/2020	**933.31**	**1408.26**	49.76	501.97	11.53	0.27 J	3.49 J	0.18 J	61.87	133.24	0.34 J
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200504	5/4/2020	**482.05**	**1117.81**	36.43	412.19	11.81	0.45 U	2.93 J	0.45 UJ	57.48	130.29	0.35 J
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210111	1/11/2021	**470**	**1280**	37.2	407	9.93	0.53 U	1.94 J	0.53 U	54.9	110	0.53 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210315	3/15/2021	**429**	**2860**	40.9	418	11	0.313 J	5.28	0.472 U	44.1	105	1.04 J
WGNA-SW/SD-54	Pennypack	SW-54-081117	8/11/2017	**953**	**2710**	322	**2580**	14.3	--	6.3 U	6.3 U	81.6	260	6.3 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200129	1/29/2020	**635.2**	**3477.94**	294.16	**2214.89**	11.91	0.63 J	1.87 J	0.4 U	68.51	298.12	0.2 J
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200504	5/4/2020	**512.2**	**3823.57**	215.49	**2111.62**	13.85	0.44 U	2.91 J	0.44 U	77.57	272.84	0.58 J

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210111	1/11/2021	**545**	**3730**	251	**2110**	10.5	0.242 J	1.68 J	0.456 U	76	254	0.456 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210315	3/15/2021	**512**	**3670**	261	**1940**	12	0.626 J	1.76 J	0.455 U	70.1	244	0.29 J
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20220321	3/21/2022	**727 J**	**4840**	377	**2700**	14.6	2.13 U	1.67 J	2.13 U	85.2	335	2.13 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20240318	3/18/2024	**319**	**2090**	131	**1240**	13.6	1.39 U	1.92	0.561 U	38.9	131	0.378 U
WGNA-SW/SD-55	Pennypack	SW-55-081117	8/11/2017	28.6	74.6	14.8	42.5	3.3 U	--	6.3 U	6.3 U	6.15 J	10.1	6.3 U
WGNA-SW/SD-56	Pennypack	SW-56-081117	8/11/2017	24.7	66.8	12.7	35.9	2.04 J	--	6 U	6 U	6.46 J	9.26	6 U
WGNA-SW/SD-56	Pennypack	SW-56-081117-D	8/11/2017	25.3	67.6	12.8	36.3	2.29 J	--	6 U	6 U	6.39 J	9.21	6 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20190725	7/25/2019	33.45	77.49	10.16	34.07	2.02 J	0.33 U	0.48 J	0.41 U	5.58	9.51	0.82 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200129	1/29/2020	32.02	75.84	9.39	31.73	1.56 J	0.41 U	0.28 J	0.41 U	4.7	8.63	0.41 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200504	5/4/2020	41.39	85.33	10.22	44.69	1.96 J	0.45 U	0.4 J	0.45 U	6.4	11.72	0.45 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915	9/15/2020	9.64	20.84	6.58	9.28	1.2 J	0.46 U	0.15 J	0.46 U	2.79 J	5.25 J+	0.46 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915-D	9/15/2020	10.56	22.85	6.77	9.81	1.24 J	0.45 U	0.17 J	0.45 U	3.14 J	4.47 J+	0.45 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210111	1/11/2021	19.7	48.6	9.09	22.7	0.938 J	0.419 U	0.419 U	0.419 U	3.52 J	7.93	0.419 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315	3/15/2021	22.7	54.3	8.53	26.4	1.22 J	0.424 U	0.424 U	0.424 U	4.39	9.29	0.424 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315-D	3/15/2021	20.6	46.9	8.24	23.1	1.09 J	0.424 U	0.424 U	0.424 U	3.7 J	7.53	0.424 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210628	6/28/2021	14.6	38.4	11.7	16.3	1.38 J	0.434 U	0.434 U	0.434 U	3.46 J	6.58	0.434 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210920	9/20/2021	15.4	37.1	11.6	16.8	1.33 J	2.21 U	2.21 U	2.21 U	3.7 J	6.4	2.21 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214	12/14/2021	12.9	23.3	6.91	9.26	2.16 U	2.16 U	2.16 U	2.16 U	3.67 J	7.39	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214-D	12/14/2021	13	24.3	8.19	10.9	2.16 U	2.16 U	2.16 U	2.16 U	3.02 J	6.61	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321	3/21/2022	17.9	36.8	9.31	19.1	2.19 U	2.19 U	2.19 U	2.19 U	7.19	16.6 J	2.19 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321-D	3/21/2022	18.6	38.6	9.51	21.7	0.793 J	2.16 U	2.16 U	2.16 U	5.35	15 J	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614	6/14/2022	19	44.9	8.38 J	18.4	2.21 U	2.21 U	2.21 U	2.21 U	4.66	11	2.21 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614-D	6/14/2022	17.6	47	12.1 J	17.8	1.14 J	2.14 U	2.14 U	2.14 U	4.05 J	6.77	2.14 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220914	9/14/2022	10.4	37.3	7.34	20.5	2.11 J	2.31 U	2.31 U	2.31 U	4.6 J	10.7	2.31 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220915	9/15/2022	10.9	36.4	7.09	17.6	2.38 J	2.06 U	2.06 U	2.06 U	4.82	6.16	2.06 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20221205	12/5/2022	15.4	36.4	6.46	13.7	1.24 J	2.19 U	2.19 U	2.19 U	2.93 J	6.84	2.19 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230320	3/20/2023	14.4	45.2	7.91	16.4	0.904 J	2.31 U	2.31 U	2.31 U	2.72 J	5.18	2.31 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230605	6/5/2023	8.74	25.6	5.23	8.58	1.43 J	2.39 U	2.39 U	2.39 U	2.78 J	4.88	2.39 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230919	9/19/2023	15.8	36.5	7.33	16	1.34 J	2.42 U	2.42 U	2.42 U	4.47 J	6.65	2.42 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20240104	1/4/2024	18.6	38.6	7.57	17.4	1.85	1.37 U	0.288 J	0.552 U	3.49	6.74	0.372 U
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318	3/18/2024	24.5	47.8	8.67	26.9	2.02	1.52 U	0.454 U	0.613 U	4.33	8.03	0.413 U
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318-D	3/18/2024	23.3	45.9	9.09	25.2	2.23	1.6 U	0.476 U	0.643 U	4.03	8.37	0.434 U
WGNA-SW/SD-57	Neshaminy	SW-57-080717	8/7/2017	95.9	**315**	11.6	235	16	--	3.85 J	5.8 U	57.6	56.1	5.8 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20190726	7/26/2019	52.33	62.99	19.76	60.63	2.15 J	0.36 U	0.23 J	0.45 U	9.12	22.87	0.89 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200130	1/30/2020	76.86	64.28	18.4	104.91	2.3 J	0.4 U	0.22 J	0.4 U	10.86	30.02	0.4 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200505	5/5/2020	53.26	38.35	17.74	72.32	1.76 J	0.45 U	0.15 J	0.45 U	9.16	23.74	0.45 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210111	1/11/2021	95	130	17	110	2.6	--	0.73 J	0.96 U	8.8	35	0.96 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210315	3/15/2021	71	91	19	80	2.2	--	0.59 J	0.92 U	8.4	28	0.92 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210920	9/20/2021	140	**160**	19	150	3.3	--	0.93 J	0.92 U	13	46 J	0.92 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220321	3/21/2022	100	99	16	120	2.3	--	0.59 J	0.84 U	14	42	0.84 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614	6/14/2022	90	89	18	90	2.2	--	0.67 J	0.84 UJ	9.9	35	0.84 UJ
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614-D	6/14/2022	96	85	16	93	2.2	--	0.65 J	0.82 UJ	9.6	34	0.82 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20221205	12/5/2022	130 J	120 J	16 J	260 J	12 J	--	1.3 J	0.84 UJ	100 J	94 J	0.84 UJ
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20230320	3/20/2023	100	93	19	130	1.7	--	0.85 U	0.85 U	8.3	44	0.85 U
WGNA-SW/SD-61	Pennypack	SW-61-081117	8/11/2017	20	45.7	12.3	26.5	2.08 J	--	6 U	6 U	7.42 J	9.77	6 U

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Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-62	Pennypack	SW-62-081117	8/11/2017	16.7	21.9 J	11.9	17.8	2.27 J	--	6 U	6 U	8.81	10.7	6 U
WGNA-SW/SD-62	Pennypack	SW-62-081117-D	8/11/2017	14.9	10.9 J	12.9	16.1	2.31 J	--	6.3 U	6.3 U	7.51 J	11.3	6.3 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190725	7/25/2019	14.01	69.26	6.97	19.48	2.28 J	0.33 U	0.93 J	0.41 U	6.35	8.87	0.6 J
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190726	7/26/2019	14.79	52.47	8.03	22.09	2.27 J	0.37 U	0.58 J	0.46 U	6.26	9.63	0.93 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20191025	10/25/2019	7.95	37.25	6.16	14.7	1.54 J	0.42 U	0.36 J	0.42 U	4.97	7.05	0.42 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200129	1/29/2020	7.88	30.23	5.49	10.98	1.39 J	0.41 U	0.25 J	0.41 U	3.59 J	5.22	0.41 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200504	5/4/2020	12.13	49.38	6.84	21.2	2.26 J	0.41 U	0.47 J	0.41 U	6.01	9.14 J+	0.41 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200915	9/15/2020	14.07	44.61	7.84	25.27	1.82 J	0.65 J	0.5 J	0.45 U	5.96	12.32 J+	0.45 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210112	1/12/2021	10.3	48.7	6.78	20.3	1.5 J	0.242 J	0.278 J	0.41 U	4.63	8.37	0.41 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210316	3/16/2021	9.77	41.9	6.78	17.7	1.34 J	0.472 U	0.472 U	0.472 U	4.22 J	9.02	0.472 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210629	6/29/2021	19.8	79.5	17	30.9	3.24 J	0.439 U	0.439 U	0.439 U	9.23	19.7	0.439 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210921	9/21/2021	19.6	87	14.9	47.3	2.49 J	2.22 U	2.22 U	2.22 U	11.3	15.8	2.22 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20211215	12/15/2021	13.3	51.9	7.75	28.6	0.956 J	2.27 U	2.27 U	2.27 U	6.34	13.8	2.27 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220322	3/22/2022	11.9	39.6	14.6 J	15.1	1.44 J	2.13 U	2.13 U	2.13 U	6.8	17	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615	6/15/2022	14.4	60.4	6.18	19.9	2.37 J	2.13 U	0.779 J	2.13 U	5.99	9.73	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615-D	6/15/2022	14.5	62.8	7.11	23.1	2.52 J	2.16 U	2.16 U	2.16 U	7.23	11.9	2.16 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220915	9/15/2022	8.62	29.6	3.91 J	11.2	2.17 J	2.13 U	2.13 U	2.13 U	6.68 J	11.6	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20221206	12/6/2022	10.3	38.7	6.35	16.4	0.833 J	2.18 U	2.18 U	2.18 U	4.42	9.21	2.18 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230321	3/21/2023	7.77	45.7	5.34	14.8	1.39 J	2.18 U	2.18 U	2.18 U	4.17 J	6.83	2.18 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230606	6/6/2023	12.9	42.5	6.44	23.7	2.17 J	2.19 U	2.19 U	2.19 U	6.53	9.95	2.19 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230920	9/20/2023	11	61.5	3.66 J	18	2.72 J	2.12 U	1.31 J	0.698 J	7.51	13.3	1.23 J
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103	1/3/2024	13.5 J	33.6 J	6.91 J	19 J	1.98 J	1.32 UJ	0.393 UJ	0.531 UJ	4.08 J	7.23 J	0.358 UJ
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103-D	1/3/2024	12.1 J	31.2 J	6.72 J	20.9 J	2.03 J	1.34 UJ	0.4 UJ	0.54 UJ	4.25 J	7.13 J	0.364 UJ
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240320	3/20/2024	13	36.7	6.76	19.2	2.26	1.43 U	0.427 U	0.577 U	4.74	8.43	0.389 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20190725	7/25/2019	10.42	10.75	8.86	4.81	1.98 J	0.33 U	0.4 J	0.42 U	4.24	5.62	0.83 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20191022	10/22/2019	7.67	6.43	8.01 J	3.01 J	1.71 J	0.42 UJ	0.36 J	0.42 U	3.74 J	6.34 J	0.42 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200129	1/29/2020	7.55	11.1	8.5	5.01	1.28 J	0.4 U	0.16 J	0.4 U	2.87 J	3.4 J	0.4 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200504	5/4/2020	11.14	16.18	10.21	5.14	1.72 J	0.41 U	0.35 J	0.41 UJ	4.57	6.58	0.41 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200915	9/15/2020	5.46	7.08	6.49	3.07 J	1.33 J	0.41 U	0.2 J	0.41 U	1.84 J	4.57 J+	0.41 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112	1/12/2021	7.91	11.3	8.93	4.75	1.22 J	0.431 U	0.431 U	0.431 U	2.89 J	4.21 J	0.431 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112-D	1/12/2021	7.5	10.3	8.71	4.77	1.12 J	0.424 U	0.424 U	0.424 U	2.56 J	4.2 J	0.424 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316	3/16/2021	6.64	8.14	8.37	3.89 J	0.924 J	0.455 U	0.455 U	0.455 U	2.61 J	3.65 J	0.455 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316-D	3/16/2021	7.5	8.56	9.12	4.06 J	1 J	0.455 U	0.455 U	0.455 U	2.85 J	4.14 J	0.455 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210629	6/29/2021	12.9	14.7	15.1	5.16	2.26 J	0.445 U	0.445 U	0.445 U	4.77	11.6	0.445 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210921	9/21/2021	11.5	16.2	13.8	6.84	1.81 J	2.12 U	2.12 U	2.12 U	5.53	6.19	2.12 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20211215	12/15/2021	7.58	6.99	7.42	2.07 J	2.24 U	2.24 U	2.24 U	2.24 U	1.94 J	5.09 J	2.24 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220322	3/22/2022	10.2	9.7	18.6	6.07	2.62 J	2.05 U	2.05 U	2.05 U	4.98	14.2 J	2.05 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220615	6/15/2022	10.7	11.8	7.74	4.25 J	1.79 J	2.18 U	2.18 U	2.18 U	3.65 J	6.98	2.18 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220915	9/15/2022	9.11	8.9	4.28	3.68 J	1.84 J	2.04 U	2.04 U	2.04 U	2.93 J	6.13	2.04 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206	12/6/2022	8.34	8.62	7.99	2.89 J	2.3 U	2.3 U	2.3 U	2.3 U	2.77 J	4.58 J	2.3 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206-D	12/6/2022	9.11	6.92	8.37	3.79 J	2.16 U	2.16 U	2.16 U	2.16 U	2.59 J	5.57	2.16 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321	3/21/2023	6.18	10.2	8.18	2.7 J	1.19 J	2.04 U	2.04 U	2.04 U	2.36 J	3.53 J	2.04 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321-D	3/21/2023	6.3	11.2	9.48	4.32	1.41 J	2.15 U	2.15 U	2.15 U	1.99 J	3.44 J	2.15 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230606	6/6/2023	11	12	7.31	3.68 J	2.21 J	2.17 U	2.17 U	2.17 U	4.29 J	6.07	0.719 J
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230920	9/20/2023	9.48	10.1 J	5.22	3.53 J	2.14 J	2.15 U	2.15 U	2.15 U	4.21 U	7.63 J+	2.15 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20240320	3/20/2024	11.7	9.37	9.58	4.4	1.79	1.48 U	0.44 U	0.594 U	3.28	5.62	0.4 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729	7/29/2019	26.02	86.72 J	11.28	33.45	2.88 J	0.33 U	0.83 J	0.41 U	8.88	22.04	0.82 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729-D	7/29/2019	28.16	34 J	13.33	34.21	3.2 J	0.33 U	1.03 J	0.41 U	9.03	24.67	0.82 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200506	5/6/2020	20	66.8	9.97	29.97	2.33 J	0.41 U	0.75 J	0.41 UJ	7.47	17.75	0.41 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917	9/17/2020	15.67	48.39	11.08	26.08	1.63 J	0.59 J	0.72 J	0.44 U	5.67	22.93	0.23 J
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917-D	9/17/2020	16.71	42.3	11.02	26.37	1.56 J	0.52 J	0.67 J	0.43 U	5.92	22.41	0.21 J
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210630	6/30/2021	16.6	50.7	15	24	1.76 J	0.434 U	0.91 J	0.434 U	6.88	25.6	0.434 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210922	9/22/2021	19.4	63.2	9.75	33.2	2.4 U	2.4 U	2.4 U	2.4 UJ	7.62	18.4	2.4 U
WGNA-SW/SD-66	Pennypack	WGNA-SW-66-20190725	7/25/2019	79.57	**160.93**	8.78	49.82	7.19	0.31 J	0.93 J	0.42 U	15.64	28.01	0.54 J
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20190729	7/29/2019	59.44	39.84	8.85	45.84	6.36 J	0.33 U	1.61 J	0.42 U	14.89	25.88	0.83 UJ
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200506	5/6/2020	41.71	60.44	7	39.15	3.25 J	0.41 U	0.61 J	0.41 U	13.43	28.55	0.19 J
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200917	9/17/2020	16.62	20.68	4.78	13.82	1.51 J	0.43 U	0.41 J	0.43 U	5.2	18.92	0.19 J
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210630	6/30/2021	33.4	52.6	12.6	25.8	3.28 J	0.51 U	1.11 J	0.51 U	10.8	29.4	0.51 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210922	9/22/2021	35.5	58.9	6.66	30.9	1.05 J	2.19 U	2.19 U	2.19 UJ	13.4	29.8	2.19 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621	6/21/2022	26.6	41.2	5.96	26	0.902 J	2.1 U	2.1 U	2.1 U	8.47	21	2.1 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621-D	6/21/2022	28.8	45.6	5.22	23.1	2.15 U	2.15 U	2.15 U	2.15 U	7.83	18.2	2.15 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20230607	6/7/2023	19.7	28	4.51 J	15.5	2.5 J	2.27 U	0.72 J	2.27 U	7.73	21.6	2.27 U
WGNA-SW/SD-68	Neshaminy	WGNA-SW-68-20190725	7/25/2019	40.48	**664.28**	45.98	610.53	6.45	0.33 U	1.25 J	0.41 U	38.73	94.65	0.63 J
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20190725	7/25/2019	18.44	20.83	8.34	20.22	10.29	0.33 U	1.78 J	0.41 U	9.78	13.54	4.04 J
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200504	5/4/2020	20.12	20.08	10.28	17.8	13.37	0.43 U	1.57 J	0.43 UJ	11.76 J	18.09	4.05 J
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200915	9/15/2020	12.07	14.51	9.72	15.29	7	0.42 U	0.19 J	0.42 U	6.37	13.07 J+	1.91 J
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210628	6/28/2021	17.9	19.1	17.5	17	0.845 U	0.422 U	0.422 U	0.422 U	10.3	13.4	0.422 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210920	9/20/2021	21.4	20.9	14	18.3	20.3	2.22 U	2.22 U	2.22 U	12.6	17.6	2.22 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220614	6/14/2022	22.1	22.1	12.3	17.7	13.2	2.19 U	2.19 U	2.19 U	10.9	14.1	2.19 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220914	9/14/2022	22.4	26.9	11.7	21.5	14.5	2.12 U	2.12 U	2.12 U	10.5	15.3	2.12 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230605	6/5/2023	11.4	31.2	5.36	10.8	2.46 J	2.18 U	0.704 J	2.18 U	5.56	7.79	2.18 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919	9/19/2023	16.8 J	21	11.7	14.7	1.53 J	2.42 U	2.42 U	2.42 U	7	10.5	2.42 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919-D	9/19/2023	17.2 J	24.6	10.3	15.2	9.97	2.25 U	2.25 U	2.25 U	6.73	9.67	2.25 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20190725	7/25/2019	10.35	8.61	7.21	4.02 J	1.52 J	0.33 U	0.42 J	0.41 U	3.65 J	4.73	0.33 J
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200504	5/4/2020	11.62	8.72	7.98	3.95 J	1.7 J	0.46 U	0.32 J	0.46 U	4.95	6.5	0.36 J
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200915	9/15/2020	6.62	5.12	6.15	2.3 J	0.9 J	0.42 U	0.42 U	0.42 U	2.49 J	4.9 J+	0.42 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628	6/28/2021	10.1	8.05	12	3.37 J	1.56 J	0.425 U	0.425 U	0.425 U	2.94 J	5.63	0.425 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628-D	6/28/2021	10.2	8.12	13.2	4.03 J	1.28 J	0.428 U	0.428 U	0.428 U	3.08 J	5.42	0.428 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210920	9/20/2021	10.9	13.2	12.4	3.92 J	2.3 J	2.24 U	2.24 U	2.24 U	3.94 J	6.48	2.24 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220614	6/14/2022	10.5	7.47	9.63	3.93 J	0.94 J	2.2 U	2.2 U	2.2 U	2.83 J	6.5	2.2 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914	9/14/2022	6.13 J	8.95	5.76	2.49 J	1.31 J	2.1 U	0.835 J	2.1 U	2.77 J	5.37	2.1 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914-D	9/14/2022	4.9	9.03	6.44	2.03 J	2.15 J	2.12 U	2.12 U	2.12 U	2.27 J	4.01 J	2.12 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230605	6/5/2023	7.68	7.63	6.37	2.85 J	1.28 J	2.16 U	2.16 U	2.16 U	2.88 J	4.35	2.16 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230919	9/19/2023	8.14	11.9	6.24	3.65 J	1.07 J	2.3 U	2.3 U	2.3 U	2.99 J	5.45	2.3 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20190729	7/29/2019	25.02	90.63	10.28	32.61	3.06 J	0.33 U	0.87 J	0.41 U	8.47	21.2	0.26 J
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200506	5/6/2020	16.12	52.88	11.6	28.01	1.78 J	0.46 U	0.61 J	0.46 U	6.01	17.07	0.46 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200917	9/17/2020	12.23	30.63	10.12	15.87	1.51 J	0.54 J	0.62 J	0.5 U	5.16	17.26	0.26 J
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210630	6/30/2021	16.1	47	18.4	24.3	2.02 J	0.446 U	0.85 J	0.446 U	6.28	23.7	0.446 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210922	9/22/2021	20.3	50.5	9.58	32.7	2.19 U	2.19 U	2.19 U	2.19 UJ	6.21	19.7	2.19 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220621	6/21/2022	18.1	47	10.4	22.8	2.06 U	2.06 U	2.06 U	2.06 U	6.36	17.5	2.06 U

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220916	9/16/2022	16	40.7 J	8.39	28.4	2.35 J	2.06 U	1.22 J	2.06 U	6.89	20.8	2.06 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607	6/7/2023	14.7	42.3	6.49	21.1	1.9 J	2.14 U	0.695 J	2.14 U	5.79	17.5	2.14 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607-D	6/7/2023	14.8	48.3	5.26	21.2	2.2 J	2.16 U	0.924 J	2.16 U	5.87	17	2.16 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230922	9/22/2023	15.1	38.8	6.38	20	2.16 J	2.5 J	2.31 U	2.31 U	8.52	14	2.31 U
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130	1/30/2020	13.98	87.3	9.49	32.1	1.73 J	0.42 U	0.32 J	0.42 U	5.54	13.93	0.42 U
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130-D	1/30/2020	12.98	83.99	9.4	31.47	1.49 J	0.4 U	0.3 J	0.4 U	5.01	13.48	0.4 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200130	1/30/2020	12.66	90.84	8.61	32.67	1.53 J	0.42 U	0.3 J	0.42 U	5.29	13.19	0.42 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505	5/5/2020	16.58	75.82	10.56	38.43	1.95 J	0.41 U	0.48 J	0.41 UJ	7.44	17.16	0.41 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505-D	5/5/2020	16.38	85.28	10.24	41.48	2.05 J	0.41 U	0.49 J	0.41 UJ	6.96	16.69	0.41 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20190726	7/26/2019	12.52	12.27	12.33	2.5 J	2.13 J	0.34 U	0.75 J	0.42 U	5.05	9.73	0.39 J
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200505	5/5/2020	10.04	9.72	7.86	2.78 J	1.81 J	0.45 U	0.5 J	0.45 UJ	3.39 J	8.56 J+	0.45 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200916	9/16/2020	11.42	7.44	15.78	2.15 J	1.63 J	1.45 J	0.59 J	0.46 U	3.92 J	17.18	0.46 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210629	6/29/2021	15.9	10.9	20.2	1.99 J	2.09 J	0.451 U	0.451 U	0.451 U	6.45	20	0.451 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210921	9/21/2021	14.8	10.4	13.9	1.85 J	1.58 J	2.25 U	2.25 U	2.25 U	5.38	17	2.25 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220615	6/15/2022	12.8	11.6	8.81	1.47 J	1.92 J	2.18 U	0.951 J	2.18 U	4.33 J	10.9	2.18 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915	9/15/2022	12.7	8.42	9.36	2.46 J	2.22 J	2.05 U	2.05 U	2.05 U	3.95 J	14.1	2.05 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915-D	9/15/2022	10.6	8.83	8.89	2.58 J	1.8 J	2.19 U	2.19 U	2.19 U	2.75 J	11.6	2.19 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20230606	6/6/2023	12.3	8.38	9.07	1.73 J	1.55 J	2.45 U	1.11 J	2.45 U	3.98 J	15.2	1.11 J
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20190729	7/29/2019	12.31	12.5	10.26	4.67	2.44 J	0.33 U	0.78 J	0.41 U	5.66	13.68	0.32 J
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200506	5/6/2020	9.18	9.09	6.01	2.43 J	1.52 J	0.41 U	0.53 J	0.41 U	3.11 J	8.23	0.2 J
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200917	9/17/2020	8.12 J	8.73 J	7 J	2.59 U	1.31 J	0.47 J	0.45 J	0.44 UJ	3.37 J	10.77 J	0.21 J
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210630	6/30/2021	8.36	8.98 J+	9.83	2.17 J	2.03 J	0.437 U	1.1 J	0.437 U	4.43	14.3	0.437 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210922	9/22/2021	7.25	7.38	6.49	3.02 J	2.13 U	2.13 U	2.13 U	2.13 U	2.87 J	7.83	2.13 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220621	6/21/2022	9.81	8.3	4.91	2.14 J	2.09 U	2.09 U	2.09 U	2.09 U	2.75 J	8.94	2.09 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220916	9/16/2022	9.32	11.7	7.99	2.95 J	1.97 J	2.19 U	2.19 U	2.19 U	4.31 J	10.1 J	2.19 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230607	6/7/2023	8.47	7.4	4.36 J	2.05 J	1.92 J	2.26 U	0.928 J	2.26 U	10.5	16.5	2.26 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230922	9/22/2023	8.79	9.1	4.13 J	3.1 J+	2.19 J	2.33 J	2.18 U	2.18 U	5.96	8.57	2.18 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20190729	7/29/2019	5.96	9.89	3.5 J	1.75 J	0.9 J	0.33 U	0.16 J	0.41 U	2.39 J	3.4 J	0.82 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200506	5/6/2020	3.85 J	4.09 J	3 J	1.28 J	0.57 J	0.41 U	0.41 U	0.41 U	1.77 J	2.57 J	0.41 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200917	9/17/2020	4 J	4.61	3.25 J	1.71 U	0.59 J	0.44 U	0.2 J	0.44 U	1.64 J	3.13 J	0.44 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630	6/30/2021	4.28 J	5.31 J+	6.48	1.33 J	0.742 J	0.442 U	0.442 U	0.442 U	1.75 J	4.85	0.442 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630-D	6/30/2021	4.2 J	8.42 J+	6.3	1.34 J	0.83 J	0.442 U	0.442 U	0.442 U	2.22 J	4.8	0.442 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210922	9/22/2021	4.14 J	4.43 J	3.56 J	1.91 J	2.26 U	2.26 U	2.26 U	2.26 U	1.69 J	3.11 J	2.26 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220621	6/21/2022	4.9	3.76 J	2.57 J	1.37 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	3.7 J	2.1 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220916	9/16/2022	4.58	7.41 J	4.56	2.1 U	1.48 J	2.1 U	2.1 U	2.1 U	2.71 J	6.65	2.1 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230607	6/7/2023	5.49	2.37 U	2.55 J	1.73 J	1.48 J	2.37 U	2.37 U	2.37 U	3.5 J	5.02	2.37 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230922	9/22/2023	7.22	6.57	3.54 J	2.74 J+	1.96 J	2.32 J	2.17 U	2.17 U	5.55	7.35	2.17 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20190729	7/29/2019	13.29	12.98	7.32	2.08 J	1.64 J	0.33 U	0.41 J	0.41 U	4.17	7	0.82 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200506	5/6/2020	7.98	7.37	4.29	1.27 J	1.11 J	0.41 U	0.3 J	0.41 U	2.94 J	4.28	0.41 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200917	9/17/2020	8.11	8.33	4.92	1.32 U	1.06 J	0.45 U	0.32 J	0.45 U	2.67 J	5.94	0.45 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210630	6/30/2021	8.35	9.13 J+	10	1.08 J	1.35 J	0.437 U	0.437 U	0.437 U	3.41 J	8.33	0.437 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922	9/22/2021	10.4	13.3	6.04	2.17 J	2.19 U	2.19 U	2.19 U	2.19 U	3.85 J	7.7	2.19 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922-D	9/22/2021	10.5	13	5.6	2.27 J	2.13 U	2.13 U	2.13 U	2.13 UJ	3.64 J	6.21	2.13 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220621	6/21/2022	8.16	8.49	4.83	1.12 J	2.06 U	2.06 U	2.06 U	2.06 U	2.06 U	5.15	2.06 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916	9/16/2022	5.4	10 J	5.95	1.02 J	1.18 J	2.07 U	2.07 U	2.07 U	2.81 J	7.27 J	2.07 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916-D	9/16/2022	6.9	9.67	6.31	2.08 U	1.37 J	2.08 U	2.08 U	2.08 U	3.18 J	6.26	2.08 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230607	6/7/2023	9.04	10	4.21 J	1.72 J	1.62 J	2.18 U	2.18 U	2.18 U	4.06 J	8.83	2.18 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922	9/22/2023	8.59	9.36	4.91	2.19 U	2.09 J	2.23 J	2.19 U	2.19 U	5.8	11.7	0.951 J
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922-D	9/22/2023	9.04	8.74	5.12	2.21 J+	1.78 J	2.35	2.16 U	2.16 U	6.09	12.3	0.896 J
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200130	1/30/2020	8.14	18.74	5.47	7.4	1.43 J	0.4 U	0.3 J	0.4 U	2.99 J	7.32	0.4 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506	5/6/2020	10.73	27.63	6.39	9.33	1.56 J	0.41 U	0.41 J	0.41 U	3.96 J	9.45	0.41 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506-D	5/6/2020	10.04	21.01	6.54	9.47	1.58 J	0.41 U	0.49 J	0.41 U	4.05 J	8.85	0.41 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200917	9/17/2020	9.55	18.63	7.99	8.66	1.24 J	0.53 J	0.45 J	0.5 U	3.83 J	13.01	0.22 J
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-NGSHAMINY-REF4-20210111	1/11/2021	8.4	19	5	8.5	1.3 J	--	0.87 U	0.87 U	2.4	8.2	0.87 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-Neshaminy-REF4-20210315	3/15/2021	8.3	13	5.5	7.5	1.1 J	--	0.85 U	0.85 U	3.2	8	0.85 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210630	6/30/2021	11.6	20.7 J+	11	9.49	1.82 J	0.44 U	1.07 J	0.44 U	5.55	16	0.44 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210922	9/22/2021	1.45 J	4.05 J	1.16 J	2.24 J	2.19 U	2.19 U	2.19 U	2.19 U	0.958 J	2.48 J	2.19 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20211214	12/14/2021	9.2	16	5.3	8.4	1.2 J	--	0.81 U	0.81 U	4	12	0.81 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20220321	3/21/2022	9.3	15	5.4	7.3	1.2 J	--	0.47 J	0.9 UJ	3.8	10	0.9 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20220916	9/16/2022	9.23	25.1 J	8.61	9.82	2.73 J	2.19 U	2.19 U	2.19 U	4.64	13.6	2.19 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20230922	9/22/2023	9.7	15.8	5.28	9.35	2.64 J	2.41 J	2.33 U	2.33 U	6.65	10.4	2.33 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240104	1/4/2024	9.09	12.9	5.05	7.14	2.63	1.36 U	0.35 J	0.549 U	2.61	5.91	0.37 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240318	3/18/2024	10.4	15.2	5.57	8.09	1.68	1.53 U	0.455 U	0.614 U	3.12	7.34	0.414 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20190725	7/25/2019	8.59	8.27	5.28	2.26 J	1.61 J	0.33 U	0.43 J	0.41 U	4.1 J	4.67	0.82 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200504	5/4/2020	8.99	10.42	4.85	2.76 J	1.57 J	0.41 U	0.49 J	0.41 UJ	4.86	6.27 J+	0.41 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200915	9/15/2020	5.36	6.78	4.5	1.68 J	0.99 J	0.45 J	0.33 J	0.43 U	2.63 J	6.01 J+	0.43 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210629	6/29/2021	13.9	18.6	12.6	3.14 J	2.43 J	0.427 U	0.427 U	0.427 U	5.65	11.6	0.427 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210921	9/21/2021	9.26	11.7	8.15	3.52 J	1.44 J	2.19 U	2.19 U	2.19 U	5.8	6.08	2.19 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220615	6/15/2022	9.42	13.1	4.94	3.25 J	1.69 J	2.15 U	0.973 J	2.15 U	4.99	7.72	2.15 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220915	9/15/2022	6.41	7.2	4.69	2.55 J	2.29 J	2.05 U	2.05 U	2.05 U	5.01	7.82	2.05 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230606	6/6/2023	9.4	9.79	4.2 J	2.65 J	2.33 J	2.35 U	1.06 J	2.35 U	4.31 J	6.08	2.35 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230920	9/20/2023	7.71	6.01	4.55	1.78 J	2.29 J	2.14 U	0.688 J	2.14 U	6.18	8.87 J+	0.661 J
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220615	6/15/2022	13	14.4	6.09	3.14 J	2.84 J	2.26 U	2.26 U	2.26 U	6.65	8.17	2.26 U
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220915	9/15/2022	9.82	8.74	2.57 J	3.52 J	2.76 J	2.44 U	2.44 U	2.44 U	7.18	9.07	2.44 U
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20230606	6/6/2023	12.3	10.6	4.5 J	3.23 J	2.54 J	2.31 U	0.738 J	2.31 U	5.48	7.24	2.31 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20190725	7/25/2019	9.81	9.47	10.05	3.06 J	1.71 J	0.33 U	0.6 J	0.41 U	4.15	5.72	0.82 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200504	5/4/2020	14.21	11.4	11.63	4.58	2.26 J	0.45 U	0.77 J	0.45 UJ	6.71	10.73	0.45 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200915	9/15/2020	10.4	10.08	11.37	3.62 J	1.56 J	0.25 J	0.4 J	0.44 U	4.94	9.89 J+	0.44 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210628	6/28/2021	11.7	11.1	18.6	3.9 J	1.66 J	0.428 U	0.182 J	0.428 U	7.85	9.63	0.428 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210920	9/20/2021	15.7	12.9	21.5	5.43	2.41 J	2.22 U	2.22 U	2.22 U	6.44	12.2	2.22 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220614	6/14/2022	14.4	10.3	16.1 J	4.52	1.05 J	2.11 U	2.11 U	2.11 U	3.88 J	8.97	2.11 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220914	9/14/2022	7.17	10.7 J	9.2	2.38 J	1.7 J	2.06 U	0.802 J	2.06 U	3.78 J	9.09	2.06 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605	6/5/2023	9.27	9.66	7.75	3.38 J	1.87 J	2.24 U	2.24 U	2.24 U	4.69	7.9	2.24 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605-D	6/5/2023	10.2	11.3	7.93	3.83 J	2.02 J	2.13 U	2.13 U	2.13 U	5.17	7.55	0.846 J
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230919	9/19/2023	8.21	9.53	7.05	2.91 J	1.61 J	2.22 U	2.22 U	2.22 U	3.25 J	6.93	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20190725	7/25/2019	12.92	11.27	7.77	3.53 J	1.73 J	0.34 U	0.69 J	0.42 U	4.45	7.4	0.85 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200504	5/4/2020	13.61	10.35	8.07	3.85 J	2.16 J	0.43 U	0.44 J	0.43 U	6.67	11.18	0.43 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200915	9/15/2020	10.34	7.64	7.77	3.39 J	1.22 J	0.46 U	0.46 U	0.46 U	3.69 J	8.52 J+	0.46 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210628	6/28/2021	12.5	9.34	13.9	3.58 J	1.81 J	0.437 U	0.437 U	0.437 U	5.15	9.43	0.437 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920	9/20/2021	14.4	9.52	12.9	3.33 J	1.65 J	2.42 U	2.42 U	2.42 U	5.17	12.1	2.42 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PENTADECAFLUOROOCTANOIC ACID (PFOA)	PERFLUOROOCTANESULFONIC ACID (PFOS)	PERFLUOROBUTANESULFONIC ACID (PFBS)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	PERFLUORONONANOIC ACID (PFNA)	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA)	PERFLUORODECANOIC ACID (PFDA)	PERFLUORODODECANOIC ACID (PFDOA)	PERFLUOROHEPTANOIC ACID (PFHPA)	PERFLUOROHEXANOIC ACID (PFHXA)	PERFLUOROUNDECANOIC ACID (PFUNA)
Human Health PSLs (ng/L) [1,2]				210	140	21000	1200	170	5.4	NC	NC	NC	31000	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				307000	22600	400000	65300	16400	NC	2940	72000	870000	28800	49000
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				1580000	117	5710000	5500	2080	NC	660	NC	NC	2210000	NC
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920-D	9/20/2021	15.8	11	12.7	3.66 J	1.82 J	2.51 U	2.51 U	2.51 U	6.21	11.1	2.51 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PREF2-20220614	6/14/2022	16	17.5	8.78	4.48	1.34 J	2.22 U	2.22 U	2.22 U	4.04 J	6.99	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20220914	9/14/2022	7.42	10.5	7.93	3.48 J	1.26 J	2.13 U	2.13 U	2.13 U	3.31 J	6.42	2.13 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230605	6/5/2023	8.91	3.85 J	5.61	2.84 J	1.51 J	2.22 U	2.22 U	2.22 U	3.49 J	5.84	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230919	9/19/2023	14	15.5	8.95	4.36 J	1.57 J	2.5 U	2.5 U	2.5 U	5.79	10.3	2.5 U

Notes:
Result is above PSL.
Result is bolded if above Human Health PSL [(1)].
Result is italicized if above Ecological Invertebrate PSL [(2,3,4)].
Result is underlined if above Ecological Wildlife PSL [(2)].
See end notes

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421	4/21/2022	0.87 U	0.87 U	0.87 U	--	--	0.87 U	0.87 U	--	--	--	--
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421-D	4/21/2022	0.86 U	0.86 U	0.86 U	--	--	0.86 UR	0.86 U	--	--	--	--
NPA-SW/SD06	Neshaminy	NPA-SW06-20220419	4/19/2022	0.87 U	0.87 U	0.87 U	--	--	0.87 UJ	0.87 UJ	--	--	--	--
NPA-SW/SD08	Neshaminy	NPA-SW08-20220419	4/19/2022	0.92 U	0.92 U	0.92 U	--	--	0.92 UR	0.92 UR	--	--	--	--
NPA-SW/SD09	Neshaminy	NPA-SW09-20220421	4/21/2022	0.86 U	0.86 U	0.86 U	--	--	0.86 UR	0.86 U	--	--	--	--
NPA-SW/SD11	Neshaminy	NPA-SW11-20220419	4/19/2022	0.82 U	0.82 U	0.82 U	--	--	0.82 UR	0.82 UR	--	--	--	--
NPA-SW/SD21	Neshaminy	NPA-SW21-20220420	4/20/2022	0.85 U	0.85 U	0.85 U	--	--	0.85 UJ	0.85 UJ	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-022515	2/25/2015	--	--	--	--	--	--	1000	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-080717	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-080717-D	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200129	1/29/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 UR	0.44 UR	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200504	5/4/2020	0.45 UJ	0.89 UJ	0.89 UJ	--	--	1.79 UJ	0.19 J	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210112	1/12/2021	0.833 U	0.833 U	0.417 U	--	--	1.67 UJ	0.139 J	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210316	3/16/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 UJ	0.455 UJ	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210629	6/29/2021	0.475 U	0.951 U	0.951 U	--	--	1.9 U	0.475 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210921	9/21/2021	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20211215	12/15/2021	2.26 U	2.26 U	2.26 U	--	--	2.26 U	2.26 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220322	3/22/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 UJ	2.06 UJ	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220615	6/15/2022	2.32 U	2.32 U	2.32 U	--	--	2.32 UJ	2.32 UJ	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20221206	12/6/2022	2.28 U	2.28 U	2.28 U	--	--	2.28 U	2.28 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20230321	3/21/2023	2.32 U	2.32 U	2.32 U	--	--	2.32 U	2.32 U	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240103	1/3/2024	2.22 U	1.42 U	1.43 U	2.96 U	3.37 U	0.876 U	0.741 U	2.69 U	46.9 J	6.65	38.8
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240320	3/20/2024	2.29 U	1.46 U	1.47 U	3.05 U	3.47 U	0.901 U	0.763 U	2.77 U	48.8	4.93 J	26
WGNA-SW/SD-02	Neshaminy	SW-02-022515	2/25/2015	--	--	--	--	--	--	2000	--	--	--	--
WGNA-SW/SD-02	Neshaminy	SW-02-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725-D	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.86 U	0.43 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-022515	2/25/2015	--	--	--	--	--	--	3000	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-080717	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20191022	10/22/2019	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200129	1/29/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200504	5/4/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200915	9/15/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 U	0.45 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210112	1/12/2021	0.806 U	0.806 U	0.403 U	--	--	1.61 UJ	0.403 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210316	3/16/2021	0.431 U	0.862 U	0.862 U	--	--	1.72 U	0.431 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210629	6/29/2021	0.446 U	0.893 U	0.893 U	--	--	1.79 U	0.446 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210921	9/21/2021	2.15 U	2.15 U	2.15 U	--	--	2.15 UJ	2.15 UJ	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20211215	12/15/2021	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20220915	9/15/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20221206	12/6/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230321	3/21/2023	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230606	6/6/2023	2.49 U	2.49 U	2.49 U	--	--	2.49 UJ	2.49 UJ	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230920	9/20/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	13.1
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240103	1/3/2024	2.01 U	1.28 U	1.29 U	2.68 U	3.05 U	0.793 U	0.671 U	2.44 U	13.6	2.7 J	11.2
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240320	3/20/2024	1.97 U	1.26 U	1.27 U	2.63 U	2.99 U	0.777 U	0.658 U	2.39 U	14.1	5.3 J	13
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220322	3/22/2022	2.07 U	2.07 U	2.07 U	--	--	2.07 U	2.07 U	--	--	--	--
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220615	6/15/2022	2.31 U	2.31 U	2.31 U	--	--	2.31 UJ	2.31 UJ	--	--	--	--
WGNA-SW/SD-04	Neshaminy	SW-04-022515	2/25/2015	--	--	--	--	--	--	4000	--	--	--	--
WGNA-SW/SD-04	Neshaminy	SW-04-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240103	1/3/2024	1.96 U	1.25 U	1.26 U	2.61 U	2.97 U	0.772 U	0.653 U	2.37 U	5.95	1.65 U	6.9
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320	3/20/2024	1.96 U	1.25 U	1.25 U	2.6 U	2.96 U	0.77 U	0.652 U	2.37 U	5.87	1.64 U	8.19
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320-D	3/20/2024	2.06 U	1.31 U	1.32 U	2.75 U	3.13 U	0.813 U	0.688 U	2.5 U	6.53	1.73 U	9.09
WGNA-SW/SD-05	Neshaminy	SW-05-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	SW-05-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022	10/22/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022-D	10/22/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191025	10/25/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129	1/29/2020	0.41 U	0.82 U	0.82 U	--	--	1.8 J	1.36 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129-D	1/29/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UR	0.41 UR	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200504	5/4/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200915	9/15/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210112	1/12/2021	0.806 U	0.806 U	0.403 U	--	--	1.61 UJ	0.128 J	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210316	3/16/2021	0.472 U	0.943 U	0.943 U	--	--	1.89 U	0.472 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210629	6/29/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 U	0.455 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210921	9/21/2021	2.2 U	2.2 U	2.2 U	--	--	2.2 UJ	2.2 UJ	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20211215	12/15/2021	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322	3/22/2022	2.08 U	2.08 U	2.08 U	--	--	2.08 U	2.08 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322-D	3/22/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220615	6/15/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220915	9/15/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 UJ	2.1 UJ	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20221206	12/6/2022	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230321	3/21/2023	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230606	6/6/2023	2.11 U	2.11 U	2.11 U	--	--	2.11 U	2.11 U	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920	9/20/2023	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	9.72
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920-D	9/20/2023	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	10.2
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240103	1/3/2024	2.12 U	1.35 U	1.36 U	2.82 U	3.2 U	0.833 U	0.705 U	2.56 U	3.89 J	1.78 U	6.67
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240320	3/20/2024	2.08 U	1.33 U	1.34 U	2.77 U	3.15 U	0.82 U	0.694 U	2.52 U	3.59 J	1.75 U	7.99
WGNA-SW/SD-06	Neshaminy	SW-06-022515	2/25/2015	--	--	--	--	--	--	6000	--	--	--	--
WGNA-SW/SD-06	Neshaminy	SW-06-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-022315	2/23/2015	--	--	--	--	--	--	7000	--	--	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-022315	2/23/2015	--	--	--	--	--	--	8000	--	--	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220615	6/15/2022	2.21 U	2.21 U	2.21 U	--	--	2.21 UJ	2.21 UJ	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220915	9/15/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20221206	12/6/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230321	3/21/2023	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230606	6/6/2023	2.21 U	2.21 U	2.21 U	--	--	2.21 UJ	2.21 UJ	--	--	--	--
WGNA-SW/SD-09	Neshaminy	SW-09-022315	2/23/2015	--	--	--	--	--	--	9000	--	--	--	--
WGNA-SW/SD-09	Neshaminy	SW-09-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025	10/25/2019	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025-D	10/25/2019	0.45 U	0.89 U	0.89 U	--	--	1.79 U	0.45 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200129	1/29/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504	5/4/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504-D	5/4/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915	9/15/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UJ	0.42 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915-D	9/15/2020	0.42 UJ	0.83 UJ	0.83 UJ	--	--	1.67 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210112	1/12/2021	0.806 U	0.806 U	0.403 U	--	--	1.61 UJ	0.403 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210316	3/16/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 UJ	0.455 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210629	6/29/2021	0.451 U	0.903 U	0.903 U	--	--	1.81 UJ	0.451 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210921	9/21/2021	2.17 U	2.17 U	2.17 U	--	--	2.17 UJ	2.17 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215	12/15/2021	2.26 U	2.26 U	2.26 U	--	--	2.26 U	2.26 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215-D	12/15/2021	2.21 U	2.21 U	2.21 U	--	--	2.21 U	2.21 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220322	3/22/2022	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220615	6/15/2022	2.35 U	2.35 U	2.35 U	--	--	2.35 UJ	2.35 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220915	9/15/2022	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230606	6/6/2023	2.23 U	2.23 U	2.23 U	--	--	2.23 UJ	2.23 UJ	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230920	9/20/2023	2.22 U	2.22 U	2.22 U	--	--	2.22 UJ	2.22 UJ	--	--	--	7.25
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240103	1/3/2024	1.99 U	1.26 U	1.27 U	2.64 U	3.01 U	0.781 U	0.661 U	2.4 U	2.7 U	1.67 U	3.47 J
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240320	3/20/2024	2.01 U	1.28 U	1.29 U	2.68 U	3.05 U	0.793 U	0.671 U	2.44 U	2.74 U	1.69 U	4 J
WGNA-SW/SD-11	Neshaminy	SW-11-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-13	Neshaminy	SW-13-022315	2/23/2015	--	--	--	--	--	--	13000	--	--	--	--
WGNA-SW/SD-13	Neshaminy	SW-13-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-022315	2/23/2015	--	--	--	--	--	--	14000	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20190726	7/26/2019	0.38 UJ	0.38 U	0.38 U	--	--	0.91 UJ	0.45 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20191025	10/25/2019	0.41 UJ	0.82 UJ	0.82 UJ	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200129	1/29/2020	0.4 U	0.81 U	0.81 U	--	--	1.05 J	0.72 J	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200504	5/4/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200505	5/5/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 UX	0.45 UX	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200915	9/15/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200916	9/16/2020	0.42 UJ	0.85 UJ	0.85 UJ	--	--	1.69 UJ	0.42 UJ	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210112	1/12/2021	--	--	--	--	--	0.89 UJ	0.89 U	0.66 J	2.9 J	1.8 U	5.7
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210316	3/16/2021	--	--	--	--	--	0.87 U	0.87 U	0.87 U	2 J	1.7 U	5.7
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210629	6/29/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 UJ	0.442 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210921	9/21/2021	2.17 U	2.17 U	2.17 U	--	--	2.17 UJ	2.17 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20211215	12/15/2021	--	--	--	--	--	0.89 U	0.89 U	0.89 U	2.7 J	1.8 U	10
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220322	3/22/2022	--	--	--	--	--	0.85 R	0.85 U	0.85 U	1.8 J	1.7 U	7.3
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220615	6/15/2022	2.34 U	2.34 U	2.34 U	--	--	2.34 UJ	2.34 UJ	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220915	9/15/2022	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20221206	12/6/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	0.84 UJ	2.2 J	1.7 UJ	6.4 J
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230321	3/21/2023	--	--	--	--	--	0.81 U	0.81 U	0.81 U	2.1 J	1.6 U	6.1
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230606	6/6/2023	2.33 U	2.33 U	2.33 U	--	--	2.33 U	2.33 U	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230920	9/20/2023	2.1 U	2.1 U	2.1 U	--	--	2.1 UJ	2.1 UJ	--	--	--	11.3
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240103	1/3/2024	1.95 U	1.24 U	1.25 U	2.6 U	2.96 U	0.769 U	0.651 U	2.37 U	1.54 J	1.64 U	5.77
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240320	3/20/2024	2.06 U	1.31 U	1.32 U	2.75 U	3.13 U	0.813 U	0.688 U	2.5 U	1.7 J	1.73 U	6.5
WGNA-SW/SD-15	Neshaminy	SW-15-022315	2/23/2015	--	--	--	--	--	--	15000	--	--	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	SW-16-022315	2/23/2015	--	--	--	--	--	--	16000	--	--	--	--
WGNA-SW/SD-16	Neshaminy	SW-16-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.91 U	0.45 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20191025	10/25/2019	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UX	0.33 X	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200916	9/16/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112	1/12/2021	--	--	--	--	--	0.89 U	0.89 U	0.49 J	2.9 J	1.8 U	5.6
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112-D	1/12/2021	--	--	--	--	--	0.84 U	0.84 U	0.56 J	3.1 J	1.7 U	6
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210316	3/16/2021	--	--	--	--	--	0.88 UJ	0.88 U	0.88 U	3.5 U	1.8 U	5.5
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629	6/29/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 UJ	0.442 UJ	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629-D	6/29/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 U	0.442 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210921	9/21/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20211215	12/15/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	2.9 J	1.7 U	9.8
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220322	3/22/2022	--	--	--	--	--	0.84 U	0.84 U	0.84 U	1.8 J	1.7 U	6.9
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220615	6/15/2022	2.23 U	2.23 U	2.23 U	--	--	2.23 UJ	2.23 UJ	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220915	9/15/2022	2.12 U	2.12 U	2.12 U	--	--	2.12 UJ	2.12 UJ	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206	12/6/2022	--	--	--	--	--	0.85 UJ	0.85 UJ	0.85 UJ	1.8 J	1.7 UJ	6.4 J
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206-D	12/6/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	1.9 J	1.7 UJ	6.3 J
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230321	3/21/2023	--	--	--	--	--	0.84 U	0.84 U	0.84 U	1.7 J	1.7 U	5.7
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606	6/6/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606-D	6/6/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230920	9/20/2023	2.28 U	2.28 U	2.28 U	--	--	2.28 UJ	2.28 UJ	--	--	--	10.2
WGNA-SW/SD-17	Neshaminy	SW-17-022415	2/24/2015	--	--	--	--	--	--	17000	--	--	--	--
WGNA-SW/SD-17	Neshaminy	SW-17-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UX	0.2 X	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200916	9/16/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 U	0.46 U	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210112	1/12/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	4.3	1.7 U	6.4

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210316	3/16/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	2.1 J	1.7 U	5.7
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629	6/29/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	1.8 J	1.7 U	8.6
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629-D	6/29/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	3.4 U	1.7 U	9.4
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210921	9/21/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	2.7 J	1.7 U	9.6
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20211215	12/15/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	1.9 J	1.7 U	7.6
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220322	3/22/2022	--	--	--	--	--	0.83 UJ	0.83 U	0.83 U	2.4 J	1.7 U	7.3
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220615	6/15/2022	--	--	--	--	--	0.92 R	0.92 R	0.92 U	3.2 J	1.8 UJ	10
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220915	9/15/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	5.4 UJ	1.7 UJ	10 J
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20221206	12/6/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	1.5 J	1.7 UJ	6 J
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230321	3/21/2023	--	--	--	--	--	0.83 U	0.83 U	0.83 U	1.9 J	1.7 U	6.2
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230606	6/6/2023	--	--	--	--	--	1.2 U	1.2 U	0.81 U	2.6 J	1.2 U	11
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230920	9/20/2023	2.3 U	2.3 U	2.3 U	--	--	2.3 UJ	2.3 UJ	--	--	--	10.5
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230921	9/21/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	10.2
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240103	1/3/2024	1.92 U	1.22 U	1.23 U	2.55 U	2.9 U	0.755 U	0.639 U	2.32 U	6.44	1.61 U	7.01
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240320	3/20/2024	2.22 U	1.42 U	1.43 U	2.96 U	3.37 U	0.876 U	0.741 U	2.69 U	2.43 J	1.87 U	7.12
WGNA-SW/SD-18	Neshaminy	SW-18-022415	2/24/2015	--	--	--	--	--	--	18000	--	--	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200505	5/5/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200916	9/16/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-19	Neshaminy	SW-19-022415	2/24/2015	--	--	--	--	--	--	19000	--	--	--	--
WGNA-SW/SD-19	Neshaminy	SW-19-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20190726	7/26/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20191025	10/25/2019	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200505	5/5/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200916	9/16/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210112	1/12/2021	--	--	--	--	--	0.87 U	0.87 U	0.71 J	16	1.7 U	10
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210316	3/16/2021	--	--	--	--	--	0.88 U	0.88 U	0.5 J	11	1.8 U	8.9
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210629	6/29/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	9.7	1.7 U	15
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921	9/21/2021	--	--	--	--	--	0.83 UJ	0.83 U	0.83 U	11	1.7 U	11
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921-D	9/21/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	12	1.7 U	11
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20211215	12/15/2021	--	--	--	--	--	0.83 U	0.83 U	0.83 U	4.7	1.7 U	9.3
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220322	3/22/2022	--	--	--	--	--	0.88 R	0.88 U	0.88 U	6.1	1.8 U	9.8
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220615	6/15/2022	--	--	--	--	--	0.82 R	0.82 R	0.82 U	11	1.6 R	14
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220915	9/15/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	8.8 UJ	1.7 UJ	16 J
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20221206	12/6/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	9.8 J	1.7 UJ	7.2 J
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230321	3/21/2023	--	--	--	--	--	0.85 U	0.85 U	0.85 U	8.9	1.7 U	8.4
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606	6/6/2023	--	--	--	--	--	1.2 U	1.2 U	0.81 U	7.8	1.2 U	15
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606-D	6/6/2023	--	--	--	--	--	1.2 U	1.2 U	0.82 U	7.7	1.2 U	15
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921	9/21/2023	2.14 U	2.14 U	2.14 U	--	--	2.14 UJ	2.14 UJ	--	--	--	13.2
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921-D	9/21/2023	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	13.6
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240103	1/3/2024	1.93 U	1.23 U	1.24 U	2.57 U	2.92 U	0.759 U	0.642 U	2.34 U	5.18 J	1.62 U	6.04

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240319	3/19/2024	2.06 U	1.31 U	1.32 U	2.74 U	3.12 U	0.811 U	0.686 U	2.5 U	9.15	1.73 U	9.4
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240320	3/20/2024	2.18 U	1.39 U	1.4 U	2.91 U	3.31 U	0.86 U	0.727 U	2.65 U	9.13	1.84 U	9.35
WGNA-SW/SD-20	Neshaminy	SW-20-022415	2/24/2015	--	--	--	--	--	--	20000	--	--	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20190726	7/26/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20191025	10/25/2019	0.46 U	0.93 U	0.93 U	--	--	1.85 U	0.46 U	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200505	5/5/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200916	9/16/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210111	1/11/2021	--	--	--	--	--	0.86 U	0.86 U	0.73 J	15	1.7 U	10
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210315	3/15/2021	--	--	--	--	--	0.87 U	0.87 U	0.44 J	11	1.7 U	8.4
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210316	3/16/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	9.2	1.7 U	8.7
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210629	6/29/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	8.7 J	1.7 U	15
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210921	9/21/2021	--	--	--	--	--	0.82 U	0.82 U	0.82 U	9	1.6 U	12
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211214	12/14/2021	--	--	--	--	--	0.83 R	0.83 U	0.83 U	3.4 J	1.7 U	9
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211215	12/15/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	3.7 J	1.7 U	9.4
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220321	3/21/2022	--	--	--	--	--	0.86 UJ	0.86 U	0.86 U	4.2 J	1.7 U	9.8
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220322	3/22/2022	--	--	--	--	--	0.83 U	0.83 U	0.83 U	4.3	1.7 U	9.5
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220615	6/15/2022	--	--	--	--	--	0.91 R	0.91 R	0.91 U	7.7	1.8 UJ	13
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220915	9/15/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	8.5 UJ	1.7 UJ	16 J
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221205	12/5/2022	--	--	--	--	--	0.88 UJ	0.88 UJ	0.88 UJ	8.1 J	1.8 UJ	7.5 J
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221206	12/6/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	11 J	1.7 UJ	6.9 J
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230320	3/20/2023	--	--	--	--	--	0.82 R	0.82 UJ	0.82 U	7.5	1.6 U	9.2
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230321	3/21/2023	--	--	--	--	--	0.85 U	0.85 U	0.85 U	6.7	1.7 U	9
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230606	6/6/2023	--	--	--	--	--	1.3 U	1.3 U	0.84 U	6.3	1.3 U	16
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230921	9/21/2023	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	13.2
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240103	1/3/2024	1.96 U	1.25 U	1.25 U	2.6 U	2.96 U	0.77 U	0.652 U	2.37 U	8.2	1.64 U	7.4
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240319	3/19/2024	2.06 U	1.31 U	1.32 U	2.74 U	3.11 U	0.809 U	0.685 U	2.49 U	9.08	1.73 U	9.66
WGNA-SW/SD-21A	Neshaminy	SW-21A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-21A	Neshaminy	SW-21A-080717	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20191025	10/25/2019	0.45 U	0.89 U	0.89 U	--	--	1.79 U	0.16 J	--	--	--	--
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20200505	5/5/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UX	0.46 UX	--	--	--	--
WGNA-SW/SD-21B	Neshaminy	SW-21B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-22	Neshaminy	SW-22-022515	2/25/2015	--	--	--	--	--	--	22000	--	--	--	--
WGNA-SW/SD-22A	Neshaminy	SW-22A-022515	2/25/2015	--	--	--	--	--	--	22000	--	--	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-022515	2/25/2015	--	--	--	--	--	--	22000	--	--	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716-D	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717-D	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-23B	Neshaminy	SW-23B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-24A	Neshaminy	SW-24A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-24B	Neshaminy	SW-24B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-022315	2/23/2015	--	--	--	--	--	--	25000	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-022715	2/27/2015	--	--	--	--	--	--	26000	--	--	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-080717	8/7/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20190726	7/26/2019	0.34 U	0.34 U	0.34 U	--	--	0.86 U	0.43 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20191025	10/25/2019	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130-D	1/30/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 U	0.46 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200505	5/5/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 UX	0.32 X	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200916	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210112	1/12/2021	--	--	--	--	--	0.85 U	0.85 U	5.8	230	5.9	92
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316	3/16/2021	--	--	--	--	--	0.87 U	0.87 U	4.8	170	3	74
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316-D	3/16/2021	--	--	--	--	--	0.93 U	0.93 U	5.1	160	3.5	75
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210629	6/29/2021	--	--	--	--	--	0.83 U	0.83 U	4	200	6	120
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210921	9/21/2021	--	--	--	--	--	0.87 U	0.87 U	1.1 J	150	4.8	20
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20211215	12/15/2021	--	--	--	--	--	0.86 U	0.86 U	0.46 J	62	2.6	95
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220322	3/22/2022	--	--	--	--	--	0.85 U	0.85 U	1.7	130	4	67
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220615	6/15/2022	--	--	--	--	--	0.84 R	0.84 R	3.4 J	440	17	61
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220915	9/15/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	1.6 J	23 J	1.7 UJ	60 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20221206	12/6/2022	--	--	--	--	--	0.9 UJ	0.9 UJ	0.57 J	82 J	2.4 J	11 J
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230321	3/21/2023	--	--	--	--	--	0.82 U	0.82 U	2.3	220	6.8	61
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230606	6/6/2023	--	--	--	--	--	1.4 U	1.4 U	2.1	87	1.9	84
WGNA-SW/SD-27	Neshaminy	SW-27-022315	2/23/2015	--	--	--	--	--	--	27000	--	--	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-022315-D	2/23/2015	--	--	--	--	--	--	27000	--	--	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20190726	7/26/2019	0.33 UJ	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20191025	10/25/2019	0.45 U	0.91 U	0.91 U	--	--	1.82 U	0.45 U	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505	5/5/2020	0.47 U	0.94 U	0.94 U	--	--	1.89 UX	0.47 UX	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505-D	5/5/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916	9/16/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 U	0.45 U	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916-D	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210112	1/12/2021	--	--	--	--	--	0.86 U	0.86 U	3.7	200	4.3	69
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210316	3/16/2021	--	--	--	--	--	0.93 U	0.93 U	3.8	150	3.6	65
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210629	6/29/2021	--	--	--	--	--	0.87 U	0.87 U	2.5	140	2.8	90
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210921	9/21/2021	--	--	--	--	--	0.87 UJ	0.87 U	0.95 J	130	2.7	25
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215	12/15/2021	--	--	--	--	--	0.85 R	0.85 UJ	0.65 J	87	1.7 U	46
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215-D	12/15/2021	--	--	--	--	--	0.84 U	0.84 U	0.8 J	120	1.5 J	59
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322	3/22/2022	--	--	--	--	--	0.86 UJ	0.86 U	1.2 J	110	1.9 J	59
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322-D	3/22/2022	--	--	--	--	--	0.84 U	0.84 U	1.1 J	100	1.8 J	56
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615	6/15/2022	--	--	--	--	--	0.85 R	0.85 UJ	1.3 J	82	0.99 J	48
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615-D	6/15/2022	--	--	--	--	--	0.93 R	0.93 U	1.4 J	80	1.1 J	48

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915	9/15/2022	--	--	--	--	--	0.83 R	0.83 R	1.5 =	38 J	1.7 R	68 =
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915-D	9/15/2022	--	--	--	--	--	0.82 UJ	0.82 UJ	1.4 J	38 J	1.6 UJ	59 J
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20221206	12/6/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	0.85 J	110 J	3.1 J	19 J
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321	3/21/2023	--	--	--	--	--	0.85 U	0.85 U	1.5 J	130	2.6	51
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321-D	3/21/2023	--	--	--	--	--	0.82 U	0.82 U	1.5 J	120	2.7	52
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230606	6/6/2023	--	--	--	--	--	1.3 U	1.3 U	1.4 J	110	1.8	74
WGNA-SW/SD-28	Neshaminy	SW-28-022415	2/24/2015	--	--	--	--	--	--	28000	--	--	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-081017	8/10/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726	7/26/2019	0.38 U	0.38 U	0.38 U	--	--	0.94 U	0.47 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726-D	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20191025	10/25/2019	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200505	5/5/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200916	9/16/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UJ	0.42 U	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210112	1/12/2021	--	--	--	--	--	0.88 U	0.88 U	3.5	180	8.1	68
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210316	3/16/2021	--	--	--	--	--	0.91 U	0.91 U	3.6	150	3.4	60
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210629	6/29/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	1.7 J	1.7 U	9.2
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210921	9/21/2021	--	--	--	--	--	0.89 U	0.89 U	0.9 J	130	2 J	28
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20211215	12/15/2021	--	--	--	--	--	0.87 UJ	0.87 U	0.56 J	74	1.7 U	46
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220322	3/22/2022	--	--	--	--	--	0.82 R	0.82 U	1.2 J	97	2.3 J	57
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220615	6/15/2022	--	--	--	--	--	0.82 R	0.82 R	1.2 J	75	1.3 J	48
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220915	9/15/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	1.3 J	36 J	1.7 UJ	61 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20221206	12/6/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 J	110 J	2.8 J	20 J
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230321	3/21/2023	--	--	--	--	--	0.82 U	0.82 U	1.4 J	130	2.5	55
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230606	6/6/2023	--	--	--	--	--	1.2 U	1.2 U	1.1 J	84	0.6 J	69
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230921	9/21/2023	2.27 U	2.27 U	2.27 U	--	--	2.27 UJ	2.27 UJ	--	--	--	35.1
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240103	1/3/2024	1.93 U	1.23 U	1.23 U	2.56 U	2.92 U	0.758 U	0.641 U	2.33 U	96.3	2.61 J	25.1
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240320	3/20/2024	2.12 U	1.35 U	1.36 U	2.82 U	3.21 U	0.835 U	0.706 U	2.57 U	94.9	1.78 U	41.5
WGNA-SW/SD-29	Neshaminy	SW-29-022415	2/24/2015	--	--	--	--	--	--	29000	--	--	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816-D	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20190726	7/26/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20191025	10/25/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200505	5/5/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UX	0.42 UX	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200916	9/16/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210111	1/11/2021	--	--	--	--	--	0.88 U	0.88 U	0.64 J	3.5 U	1.8 U	3.9 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112	1/12/2021	--	--	--	--	--	0.87 U	0.87 U	0.73 J	3.5 U	1.7 U	4 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112-D	1/12/2021	--	--	--	--	--	0.86 U	0.86 U	0.61 J	3.4 U	1.7 U	4 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210315	3/15/2021	--	--	--	--	--	0.86 R	0.86 U	0.86 U	3.5 U	1.7 U	3.7 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210629	6/29/2021	--	--	--	--	--	0.9 U	0.9 U	0.9 U	3.6 U	1.8 U	7.7
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210921	9/21/2021	--	--	--	--	--	0.83 UJ	0.83 U	0.83 U	3.3 U	1.7 U	8.1

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20211214	12/14/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	3.4 U	1.7 U	6.2
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321	3/21/2022	--	--	--	--	--	0.87 UJ	0.87 U	0.87 U	3.5 U	1.7 U	6
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321-D	3/21/2022	--	--	--	--	--	0.86 UJ	0.86 U	0.86 U	3.4 U	1.7 U	5.7
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220615	6/15/2022	--	--	--	--	--	0.83 R	0.83 R	0.83 U	3.3 U	1.7 UJ	8.4
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220915	9/15/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	3.3 UJ	1.7 UJ	6.5 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20221205	12/5/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	1.7 UJ	1.7 UJ	4.3 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230320	3/20/2023	--	--	--	--	--	0.82 UJ	0.82 U	0.82 U	1.6 U	1.6 U	4 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230606	6/6/2023	--	--	--	--	--	1.2 U	1.2 U	0.81 U	0.81 U	1.2 U	7.8
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230921	9/21/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	7.98
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240103	1/3/2024	1.97 U	1.25 U	1.26 U	2.62 U	2.98 U	0.774 U	0.655 U	2.38 U	2.67 U	1.65 U	3.57 J
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240319	3/19/2024	2.13 U	1.36 U	1.37 U	2.84 U	3.23 U	0.84 U	0.71 U	2.58 U	2.9 U	1.79 U	4.12 J
WGNA-SW/SD-31	Neshaminy	SW-31-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-31	Neshaminy	SW-31-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20190726	7/26/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20191025	10/25/2019	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200130	1/30/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.15 J	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200505	5/5/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UX	0.2 X	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200916	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 UJ	0.44 U	--	--	--	--
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210111	1/11/2021	--	--	--	--	--	0.85 U	0.85 U	0.66 J	16	1.7 U	10
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210315	3/15/2021	--	--	--	--	--	0.9 R	0.9 U	0.46 J	10	1.8 U	8.7
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210628	6/28/2021	--	--	--	--	--	0.89 U	0.89 U	0.89 U	3.9 J	1.8 U	11
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210629	6/29/2021	--	--	--	--	--	0.87 U	0.87 U	0.87 U	5.5	1.7 U	12
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210920	9/20/2021	--	--	--	--	--	0.83 U	0.83 U	0.83 U	3.5 J	1.7 U	9.6
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220614	6/14/2022	--	--	--	--	--	0.81 UJ	0.81 U	0.81 U	2.8 J	1.6 U	9.9
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220615	6/15/2022	--	--	--	--	--	0.82 R	0.82 U	0.82 U	3.9 J	1.6 U	11
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220915	9/15/2022	--	--	--	--	--	0.93 UJ	0.93 UJ	0.93 UJ	4.3 UJ	1.9 UJ	8.3 J
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220916	9/16/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	3.4 UJ	1.7 UJ	7.4 J
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20221205	12/5/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	4.3 J	1.7 UJ	6.1 J
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230320	3/20/2023	--	--	--	--	--	0.81 R	0.81 UJ	0.81 U	6.6	1.6 U	8.1
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230605	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.8 U	3.3 J	1.2 U	13
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230606	6/6/2023	--	--	--	--	--	1.3 U	1.3 U	0.84 U	2.9 J	1.3 U	13
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230921	9/21/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	11.5
WGNA-SW/SD-32	Neshaminy	SW-32-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200505	5/5/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UX	0.46 UX	--	--	--	--
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200916	9/16/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UJ	0.43 U	--	--	--	--
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210111	1/11/2021	--	--	--	--	--	0.86 U	0.86 U	0.68 J	9.5	1.7 U	7.7
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210628	6/28/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	4.5	1.7 U	12
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210920	9/20/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	4.5	1.7 U	11
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210921	9/21/2021	--	--	--	--	--	0.83 U	0.83 U	0.83 U	4.9	1.7 U	10
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20211214	12/14/2021	--	--	--	--	--	0.87 UJ	0.87 U	0.87 U	1.7 J	1.7 U	7.7
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20220321	3/21/2022	--	--	--	--	--	0.85 U	0.85 U	0.85 U	2.2 J	1.7 U	7.3
WGNA-SW/SD-33	Neshaminy	SW-33-022415	2/24/2015	--	--	--	--	--	--	33000	--	--	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-022415-D	2/24/2015	--	--	--	--	--	--	33000	--	--	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20200505	5/5/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210111	1/11/2021	--	--	--	--	--	0.86 U	0.86 U	0.69 J	12	1.7 U	8.3
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210628	6/28/2021	--	--	--	--	--	0.83 U	0.83 U	0.83 U	4.4	1.7 U	13
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210920	9/20/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	4.4	1.7 U	11
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214	12/14/2021	--	--	--	--	--	0.83 U	0.83 U	0.83 U	2.3 J	1.7 U	9.8
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214-D	12/14/2021	--	--	--	--	--	0.84 UJ	0.84 U	0.84 U	3.4 U	1.7 U	7.8
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220321	3/21/2022	--	--	--	--	--	0.86 U	0.86 U	0.86 U	2.1 J	1.7 U	7.4
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220614	6/14/2022	--	--	--	--	--	0.83 R	0.83 UJ	0.83 U	3.7 J	1.7 U	10
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916	9/16/2022	--	--	--	--	--	0.83 R	0.83 UJ	0.83 UJ	2 J	1.7 UJ	12 J
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916-D	9/16/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	2.2 J	1.7 UJ	13 J
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20221205	12/5/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	0.84 UJ	2.7 J	1.7 UJ	6.1 J
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320	3/20/2023	--	--	--	--	--	0.85 R	0.85 R	0.85 U	3.9	1.7 UJ	6.9
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320-D	3/20/2023	--	--	--	--	--	0.87 UJ	0.87 U	0.87 U	3.6	1.7 U	6.5
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230605	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.83 U	2.9 J	1.2 U	12
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230921	9/21/2023	2.28 U	2.28 U	2.28 U	--	--	2.28 U	2.28 U	--	--	--	10.7
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240103	1/3/2024	1.97 U	1.25 U	1.26 U	2.62 U	2.98 U	0.776 U	0.656 U	2.39 U	4.39 J	1.66 U	5.83
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240319	3/19/2024	2.09 U	1.33 U	1.34 U	2.78 U	3.16 U	0.822 U	0.695 U	2.53 U	6.33	1.75 U	7.61
WGNA-SW/SD-34	Neshaminy	SW-34-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-34	Neshaminy	SW-34-081017	8/10/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-34	Neshaminy	SW-34-081017-D	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20190726	7/26/2019	0.38 U	0.38 U	0.38 U	--	--	0.94 U	0.47 U	--	--	--	--
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20191025	10/25/2019	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200130	1/30/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200505	5/5/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UJ	0.46 UJ	--	--	--	--
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200916	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20191025	10/25/2019	0.41 UJ	0.82 UJ	0.82 UJ	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200130	1/30/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.45 UJ	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200916	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210111	1/11/2021	--	--	--	--	--	0.86 U	0.86 U	0.66 J	11	1.7 U	8.5
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210315	3/15/2021	--	--	--	--	--	0.61 J	0.9 U	0.9 U	5.9	1.8 U	7.1
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210628	6/28/2021	--	--	--	--	--	0.87 U	0.87 U	0.87 U	4.6	1.7 U	13
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210920	9/20/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	4.2 J	1.7 U	12
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20211214	12/14/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	2.2 J	1.7 U	8.1
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220321	3/21/2022	--	--	--	--	--	0.86 UJ	0.86 U	0.86 U	2.7 J	1.7 U	7.7
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220614	6/14/2022	--	--	--	--	--	0.81 UJ	0.81 U	0.81 U	3.9 J	1.6 U	11
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220916	9/16/2022	--	--	--	--	--	0.86 UJ	0.86 UJ	0.86 UJ	2.4 J	1.7 UJ	12 J
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20221205	12/5/2022	--	--	--	--	--	0.85 UJ	0.85 UJ	0.85 UJ	2.8 J	1.7 UJ	5.8 J
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230320	3/20/2023	--	--	--	--	--	0.84 UJ	0.84 U	0.84 U	3.5	1.7 U	8
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.82 U	3.4 J	1.2 U	13
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605-D	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.81 U	2.7 J	1.2 U	13
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230921	9/21/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	10.8
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240103	1/3/2024	2.05 U	1.3 U	1.31 U	2.73 U	3.1 U	0.806 U	0.682 U	2.48 U	4.61 J	1.72 U	6.56
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240104	1/4/2024	2 U	1.28 U	1.28 U	2.67 U	3.03 U	0.789 U	0.667 U	2.43 U	5.09 J	1.68 U	7
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240319	3/19/2024	2.15 U	1.37 U	1.38 U	2.87 U	3.26 U	0.848 U	0.717 U	2.61 U	7.68	1.81 U	7.97

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-35	Neshaminy	SW-35-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-022415	2/24/2015	--	--	--	--	--	--	36000	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190726	7/26/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505	5/5/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UX	0.46 UX	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505-D	5/5/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506-D	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916	9/16/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916-D	9/16/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UJ	0.43 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200917	9/17/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 UJ	0.44 UJ	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210628	6/28/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	3.4 J	1.7 U	12
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210630	6/30/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 U	0.442 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210920	9/20/2021	--	--	--	--	--	0.88 U	0.88 U	0.88 U	2.3 J	1.8 U	11
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210922	9/22/2021	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220614	6/14/2022	--	--	--	--	--	0.84 UJ	0.84 U	0.42 J	2.3 J	1.7 U	12
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220621	6/21/2022	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220916	9/16/2022	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230605	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.8 U	1.7 J	1.2 U	13
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230607	6/7/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921	9/21/2023	2.33 U	2.33 U	2.33 U	--	--	2.33 U	2.33 U	--	--	--	5.13
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921-D	9/21/2023	2.32 U	2.32 U	2.32 U	--	--	2.32 UJ	2.32 UJ	--	--	--	5.06
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230922	9/22/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	9.83
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20240319	3/19/2024	2.05 U	1.3 U	1.31 U	2.73 U	3.1 U	0.806 U	0.682 U	2.48 U	5.13 J	1.72 U	7.23
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220621	6/21/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220916	9/16/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20221205	12/5/2022	2.39 U	2.39 U	2.39 U	--	--	2.39 U	2.39 U	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230320	3/20/2023	2.27 U	2.27 U	2.27 U	--	--	2.27 UJ	2.27 UJ	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230607	6/7/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230922	9/22/2023	2.24 U	2.24 U	2.24 U	--	--	2.24 UJ	2.24 UJ	--	--	--	25.6
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240104	1/4/2024	2.01 U	1.28 U	1.29 U	2.68 U	3.04 U	0.792 U	0.67 U	2.44 U	3.21 J	1.69 U	6.31
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240319	3/19/2024	2.21 U	1.41 U	1.42 U	2.94 U	3.35 U	0.87 U	0.736 U	2.68 U	4.32 J	1.86 U	6.55
WGNA-SW/SD-37	Neshaminy	SW-37-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-022715	2/27/2015	--	--	--	--	--	--	39000	--	--	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20220621	6/21/2022	2.09 U	2.09 U	2.09 U	--	--	2.09 U	2.09 U	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20221205	12/5/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	0.84 UJ	0.96 J	1.7 UJ	10 J
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230320	3/20/2023	--	--	--	--	--	0.83 U	0.83 U	0.83 U	1.7 U	1.7 U	11
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230607	6/7/2023	2.21 U	2.21 U	2.21 U	--	--	2.21 U	2.21 U	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230922	9/22/2023	2.49 U	2.49 U	2.49 U	--	--	2.49 U	2.49 U	--	--	--	14.6
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103	1/3/2024	2.03 UJ	1.29 UJ	1.3 UJ	2.7 UJ	3.07 UJ	0.797 UJ	0.675 UJ	2.45 UJ	2.75 UJ	1.7 UJ	8.72 J
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103-D	1/3/2024	1.95 UJ	1.24 UJ	1.25 UJ	2.59 UJ	2.95 UJ	0.767 UJ	0.649 UJ	2.36 UJ	2.65 UJ	1.64 UJ	8.75 J
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319	3/19/2024	2.03 U	1.29 U	1.3 U	2.7 U	3.07 U	0.797 U	0.675 U	2.45 U	2.75 U	1.7 U	9.59

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319-D	3/19/2024	2.19 U	1.39 U	1.4 U	2.91 U	3.31 U	0.861 U	0.729 U	2.65 U	2.97 U	1.84 U	9.58
WGNA-SW/SD-40	Neshaminy	SW-40-022715	2/27/2015	--	--	--	--	--	--	40000	--	--	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-022715-D	2/27/2015	--	--	--	--	--	--	40000	--	--	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	SW-41-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726-D	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025	10/25/2019	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025-D	10/25/2019	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200130	1/30/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 UJ	0.4 UJ	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200505	5/5/2020	0.47 U	0.94 U	0.94 U	--	--	1.89 UX	0.47 UX	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200916	9/16/2020	0.49 U	0.98 U	0.98 U	--	--	1.96 U	0.49 U	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210111	1/11/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	14	1.3 J	14
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315	3/15/2021	--	--	--	--	--	0.87 U	0.87 U	0.87 U	8.9	0.93 J	13
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315-D	3/15/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	9.1	1.7 U	13
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628	6/28/2021	--	--	--	--	--	0.86 U	0.86 U	0.86 U	9.4	1.7 U	20
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628-D	6/28/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	8.8	1.7 U	20
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210920	9/20/2021	--	--	--	--	--	0.85 UJ	0.85 U	0.85 U	7.5	1.7 U	18
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20211214	12/14/2021	--	--	--	--	--	0.82 UJ	0.82 U	0.82 U	8.5	1.6 U	16
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220321	3/21/2022	--	--	--	--	--	0.85 R	0.85 UJ	0.85 U	8.6	1.7 U	13
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220614	6/14/2022	--	--	--	--	--	0.83 UJ	0.83 U	0.83 U	8.2 J	1.7 U	14
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220916	9/16/2022	--	--	--	--	--	0.9 UJ	0.9 UJ	0.9 UJ	7 J	1.8 UJ	17 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205	12/5/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	14 J	2.5 J	13 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205-D	12/5/2022	--	--	--	--	--	0.85 UJ	0.85 UJ	0.85 UJ	8.9 J	1.1 J	13 J
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230320	3/20/2023	--	--	--	--	--	0.91 U	0.91 U	0.91 U	9.8	1.8 U	14
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230605	6/5/2023	--	--	--	--	--	1.4 U	1.4 U	0.91 U	6	1.4 U	27
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230921	9/21/2023	2.17 U	2.17 U	2.17 U	--	--	2.17 UJ	2.17 UJ	--	--	--	16.8
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20240319	3/19/2024	2.28 U	1.45 U	1.46 U	3.03 U	3.45 U	0.897 U	0.759 U	2.76 U	9.5	1.92 U	13.5
WGNA-SW/SD-42	Neshaminy	SW-42-022415	2/24/2015	--	--	--	--	--	--	42000	--	--	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-081017	8/10/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20191025	10/25/2019	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200130	1/30/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UX	0.45 UX	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200916	9/16/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 U	0.45 U	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210111	1/11/2021	--	--	--	--	--	0.84 U	0.84 U	0.84 U	18	1.6 J	14
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210315	3/15/2021	--	--	--	--	--	0.88 UJ	0.88 U	0.88 U	12	1.1 J	14
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210628	6/28/2021	--	--	--	--	--	0.83 R	0.83 U	0.83 U	18	1.1 J	21
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920	9/20/2021	--	--	--	--	--	0.82 U	0.82 U	0.82 U	13	1.6 U	18
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920-D	9/20/2021	--	--	--	--	--	0.82 U	0.82 U	0.82 U	12	1.6 U	18
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20211214	12/14/2021	--	--	--	--	--	0.87 UJ	0.87 U	0.87 U	15	1.7 U	16
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220321	3/21/2022	--	--	--	--	--	0.86 UJ	0.86 U	0.86 U	11	0.99 J	13
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220614	6/14/2022	--	--	--	--	--	0.84 UJ	0.84 U	0.84 U	13 J	1.7 U	15
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220916	9/16/2022	--	--	--	--	--	0.85 R	0.85 UJ	0.85 UJ	15 J	1.7 UJ	18 J

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20221205	12/5/2022	--	--	--	--	--	0.83 UJ	0.83 UJ	0.83 UJ	12 J	1.7 UJ	13 J
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230320	3/20/2023	--	--	--	--	--	0.87 UJ	0.87 U	0.87 U	14	1.7 U	15
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230605	6/5/2023	--	--	--	--	--	1.2 U	1.2 U	0.82 U	10	1.2 U	24
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230921	9/21/2023	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	16
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240103	1/3/2024	1.99 U	1.26 U	1.27 U	2.64 U	3.01 U	0.781 U	0.661 U	2.4 U	9.18	1.67 U	12.5
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240319	3/19/2024	2.15 U	1.37 U	1.38 U	2.86 U	3.25 U	0.846 U	0.716 U	2.6 U	12.5	1.81 U	13.8
WGNA-SW/SD-43	Pennypack	SW-43-022515	2/25/2015	--	--	--	--	--	--	43000	--	--	--	--
WGNA-SW/SD-43	Pennypack	SW-43-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-43	Pennypack	SW-43-081017	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-43A	Pennypack	SW-43A-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-43A	Pennypack	SW-43A-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-43A	Pennypack	SW-43A-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-43B	Pennypack	SW-43B-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-022515	2/25/2015	--	--	--	--	--	--	44000	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516-D	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-081017	8/11/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	SW-45-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	SW-45-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	SW-45-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725-D	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20191022	10/22/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200129	1/29/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200504	5/4/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.45 UJ	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200915	9/15/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.45 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210111	1/11/2021	0.912 U	0.912 U	0.456 U	--	--	1.82 U	0.456 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210315	3/15/2021	0.424 U	0.847 U	0.847 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210628	6/28/2021	0.431 U	0.862 U	0.862 U	--	--	1.72 U	0.431 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210920	9/20/2021	2.26 U	2.26 U	2.26 U	--	--	2.26 U	2.26 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20211214	12/14/2021	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220321	3/21/2022	2.14 U	2.14 U	2.14 U	--	--	2.14 UJ	2.14 UJ	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220614	6/14/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220914	9/14/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205	12/5/2022	2.23 U	2.23 U	2.23 U	--	--	2.23 U	2.23 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205-D	12/5/2022	2.32 U	2.32 U	2.32 U	--	--	2.32 U	2.32 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230320	3/20/2023	2.39 U	2.39 U	2.39 U	--	--	2.39 U	2.39 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230605	6/5/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230919	9/19/2023	2.18 U	2.18 U	2.18 U	--	--	2.18 UJ	2.18 UJ	--	--	--	31.4
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240104	1/4/2024	2 U	1.27 U	1.28 U	2.66 U	3.03 U	0.787 U	0.666 U	2.42 U	2.72 U	1.68 U	28.9
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240318	3/18/2024	2.12 U	1.35 U	1.36 U	2.83 U	3.22 U	0.836 U	0.708 U	2.57 U	2.78 J	1.79 U	22.6
WGNA-SW/SD-46	Pennypack	SW-46-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	SW-46-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20191022	10/22/2019	0.47 U	0.94 U	0.94 U	--	--	1.89 U	0.47 U	--	--	--	--

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200129	1/29/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 UJ	0.4 UJ	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200504	5/4/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111	1/11/2021	1 U	1 U	0.5 U	--	--	2 U	0.5 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111-D	1/11/2021	0.847 U	0.847 U	0.424 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210315	3/15/2021	0.49 U	0.98 U	0.98 U	--	--	1.96 UJ	0.49 UJ	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210628	6/28/2021	0.43 U	0.859 U	0.859 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920	9/20/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920-D	9/20/2021	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20211214	12/14/2021	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220321	3/21/2022	2.14 U	2.14 U	2.14 U	--	--	2.14 UJ	2.14 UJ	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220614	6/14/2022	2.23 U	2.23 U	2.23 U	--	--	2.23 U	2.23 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220914	9/14/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20221205	12/5/2022	2.51 U	2.51 U	2.51 U	--	--	2.51 U	2.51 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230320	3/20/2023	2.52 U	2.52 U	2.52 U	--	--	2.52 U	2.52 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230605	6/5/2023	2.34 U	2.34 U	2.34 U	--	--	2.34 U	2.34 U	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230919	9/19/2023	2.5 U	2.5 U	2.5 U	--	--	2.5 UJ	2.5 UJ	--	--	--	17.7
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240104	1/4/2024	2.11 U	1.34 U	1.35 U	2.8 U	3.19 U	0.83 U	0.702 U	2.55 U	2.86 U	1.77 U	21.3
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240318	3/18/2024	2.34 U	1.49 U	1.5 U	3.12 U	3.55 U	0.923 U	0.781 U	2.84 U	1.76 J	1.97 U	19.9
WGNA-SW/SD-47	Pennypack	SW-47-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	SW-47-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210111	1/11/2021	0.847 U	0.847 U	0.424 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210315	3/15/2021	0.446 U	0.893 U	0.893 U	--	--	1.79 U	0.446 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210628	6/28/2021	0.437 U	0.874 U	0.874 U	--	--	1.75 U	0.437 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210920	9/20/2021	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20211214	12/14/2021	2.26 U	2.26 U	2.26 U	--	--	2.26 U	2.26 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220321	3/21/2022	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220614	6/14/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220914	9/14/2022	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20221205	12/5/2022	2.58 U	2.58 U	2.58 U	--	--	2.58 UJ	2.58 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230320	3/20/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230605	6/5/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230919	9/19/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 UJ	2.31 UJ	--	--	--	6.04
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240104	1/4/2024	1.94 U	1.23 U	1.24 U	2.58 U	2.94 U	0.763 U	0.646 U	2.35 U	2.63 U	1.63 U	5.82
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240318	3/18/2024	2.11 U	1.34 U	1.35 U	2.8 U	3.19 U	0.83 U	0.702 U	2.55 U	2.86 U	1.77 U	5.41 J
WGNA-SW/SD-48	Pennypack	SW-48-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	SW-48-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20191022	10/22/2019	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200129	1/29/2020	0.4 U	0.81 U	0.81 U	--	--	3.57 J	1.84 J	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200504	5/4/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 UX	0.45 UX	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200915	9/15/2020	0.48 U	0.96 U	0.96 U	--	--	1.92 U	0.48 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210111	1/11/2021	0.933 U	0.933 U	0.466 U	--	--	1.87 U	0.466 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210315	3/15/2021	0.431 U	0.862 U	0.862 U	--	--	1.72 UJ	0.431 UJ	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210628	6/28/2021	0.436 U	0.871 U	0.871 U	--	--	1.74 U	0.436 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210920	9/20/2021	2.25 U	2.25 U	2.25 U	--	--	2.25 U	2.25 U	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20211214	12/14/2021	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220321	3/21/2022	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220614	6/14/2022	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220914	9/14/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20221205	12/5/2022	2.34 U	2.34 U	2.34 U	--	--	2.34 U	2.34 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320	3/20/2023	2.23 U	2.23 U	2.23 U	--	--	2.23 U	2.23 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320-D	3/20/2023	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230605	6/5/2023	2.3 U	2.3 U	2.3 U	--	--	2.3 U	2.3 U	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230919	9/19/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	4.12 J
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104	1/4/2024	2.08 U	1.32 U	1.33 U	2.77 U	3.15 U	0.819 U	0.693 U	2.52 U	2.82 U	1.75 U	2.51 J
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104-D	1/4/2024	2.02 U	1.29 U	1.29 U	2.69 U	3.06 U	0.794 U	0.672 U	2.44 U	2.74 U	1.7 U	2.67 J
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240318	3/18/2024	2.16 U	1.37 U	1.38 U	2.87 U	3.27 U	0.85 U	0.719 U	2.61 U	2.93 U	1.81 U	2.71 J
WGNA-SW/SD-49	Pennypack	SW-49-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200129	1/29/2020	0.42 U	0.85 U	0.85 U	--	--	1.69 UJ	0.42 UJ	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200504	5/4/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210111	1/11/2021	0.887 U	0.887 U	0.443 U	--	--	1.77 U	0.443 U	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210315	3/15/2021	0.446 U	0.893 U	0.893 U	--	--	1.79 U	0.446 U	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20240318	3/18/2024	2.11 U	1.34 U	1.35 U	2.81 U	3.2 U	0.831 U	0.703 U	2.56 U	6.91	1.78 U	33.8
WGNA-SW/SD-51	Neshaminy	SW-51-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-51	Neshaminy	SW-51-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220322	3/22/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220615	6/15/2022	2.56 U	2.56 U	2.56 U	--	--	2.56 UJ	2.56 UJ	--	--	--	--
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220915	9/15/2022	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	--
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20221206	12/6/2022	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	SW-52-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-52	Neshaminy	SW-52-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.86 U	0.43 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200129	1/29/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UR	0.13 J	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200504	5/4/2020	0.47 U	0.94 U	0.94 U	--	--	1.89 U	0.23 J	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210112	1/12/2021	0.98 U	0.98 U	0.49 U	--	--	1.96 UJ	0.49 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210316	3/16/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 U	0.455 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210921	9/21/2021	2.1 U	2.1 U	2.1 U	--	--	2.1 UJ	2.1 UJ	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20211215	12/15/2021	2.34 U	2.34 U	2.34 U	--	--	2.34 U	2.34 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20220322	3/22/2022	2.37 U	2.37 U	2.37 U	--	--	2.37 U	2.37 U	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20230321	3/21/2023	2.22 U	2.22 U	2.22 U	--	--	2.22 UJ	2.22 UJ	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320	3/20/2024	2.22 U	1.41 U	1.42 U	2.95 U	3.36 U	0.874 U	0.739 U	2.69 U	3.01 U	1.87 U	4.44 J
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320-D	3/20/2024	2.01 U	1.28 U	1.29 U	2.68 U	3.05 U	0.793 U	0.671 U	2.44 U	2.74 U	1.69 U	4.51 J
WGNA-SW/SD-53	Pennypack	SW-53-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200129	1/29/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.27 J	--	--	--	--
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200504	5/4/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.19 J	--	--	--	--
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210111	1/11/2021	1.06 U	1.06 U	0.53 U	--	--	2.12 U	0.53 U	--	--	--	--
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210315	3/15/2021	0.472 U	0.943 U	0.943 U	--	--	1.89 U	0.472 U	--	--	--	--
WGNA-SW/SD-54	Pennypack	SW-54-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200129	1/29/2020	0.4 U	0.79 U	0.79 U	--	--	1.59 UJ	0.4 UJ	--	--	--	--
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200504	5/4/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 UJ	0.44 UJ	--	--	--	--

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210111	1/11/2021	0.912 U	0.912 U	0.456 U	--	--	1.82 U	0.456 U	--	--	--	--
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210315	3/15/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 UJ	0.455 UJ	--	--	--	--
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20220321	3/21/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20240318	3/18/2024	2.03 U	1.29 U	1.3 U	2.7 U	3.07 U	0.799 U	0.676 U	2.46 U	12.6	1.71 U	32.4
WGNA-SW/SD-55	Pennypack	SW-55-081117	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	SW-56-081117	8/11/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	SW-56-081117-D	8/11/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200129	1/29/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.28 J	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200504	5/4/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 UJ	0.45 UJ	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915	9/15/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UJ	0.46 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915-D	9/15/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.45 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210111	1/11/2021	0.839 U	0.839 U	0.419 U	--	--	1.68 U	0.419 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315	3/15/2021	0.424 U	0.847 U	0.847 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315-D	3/15/2021	0.424 U	0.847 U	0.847 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210628	6/28/2021	0.434 U	0.868 U	0.868 U	--	--	1.74 U	0.434 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210920	9/20/2021	2.21 U	2.21 U	2.21 U	--	--	2.21 U	2.21 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214	12/14/2021	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214-D	12/14/2021	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321	3/21/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321-D	3/21/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614	6/14/2022	2.21 U	2.21 U	2.21 U	--	--	2.21 U	2.21 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614-D	6/14/2022	2.14 U	2.14 U	2.14 U	--	--	2.14 U	2.14 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220914	9/14/2022	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220915	9/15/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20221205	12/5/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230320	3/20/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230605	6/5/2023	2.39 U	2.39 U	2.39 U	--	--	2.39 U	2.39 U	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230919	9/19/2023	2.42 U	2.42 U	2.42 U	--	--	2.42 UJ	2.42 UJ	--	--	--	6.09
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20240104	1/4/2024	2 U	1.27 U	1.28 U	2.66 U	3.03 U	0.787 U	0.666 U	2.42 U	2.72 U	1.68 U	5.41 J
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318	3/18/2024	2.22 U	1.41 U	1.42 U	2.95 U	3.36 U	0.874 U	0.739 U	2.69 U	3.01 U	1.87 U	6.2 J
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318-D	3/18/2024	2.33 U	1.48 U	1.49 U	3.1 U	3.53 U	0.917 U	0.776 U	2.82 U	3.16 U	1.96 U	5.88 J
WGNA-SW/SD-57	Neshaminy	SW-57-080717	8/7/2017	--	--	--	--	--	5.8 U	5.8 U	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20190726	7/26/2019	0.36 U	0.36 U	0.36 U	--	--	0.89 U	0.45 U	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200130	1/30/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UJ	0.45 UJ	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210111	1/11/2021	--	--	--	--	--	0.96 U	0.96 U	0.96 U	3.9 U	1.9 U	11
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210315	3/15/2021	--	--	--	--	--	0.92 R	0.92 U	0.92 U	3.7 U	1.8 U	9.8
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210920	9/20/2021	--	--	--	--	--	0.92 U	0.92 U	0.92 U	3.7 U	1.8 U	12
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220321	3/21/2022	--	--	--	--	--	0.84 UJ	0.84 U	0.84 U	3.4 U	1.7 U	12
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614	6/14/2022	--	--	--	--	--	0.84 R	0.84 UJ	0.84 U	3.4 U	1.7 U	9.7
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614-D	6/14/2022	--	--	--	--	--	0.82 R	0.82 UJ	0.82 U	3.3 U	1.6 U	9.8
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20221205	12/5/2022	--	--	--	--	--	0.84 UJ	0.84 UJ	0.84 UJ	1.7 UJ	1.7 UJ	23 J
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20230320	3/20/2023	--	--	--	--	--	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	9.8
WGNA-SW/SD-61	Pennypack	SW-61-081117	8/11/2017	--	--	--	--	--	6 U	6 U	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-62	Pennypack	SW-62-081117	8/11/2017	--	--	--	--	--	6 U	6 U	--	--	--	--
WGNA-SW/SD-62	Pennypack	SW-62-081117-D	8/11/2017	--	--	--	--	--	6.3 U	6.3 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190726	7/26/2019	0.37 U	0.37 U	0.37 U	--	--	0.93 U	0.46 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20191025	10/25/2019	0.42 U	0.85 U	0.85 U	--	--	1.69 U	0.42 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200129	1/29/2020	0.41 U	0.82 U	0.82 U	--	--	0.62 J	0.18 J	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200504	5/4/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200915	9/15/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 U	0.45 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210112	1/12/2021	0.82 U	0.82 U	0.41 U	--	--	1.64 UJ	0.41 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210316	3/16/2021	0.472 U	0.943 U	0.943 U	--	--	1.89 U	0.472 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210629	6/29/2021	0.439 U	0.877 U	0.877 U	--	--	1.75 U	0.439 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210921	9/21/2021	2.22 U	2.22 U	2.22 U	--	--	2.22 UJ	2.22 UJ	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20211215	12/15/2021	2.27 U	2.27 U	2.27 U	--	--	2.27 U	2.27 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220322	3/22/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615	6/15/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615-D	6/15/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220915	9/15/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20221206	12/6/2022	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230321	3/21/2023	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230606	6/6/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230920	9/20/2023	2.12 U	2.12 U	2.12 U	--	--	2.12 UJ	2.12 UJ	--	--	--	8.77
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103	1/3/2024	1.92 UJ	1.22 UJ	1.23 UJ	2.56 UJ	2.91 UJ	0.757 UJ	0.64 UJ	2.33 UJ	1.53 J	1.62 UJ	4.77 J
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103-D	1/3/2024	1.96 UJ	1.25 UJ	1.25 UJ	2.6 UJ	2.96 UJ	0.77 UJ	0.652 UJ	2.37 UJ	2.66 UJ	1.64 UJ	4.75 J
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240320	3/20/2024	2.09 U	1.33 U	1.34 U	2.78 U	3.16 U	0.822 U	0.695 U	2.53 U	2.84 U	1.75 U	5.71 J
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20191022	10/22/2019	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200129	1/29/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 UJ	0.4 UJ	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200504	5/4/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200915	9/15/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 U	0.41 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112	1/12/2021	0.862 U	0.862 U	0.431 U	--	--	1.72 U	0.431 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112-D	1/12/2021	0.847 U	0.847 U	0.424 U	--	--	1.69 U	0.424 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316	3/16/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 U	0.455 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316-D	3/16/2021	0.455 U	0.909 U	0.909 U	--	--	1.82 U	0.455 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210629	6/29/2021	0.445 U	0.89 U	0.89 U	--	--	1.78 U	0.445 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210921	9/21/2021	2.12 U	2.12 U	2.12 U	--	--	2.12 U	2.12 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20211215	12/15/2021	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220322	3/22/2022	2.05 U	2.05 U	2.05 U	--	--	2.05 U	2.05 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220615	6/15/2022	2.18 U	2.18 U	2.18 U	--	--	2.18 UJ	2.18 UJ	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220915	9/15/2022	2.04 U	2.04 U	2.04 U	--	--	2.04 U	2.04 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206	12/6/2022	2.3 U	2.3 U	2.3 U	--	--	2.3 U	2.3 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206-D	12/6/2022	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321	3/21/2023	2.04 U	2.04 U	2.04 U	--	--	2.04 U	2.04 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321-D	3/21/2023	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230606	6/6/2023	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230920	9/20/2023	2.15 U	2.15 U	2.15 U	--	--	2.15 UJ	2.15 UJ	--	--	--	5.83

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20240320	3/20/2024	2.15 U	1.37 U	1.38 U	2.86 U	3.25 U	0.846 U	0.716 U	2.6 U	2.92 U	1.81 U	4.78 J
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729-D	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917	9/17/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917-D	9/17/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210630	6/30/2021	0.434 U	0.868 U	0.868 U	--	--	1.74 U	0.434 U	--	--	--	--
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210922	9/22/2021	2.4 U	2.4 U	2.4 U	--	--	2.4 UJ	2.4 UJ	--	--	--	--
WGNA-SW/SD-66	Pennypack	WGNA-SW-66-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.18 J	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.83 U	0.42 U	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200917	9/17/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210630	6/30/2021	0.51 U	1.02 U	1.02 U	--	--	2.04 U	0.51 U	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210922	9/22/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621	6/21/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621-D	6/21/2022	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20230607	6/7/2023	2.27 U	2.27 U	2.27 U	--	--	2.27 U	2.27 U	--	--	--	--
WGNA-SW/SD-68	Neshaminy	WGNA-SW-68-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200504	5/4/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200915	9/15/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 UJ	0.42 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210628	6/28/2021	0.422 U	0.845 U	0.845 U	--	--	1.69 U	0.422 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210920	9/20/2021	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220614	6/14/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220914	9/14/2022	2.12 U	2.12 U	2.12 U	--	--	2.12 U	2.12 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230605	6/5/2023	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919	9/19/2023	2.42 U	2.42 U	2.42 U	--	--	2.42 UJ	2.42 UJ	--	--	--	6.99
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919-D	9/19/2023	2.25 U	2.25 U	2.25 U	--	--	2.25 UJ	2.25 UJ	--	--	--	7.47
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200504	5/4/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UX	0.46 UX	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200915	9/15/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628	6/28/2021	0.425 U	0.85 U	0.85 U	--	--	1.7 U	0.425 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628-D	6/28/2021	0.428 U	0.856 U	0.856 U	--	--	1.71 U	0.428 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210920	9/20/2021	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220614	6/14/2022	2.2 U	2.2 U	2.2 U	--	--	2.2 U	2.2 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914	9/14/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914-D	9/14/2022	2.12 U	2.12 U	2.12 U	--	--	2.12 U	2.12 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230605	6/5/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230919	9/19/2023	2.3 U	2.3 U	2.3 U	--	--	2.3 UJ	2.3 UJ	--	--	--	4.85
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200506	5/6/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 UX	0.46 UX	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200917	9/17/2020	0.5 U	1 U	1 U	--	--	2 U	0.5 U	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210630	6/30/2021	0.446 U	0.893 U	0.893 U	--	--	1.79 UJ	0.446 UJ	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210922	9/22/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220621	6/21/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 UJ	2.06 UJ	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220916	9/16/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607	6/7/2023	2.14 U	2.14 U	2.14 U	--	--	2.14 UJ	2.14 UJ	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607-D	6/7/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 UJ	2.16 UJ	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230922	9/22/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	10.6
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130	1/30/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130-D	1/30/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 U	0.4 U	--	--	--	--
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200130	1/30/2020	0.42 U	0.83 U	0.83 U	--	--	1.67 U	0.42 U	--	--	--	--
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505	5/5/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505-D	5/5/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20190726	7/26/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200505	5/5/2020	0.45 U	0.89 U	0.89 U	--	--	1.79 UX	0.27 X	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200916	9/16/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 U	0.46 U	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210629	6/29/2021	0.451 U	0.903 U	0.903 U	--	--	1.81 UJ	0.451 UJ	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210921	9/21/2021	2.25 U	2.25 U	2.25 U	--	--	2.25 UJ	2.25 UJ	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220615	6/15/2022	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915	9/15/2022	2.05 U	2.05 U	2.05 U	--	--	2.05 U	2.05 U	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915-D	9/15/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20230606	6/6/2023	2.45 U	2.45 U	2.45 U	--	--	2.45 UJ	2.45 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200917	9/17/2020	0.44 UJ	0.88 UJ	0.88 UJ	--	--	1.75 UJ	0.44 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210630	6/30/2021	0.437 U	0.874 U	0.874 U	--	--	1.75 U	0.437 U	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210922	9/22/2021	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220621	6/21/2022	2.09 U	2.09 U	2.09 U	--	--	2.09 UJ	2.09 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220916	9/16/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230607	6/7/2023	2.26 U	2.26 U	2.26 U	--	--	2.26 UJ	2.26 UJ	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230922	9/22/2023	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	7.1
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200917	9/17/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 UJ	0.44 UJ	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630	6/30/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 U	0.442 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630-D	6/30/2021	0.442 U	0.883 U	0.883 U	--	--	1.77 U	0.442 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210922	9/22/2021	2.26 U	2.26 U	2.26 U	--	--	2.26 UJ	2.26 UJ	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220621	6/21/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220916	9/16/2022	2.1 U	2.1 U	2.1 U	--	--	2.1 U	2.1 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230607	6/7/2023	2.37 U	2.37 U	2.37 U	--	--	2.37 U	2.37 U	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230922	9/22/2023	2.17 U	2.17 U	2.17 U	--	--	2.17 U	2.17 U	--	--	--	5.82
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20190729	7/29/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200917	9/17/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 U	0.45 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210630	6/30/2021	0.437 U	0.874 U	0.874 U	--	--	1.75 U	0.437 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922	9/22/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922-D	9/22/2021	2.13 U	2.13 U	2.13 U	--	--	2.13 UJ	2.13 UJ	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220621	6/21/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916	9/16/2022	2.07 U	2.07 U	2.07 U	--	--	2.07 U	2.07 U	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916-D	9/16/2022	2.08 U	2.08 U	2.08 U	--	--	2.08 U	2.08 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230607	6/7/2023	2.18 U	2.18 U	2.18 U	--	--	2.18 U	2.18 U	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922	9/22/2023	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	7.07
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922-D	9/22/2023	2.16 U	2.16 U	2.16 U	--	--	2.16 U	2.16 U	--	--	--	7.12
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200130	1/30/2020	0.4 U	0.81 U	0.81 U	--	--	1.61 UJ	0.4 UJ	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506-D	5/6/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UJ	0.41 UJ	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200917	9/17/2020	0.5 U	1 U	1 U	--	--	2 UX	0.5 UX	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-NGSHAMINY-REF4-20210111	1/11/2021	--	--	--	--	--	0.87 U	0.87 U	0.87 U	3.5 U	1.7 U	4.2 J
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-Neshaminy-REF4-20210315	3/15/2021	--	--	--	--	--	0.85 U	0.85 U	0.85 U	3.4 U	1.7 U	4 J
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210630	6/30/2021	0.44 U	0.88 U	0.88 U	--	--	1.76 UJ	0.44 UJ	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210922	9/22/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20211214	12/14/2021	--	--	--	--	--	0.81 U	0.81 U	0.81 U	3.3 U	1.6 U	6.2
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20220321	3/21/2022	--	--	--	--	--	0.9 R	0.9 UJ	0.9 U	3.6 U	1.8 U	5.5
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20220916	9/16/2022	2.19 U	2.19 U	2.19 U	--	--	2.19 U	2.19 U	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20230922	9/22/2023	2.33 U	2.33 U	2.33 U	--	--	2.33 U	2.33 U	--	--	--	8.45
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240104	1/4/2024	1.99 U	1.27 U	1.28 U	2.65 U	3.01 U	0.783 U	0.662 U	2.41 U	2.7 U	1.67 U	4.23 J
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240318	3/18/2024	2.22 U	1.42 U	1.43 U	2.96 U	3.37 U	0.876 U	0.741 U	2.69 U	3.02 U	1.87 U	4.71 J
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200504	5/4/2020	0.41 U	0.82 U	0.82 U	--	--	1.64 UX	0.41 UX	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200915	9/15/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 U	0.43 U	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210629	6/29/2021	0.427 U	0.853 U	0.853 U	--	--	1.71 U	0.427 U	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210921	9/21/2021	2.19 U	2.19 U	2.19 U	--	--	2.19 UJ	2.19 UJ	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220615	6/15/2022	2.15 U	2.15 U	2.15 U	--	--	2.15 U	2.15 U	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220915	9/15/2022	2.05 U	2.05 U	2.05 U	--	--	2.05 U	2.05 U	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230606	6/6/2023	2.35 U	2.35 U	2.35 U	--	--	2.35 UJ	2.35 UJ	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230920	9/20/2023	2.14 U	2.14 U	2.14 U	--	--	2.14 UJ	2.14 UJ	--	--	--	6.75
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220615	6/15/2022	2.26 U	2.26 U	2.26 U	--	--	2.26 U	2.26 U	--	--	--	--
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220915	9/15/2022	2.44 U	2.44 U	2.44 U	--	--	2.44 U	2.44 U	--	--	--	--
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20230606	6/6/2023	2.31 U	2.31 U	2.31 U	--	--	2.31 U	2.31 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20190725	7/25/2019	0.33 U	0.33 U	0.33 U	--	--	0.82 U	0.41 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200504	5/4/2020	0.45 U	0.91 U	0.91 U	--	--	1.82 UX	0.45 UX	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200915	9/15/2020	0.44 U	0.88 U	0.88 U	--	--	1.75 U	0.44 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210628	6/28/2021	0.428 U	0.856 U	0.856 U	--	--	1.71 U	0.428 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210920	9/20/2021	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220614	6/14/2022	2.11 U	2.11 U	2.11 U	--	--	2.11 U	2.11 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220914	9/14/2022	2.06 U	2.06 U	2.06 U	--	--	2.06 U	2.06 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605	6/5/2023	2.24 U	2.24 U	2.24 U	--	--	2.24 U	2.24 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605-D	6/5/2023	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230919	9/19/2023	2.22 U	2.22 U	2.22 U	--	--	2.22 UJ	2.22 UJ	--	--	--	5.6
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20190725	7/25/2019	0.34 U	0.34 U	0.34 U	--	--	0.85 U	0.42 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200504	5/4/2020	0.43 U	0.86 U	0.86 U	--	--	1.72 UX	0.43 UX	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200915	9/15/2020	0.46 U	0.93 U	0.93 U	--	--	1.85 U	0.46 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210628	6/28/2021	0.437 U	0.874 U	0.874 U	--	--	1.75 U	0.437 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920	9/20/2021	2.42 U	2.42 U	2.42 U	--	--	2.42 U	2.42 U	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA)	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-ETFOSE)	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (N-MEFOSE)	PERFLUOROTETRADECANOIC ACID (PFTEA)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUOROOCTANE SULFONIC ACID (6:2FTS)	1*H*, 1*H*, 2*H*, 2*H*-PERFLUORODECANE SULFONIC ACID (8:2FTS)	PERFLUOROBUTANOIC ACID (PFBA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	34000
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64600
	Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8370000
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920-D	9/20/2021	2.51 U	2.51 U	2.51 U	--	--	2.51 U	2.51 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PREF2-20220614	6/14/2022	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20220914	9/14/2022	2.13 U	2.13 U	2.13 U	--	--	2.13 U	2.13 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230605	6/5/2023	2.22 U	2.22 U	2.22 U	--	--	2.22 U	2.22 U	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230919	9/19/2023	2.5 U	2.5 U	2.5 U	--	--	2.5 UJ	2.5 UJ	--	--	--	6.5

Notes:
Result is above PSL.
Result is bolded if above Human Health PSL [(1)].
Result is italicized if above Ecological Invertebrate PSL [(2,3,4)].
Result is underlined if above Ecological Wildlife PSL [(2)].
See end notes

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421	4/21/2022	--	--	--	--	--	--	--	--	--	--	0.87 U
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421-D	4/21/2022	--	--	--	--	--	--	--	--	--	--	0.86 U
NPA-SW/SD06	Neshaminy	NPA-SW06-20220419	4/19/2022	--	--	--	--	--	--	--	--	--	--	0.87 U
NPA-SW/SD08	Neshaminy	NPA-SW08-20220419	4/19/2022	--	--	--	--	--	--	--	--	--	--	0.92 U
NPA-SW/SD09	Neshaminy	NPA-SW09-20220421	4/21/2022	--	--	--	--	--	--	--	--	--	--	0.86 U
NPA-SW/SD11	Neshaminy	NPA-SW11-20220419	4/19/2022	--	--	--	--	--	--	--	--	--	--	0.82 U
NPA-SW/SD21	Neshaminy	NPA-SW21-20220420	4/20/2022	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-01	Neshaminy	SW-01-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-01	Neshaminy	SW-01-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-01	Neshaminy	SW-01-080717-D	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.89 UJ
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.833 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.951 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.32 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.28 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.32 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240103	1/3/2024	0.237 J	13.3	0.508 U	6.46	67.6	81.2	3.41 U	9.1 U	10.7 U	0.204 U	1.17 U
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240320	3/20/2024	0.34 U	9.46	0.523 U	8.74 I	37.6	46.8	3.51 U	9.37 U	11 U	0.21 U	1.2 U
WGNA-SW/SD-02	Neshaminy	SW-02-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-02	Neshaminy	SW-02-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725-D	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-03	Neshaminy	SW-03-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	SW-03-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-03	Neshaminy	SW-03-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.806 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.862 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.893 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.19 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.49 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240103	1/3/2024	0.299 U	5.48	0.46 U	0.348 U	14.9	25.8	3.09 U	8.24 U	9.65 U	0.184 U	1.06 U
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240320	3/20/2024	0.293 U	7.18	0.451 U	0.341 U	15	26.8	3.03 U	8.08 U	9.46 U	0.181 U	1.03 U
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.07 U
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-04	Neshaminy	SW-04-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-04	Neshaminy	SW-04-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240103	1/3/2024	0.291 U	2.39	0.448 U	0.338 U	7.97	12.8	3 U	8.02 U	9.39 U	0.179 U	1.03 U
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320	3/20/2024	0.291 U	2.57	0.447 U	0.338 U	9.25	14.5	3 U	8.01 U	9.37 U	0.179 U	1.03 U
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320-D	3/20/2024	0.307 U	2.61	0.472 U	0.356 U	10.4	14.9	3.16 U	8.45 U	9.89 U	0.189 U	1.08 U
WGNA-SW/SD-05	Neshaminy	SW-05-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	SW-05-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022-D	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129-D	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.806 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.943 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.2 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.08 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322-D	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.11 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920-D	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240103	1/3/2024	0.315 U	2	0.483 U	0.365 U	7.84	12.7	3.24 U	8.66 U	10.1 U	0.194 U	1.11 U
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240320	3/20/2024	0.31 U	2.23	0.476 U	0.359 U	8.27	12.7	3.19 U	8.53 U	9.98 U	0.191 U	1.09 U
WGNA-SW/SD-06	Neshaminy	SW-06-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-06	Neshaminy	SW-06-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-07	Neshaminy	SW-07-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-08	Neshaminy	SW-08-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.21 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.21 U
WGNA-SW/SD-09	Neshaminy	SW-09-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-09	Neshaminy	SW-09-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	SW-10-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025-D	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504-D	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915-D	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.83 UJ
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.806 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.903 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215-D	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.21 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.35 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.23 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240103	1/3/2024	0.295 U	0.372 U	0.454 U	0.342 U	0.373 J	3.88	3.04 U	8.12 U	9.51 U	0.182 U	1.04 U
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240320	3/20/2024	0.299 U	0.377 U	0.46 U	0.348 U	0.497 J	3.91	3.09 U	8.24 U	9.65 U	0.184 U	1.06 U
WGNA-SW/SD-11	Neshaminy	SW-11-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-12	Neshaminy	SW-12-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-13	Neshaminy	SW-13-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-13	Neshaminy	SW-13-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	SW-14-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.91 UJ
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 UJ
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.85 UJ

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210112	1/12/2021	0.89 U	1.1 J	0.89 U	0.89 UJ	5	8	--	--	--	--	0.89 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210316	3/16/2021	0.87 U	1.1 J	0.87 U	0.87 U	5	8.1	--	--	--	--	0.87 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20211215	12/15/2021	0.89 U	1.5 J	0.89 U	0.89 UJ	8.4	16	--	--	--	--	0.89 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220322	3/22/2022	0.85 U	1.2 J	0.85 U	0.85 U	4.9	10	--	--	--	--	0.85 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.34 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20221206	12/6/2022	0.84 UJ	2.2 J	0.84 UJ	1.2 UJ	7.2 J	12 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230321	3/21/2023	0.81 U	1.2 J	0.81 U	1.1 U	6.8	11	--	--	--	--	0.81 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.33 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240103	1/3/2024	0.29 U	1.04 J	0.446 U	0.337 U	4.37	8.9	2.99 U	7.99 U	9.35 U	0.179 U	1.02 U
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240320	3/20/2024	0.307 U	1.03 J	0.472 U	0.356 U	5.21	9.46	3.16 U	8.45 U	9.89 U	0.189 U	1.08 U
WGNA-SW/SD-15	Neshaminy	SW-15-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-15	Neshaminy	SW-15-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-16	Neshaminy	SW-16-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	SW-16-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112	1/12/2021	0.89 U	1.1 J	0.89 U	0.89 U	5.3	9.2	--	--	--	--	0.89 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112-D	1/12/2021	0.84 U	1.1 J	0.84 U	0.84 R	5.6	11	--	--	--	--	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210316	3/16/2021	0.88 U	0.97 J	0.88 U	0.88 UJ	5.1	8.9	--	--	--	--	0.88 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629-D	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20211215	12/15/2021	0.84 U	1.4 J	0.84 U	0.84 U	7.9	22	--	--	--	--	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220322	3/22/2022	0.84 U	0.96 J	0.84 U	0.84 U	5	11	--	--	--	--	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.23 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.12 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206	12/6/2022	0.85 UJ	1.1 J	0.85 UJ	1.2 UJ	6.5 J	13 J	--	--	--	--	0.85 UJ
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206-D	12/6/2022	0.83 UJ	1.1 J	0.83 UJ	1.2 UJ	6.3 J	13 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230321	3/21/2023	0.84 U	1 J	0.84 U	1.2 U	5.5	11	--	--	--	--	0.84 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606-D	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.28 U
WGNA-SW/SD-17	Neshaminy	SW-17-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	SW-17-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210112	1/12/2021	0.84 U	1.7	0.84 U	0.84 UJ	7.1	11	--	--	--	--	0.84 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210316	3/16/2021	0.86 U	1.2 J	0.86 U	0.86 UJ	6.6	9.5	--	--	--	--	0.86 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629	6/29/2021	0.85 U	1.5 J	0.85 U	0.85 UJ	7.4	26	--	--	--	--	0.85 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629-D	6/29/2021	0.84 U	1.5 J	0.84 U	0.84 U	7.2	26	--	--	--	--	0.84 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210921	9/21/2021	0.84 U	2	0.84 U	0.75 J	8.8	26	--	--	--	--	0.84 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20211215	12/15/2021	0.85 U	1.1 J	0.85 U	0.85 U	6.4	18	--	--	--	--	0.85 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220322	3/22/2022	0.83 U	1.3 J	0.83 U	0.83 U	6.3	13	--	--	--	--	0.83 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220615	6/15/2022	0.92 UJ	1.4 J	0.92 UJ	0.92 R	7.9	20	--	--	--	--	0.92 UJ
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220915	9/15/2022	0.86 UJ	1.2 J	0.86 UJ	0.86 UJ	8.6 J	28 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20221206	12/6/2022	0.86 UJ	1.1 J	0.86 UJ	1.2 UJ	7.5 J	13 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230321	3/21/2023	0.83 U	1.3 J	0.83 U	1.2 U	6.8	12	--	--	--	--	0.83 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230606	6/6/2023	1.2 U	2.2	1.2 U	1.2 U	9.5	29	--	--	--	--	0.81 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.3 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240103	1/3/2024	0.285 U	1.49	0.438 U	0.331 U	6.24	13.4	2.94 U	7.85 U	9.19 U	0.176 U	1.01 U
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240320	3/20/2024	0.331 U	1.18 J	0.508 U	0.384 U	5.79	11.7	3.41 U	9.1 U	10.7 U	0.204 U	1.17 U
WGNA-SW/SD-18	Neshaminy	SW-18-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-18	Neshaminy	SW-18-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-19	Neshaminy	SW-19-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	SW-19-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210112	1/12/2021	0.87 U	1.8	0.87 U	0.87 R	8.8	24	--	--	--	--	0.87 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210316	3/16/2021	0.88 U	1.7 J	0.88 U	0.47 J	7.9	20	--	--	--	--	0.88 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210629	6/29/2021	0.84 U	2.4	0.84 U	0.6 J	10	41	--	--	--	--	0.84 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921	9/21/2021	0.83 U	2.9	0.83 U	0.91 J	11	31	--	--	--	--	0.83 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921-D	9/21/2021	0.84 U	2.8	0.56 J	0.99 J	11	31	--	--	--	--	0.84 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20211215	12/15/2021	0.83 U	1.3 J	0.83 U	0.83 U	8.1	20	--	--	--	--	0.83 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220322	3/22/2022	0.88 U	1.5 J	0.88 U	0.88 U	6.9	16	--	--	--	--	0.88 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220615	6/15/2022	0.82 UJ	1.7	0.82 UJ	0.41 R	9.2	29	--	--	--	--	0.82 R
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220915	9/15/2022	0.86 UJ	1.5 J	0.86 UJ	0.86 UJ	8.2 J	41 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20221206	12/6/2022	0.83 UJ	1.8 J	0.83 UJ	1.2 UJ	8.9 J	17 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230321	3/21/2023	0.85 U	1.7	0.85 U	1.2 U	8.9	16	--	--	--	--	0.85 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606	6/6/2023	1.2 U	2.8	1.2 U	1.2 U	12	39	--	--	--	--	0.81 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606-D	6/6/2023	1.2 U	2.7	1.2 U	1.2 U	11	35	--	--	--	--	0.82 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921-D	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240103	1/3/2024	0.287 U	1.27 J	0.441 U	0.333 U	5.79	11.7	2.96 U	7.89 U	9.24 U	0.177 U	1.01 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240319	3/19/2024	0.306 U	1.82	0.471 U	0.355 U	7.15	16.5	3.16 U	8.43 U	9.87 U	0.189 U	1.08 U
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240320	3/20/2024	0.325 U	1.8	0.499 U	0.377 U	6.73	16.2	3.35 U	8.94 U	10.5 U	0.2 U	1.14 U
WGNA-SW/SD-20	Neshaminy	SW-20-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	SW-20-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210111	1/11/2021	0.86 U	1.9	0.86 U	0.86 R	8.6	23	--	--	--	--	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210315	3/15/2021	0.87 U	1.7	0.87 U	0.87 UJ	7.9	19	--	--	--	--	0.87 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210316	3/16/2021	0.86 U	1.7	0.86 U	0.86 UJ	7.9	20	--	--	--	--	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210629	6/29/2021	0.85 U	2.5	0.85 U	0.42 J	10	42	--	--	--	--	0.85 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210921	9/21/2021	0.82 U	2.7	0.82 U	0.81 J	11	30	--	--	--	--	0.82 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211214	12/14/2021	0.83 U	1.4 J	0.83 U	0.83 U	8	19	--	--	--	--	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211215	12/15/2021	0.86 U	1.4 J	0.86 U	0.86 UJ	7.6	21	--	--	--	--	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220321	3/21/2022	0.86 U	1.6 J	0.86 U	0.86 U	6.9	16	--	--	--	--	0.86 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220322	3/22/2022	0.83 U	1.5 J	0.83 U	0.83 U	7.6	17	--	--	--	--	0.83 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220615	6/15/2022	0.91 U	1.9	0.91 U	0.91 R	9	27	--	--	--	--	0.91 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220915	9/15/2022	0.83 UJ	1.6 J	0.83 UJ	0.83 UJ	9 J	43 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221205	12/5/2022	0.88 UJ	1.8 J	0.88 UJ	1.2 UJ	8.5 J	18 J	--	--	--	--	0.88 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221206	12/6/2022	0.86 UJ	2.5 J	0.86 UJ	1.2 UJ	9.7 J	18 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230320	3/20/2023	0.82 U	1.7	0.82 U	1.1 U	9.3	17	--	--	--	--	0.82 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230321	3/21/2023	0.85 U	2	0.55 J	1.2 U	8.8	18	--	--	--	--	0.85 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230606	6/6/2023	1.3 U	2.9	1.3 U	1.3 U	13	39	--	--	--	--	0.84 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240103	1/3/2024	0.291 U	1.69	0.447 U	0.338 U	6.48	14.7	3 U	8.01 U	9.37 U	0.179 U	1.03 U
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240319	3/19/2024	0.306 U	1.72	0.47 U	0.355 U	6.97	17.7	3.15 U	8.42 U	9.85 U	0.188 U	1.08 U
WGNA-SW/SD-21A	Neshaminy	SW-21A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-21A	Neshaminy	SW-21A-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-21B	Neshaminy	SW-21B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-22	Neshaminy	SW-22-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-22A	Neshaminy	SW-22A-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-22B	Neshaminy	SW-22B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716-D	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717-D	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-23B	Neshaminy	SW-23B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-24A	Neshaminy	SW-24A-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-24B	Neshaminy	SW-24B-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-042716	4/27/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-25	Neshaminy	SW-25-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-26	Neshaminy	SW-26-022715	2/27/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	SW-26-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130-D	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210112	1/12/2021	0.85 U	5.9	0.85 U	2.1	17	310	--	--	--	--	0.85 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316	3/16/2021	0.87 U	4.4	0.87 U	1.5 J	13	240	--	--	--	--	0.87 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316-D	3/16/2021	0.93 U	4.4	0.93 U	1.6 J	14	230	--	--	--	--	0.93 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210629	6/29/2021	0.83 U	14	0.83 U	3.6	35	250	--	--	--	--	0.83 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210921	9/21/2021	0.87 U	7.7	0.87 U	3.5	18	49	--	--	--	--	0.87 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20211215	12/15/2021	0.86 U	8.1	0.86 U	2.2	21	38	--	--	--	--	0.86 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220322	3/22/2022	0.85 U	8.1	0.85 U	2.2	21	120	--	--	--	--	0.85 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220615	6/15/2022	0.84 U	27	0.52 J	5.5 J	79	170	--	--	--	--	0.84 UJ
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220915	9/15/2022	0.86 UJ	2.6 J	0.86 UJ	0.63 J	6.3 J	140 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20221206	12/6/2022	0.9 UJ	6.3 J	0.9 UJ	1 J	15 J	28 J	--	--	--	--	0.9 UJ
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230321	3/21/2023	0.82 U	14	0.82 U	2.3	40	100	--	--	--	--	0.82 U
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230606	6/6/2023	1.4 U	7.1	1.4 U	1 J	21	170	--	--	--	--	0.9 U
WGNA-SW/SD-27	Neshaminy	SW-27-022315	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-022315-D	2/23/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.94 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505-D	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916-D	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210112	1/12/2021	0.86 U	8.6	0.86 U	1.7	31	210	--	--	--	--	0.86 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210316	3/16/2021	0.93 U	7.8	0.93 U	1.3 J	30	200	--	--	--	--	0.93 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210629	6/29/2021	0.87 U	11	0.87 U	3.4 J	34	220	--	--	--	--	0.87 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210921	9/21/2021	0.87 U	9.9	0.87 U	2.1	30	88	--	--	--	--	0.87 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215	12/15/2021	0.85 U	6.5	0.85 U	0.68 J	30	61	--	--	--	--	0.85 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215-D	12/15/2021	0.84 U	8.8	0.84 U	1 J	37	79	--	--	--	--	0.84 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322	3/22/2022	0.86 U	8.8	0.86 U	0.99 J	29	110	--	--	--	--	0.86 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322-D	3/22/2022	0.84 U	8.6	0.84 U	1 J	32	120	--	--	--	--	0.84 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615	6/15/2022	0.85 U	5.4	0.85 U	1.2 R	19	97	--	--	--	--	0.85 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615-D	6/15/2022	0.93 U	5.3	0.93 U	1.2 J	19	100	--	--	--	--	0.93 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915	9/15/2022	0.83 R	2.3 J	0.83 R	0.91 J	12 =	160 =	--	--	--	--	0.83 R
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915-D	9/15/2022	0.82 UJ	3.5 J	0.44 J	0.77 J	12 J	140 J	--	--	--	--	0.82 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20221206	12/6/2022	0.84 UJ	9.6 J	0.84 UJ	1.5 J	29 J	61 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321	3/21/2023	0.85 U	8.2	0.85 U	1.1 J	28	88	--	--	--	--	0.85 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321-D	3/21/2023	0.82 U	8.4	0.82 U	1.2 J	30	87	--	--	--	--	0.82 U
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230606	6/6/2023	1.3 U	17	1.3 U	1.8	39	160	--	--	--	--	0.86 U
WGNA-SW/SD-28	Neshaminy	SW-28-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.94 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726-D	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210112	1/12/2021	0.88 U	9.9	0.49 J	2.5	32	210	--	--	--	--	0.88 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210316	3/16/2021	0.91 U	7.5	0.91 U	1.4 J	29	190	--	--	--	--	0.91 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210629	6/29/2021	0.86 U	1.9	0.86 U	0.86 UJ	8.3	28	--	--	--	--	0.86 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210921	9/21/2021	0.89 U	11	0.89 U	2.7	32	88	--	--	--	--	0.89 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20211215	12/15/2021	0.87 U	6.8	0.87 U	0.79 J	30	66	--	--	--	--	0.87 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220322	3/22/2022	0.82 U	10	0.82 U	1.2 J	35	120	--	--	--	--	0.82 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220615	6/15/2022	0.82 U	5.8	0.82 U	1.4 UJ	21	100	--	--	--	--	0.82 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220915	9/15/2022	0.84 UJ	3.7 J	0.84 UJ	0.78 J	12 J	140 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20221206	12/6/2022	0.83 UJ	10 J	0.83 UJ	1.5 J	32 J	62 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230321	3/21/2023	0.82 U	9.6	0.82 U	1.3 J	33	92	--	--	--	--	0.82 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230606	6/6/2023	1.2 U	13	1.2 U	1.3 J	41	170	--	--	--	--	0.82 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.27 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240103	1/3/2024	0.286 U	7.02	0.44 U	0.332 U	25	66.6	2.95 U	7.88 U	9.22 U	0.176 U	1.01 U
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240320	3/20/2024	0.315 U	6.65	0.484 U	0.366 U	22.7	71	3.25 U	8.68 U	10.2 U	0.194 U	1.11 U
WGNA-SW/SD-29	Neshaminy	SW-29-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-29	Neshaminy	SW-29-042816-D	4/28/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	SW-30-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210111	1/11/2021	0.88 U	0.88 U	0.88 U	0.88 R	0.88 U	8.1	--	--	--	--	0.88 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112	1/12/2021	0.87 U	0.87 U	0.87 U	0.87 R	0.87 U	9	--	--	--	--	0.87 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112-D	1/12/2021	0.86 U	0.86 U	0.86 U	0.86 UJ	0.86 U	9.2	--	--	--	--	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210315	3/15/2021	0.86 U	0.86 U	0.86 U	0.86 UJ	0.86 U	8.3	--	--	--	--	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210629	6/29/2021	0.9 U	0.9 U	0.9 U	0.9 UJ	0.45 J	24	--	--	--	--	0.9 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210921	9/21/2021	0.83 U	0.83 U	0.83 U	0.61 J	0.83 U	26	--	--	--	--	0.83 U

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20211214	12/14/2021	0.85 U	0.85 U	0.85 U	0.85 UJ	0.85 U	19	--	--	--	--	0.85 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321	3/21/2022	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	9.7	--	--	--	--	0.87 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321-D	3/21/2022	0.86 U	0.86 U	0.86 U	0.86 U	0.86 U	9.3	--	--	--	--	0.86 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220615	6/15/2022	0.83 UJ	0.83 U	0.83 UJ	0.83 R	0.83 U	24	--	--	--	--	0.83 R
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220915	9/15/2022	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	18 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20221205	12/5/2022	0.86 UJ	0.86 UJ	0.86 UJ	1.2 UJ	0.86 UJ	7.1 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230320	3/20/2023	0.82 U	0.82 U	0.82 U	1.1 U	0.82 U	14	--	--	--	--	0.82 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230606	6/6/2023	1.2 U	1.2 U	1.2 U	1.2 U	0.41 J	41	--	--	--	--	0.81 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240103	1/3/2024	0.292 U	0.368 U	0.449 U	0.339 U	0.233 U	9.25	3.01 U	8.05 U	9.42 U	0.18 U	1.03 U
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240319	3/19/2024	0.317 U	0.399 U	0.487 U	0.368 U	0.35 J	14.7	3.27 U	8.73 U	10.2 U	0.195 U	1.12 U
WGNA-SW/SD-31	Neshaminy	SW-31-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-31	Neshaminy	SW-31-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210111	1/11/2021	0.85 U	1.8	0.44 J	0.85 R	8.9	25	--	--	--	--	0.43 J
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210315	3/15/2021	0.9 U	1.7 J	0.9 U	0.9 U	8.1	21	--	--	--	--	0.9 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210628	6/28/2021	0.89 U	1.5 J	0.89 U	0.45 J	5.9	31	--	--	--	--	0.89 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210629	6/29/2021	0.87 U	1.6 J	0.87 U	0.87 UJ	6.8	35	--	--	--	--	0.87 U
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210920	9/20/2021	0.83 U	1.4 J	0.83 U	0.67 J	5.4	29	--	--	--	--	0.83 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220614	6/14/2022	0.81 U	1.1 J	0.81 U	0.81 UJ	4.7	23	--	--	--	--	0.81 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220615	6/15/2022	0.82 U	1.2 J	0.82 U	0.82 UJ	5.6	26	--	--	--	--	0.82 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220915	9/15/2022	0.93 UJ	0.47 J	0.93 UJ	0.93 UJ	1.9 J	21 J	--	--	--	--	0.93 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220916	9/16/2022	0.86 UJ	0.86 UJ	0.86 UJ	0.86 UJ	1.3 J	21 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20221205	12/5/2022	0.83 UJ	1 J	0.83 UJ	1.2 UJ	5.1 J	13 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230320	3/20/2023	0.81 U	1.4 J	0.81 U	1.1 U	7.5	17	--	--	--	--	0.81 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230605	6/5/2023	1.2 U	1.8	1.2 U	1.2 U	6.8	40	--	--	--	--	0.8 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230606	6/6/2023	1.3 U	1.6 J	1.3 U	1.3 U	6.5	42	--	--	--	--	0.84 U
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-32	Neshaminy	SW-32-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210111	1/11/2021	0.86 U	1.2 J	0.86 U	0.86 UJ	5.5	17	--	--	--	--	0.86 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210628	6/28/2021	0.84 U	2.1	0.84 U	0.84 UJ	7.7	34	--	--	--	--	0.84 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210920	9/20/2021	0.84 U	2.1	0.84 U	0.79 J	9.1	31	--	--	--	--	0.84 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210921	9/21/2021	0.83 U	2.1	0.83 U	0.78 J	7.6	31	--	--	--	--	0.83 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20211214	12/14/2021	0.87 U	0.89 J	0.87 U	0.87 UJ	4.5	20	--	--	--	--	0.87 U
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20220321	3/21/2022	0.85 U	0.98 J	0.85 U	0.85 U	3.5	13	--	--	--	--	0.85 U
WGNA-SW/SD-33	Neshaminy	SW-33-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-022415-D	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	SW-33-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.86 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210111	1/11/2021	0.86 U	1.3 J	0.86 U	0.86 R	5.8	19	--	--	--	--	0.86 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210628	6/28/2021	0.83 U	2.3	0.83 U	0.83 UJ	7.9	34	--	--	--	--	0.61 J
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210920	9/20/2021	0.84 U	2.2	0.84 U	0.65 J	8.3	29	--	--	--	--	0.84 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214	12/14/2021	0.83 U	1.1 J	0.83 U	0.83 U	5.9	25	--	--	--	--	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214-D	12/14/2021	0.84 U	0.91 J	0.84 U	0.84 UJ	4.8	20	--	--	--	--	0.84 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220321	3/21/2022	0.86 U	1 J	0.86 U	0.86 U	3.8	13	--	--	--	--	0.86 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220614	6/14/2022	0.83 U	1.3 J	0.83 U	0.83 R	6	23	--	--	--	--	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916	9/16/2022	0.83 UJ	0.99 J	0.83 UJ	0.83 UJ	6.1 J	30 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916-D	9/16/2022	0.83 UJ	1.4 J	0.83 UJ	0.83 UJ	6.1 J	36 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20221205	12/5/2022	0.84 UJ	0.96 J	0.84 UJ	1.2 UJ	4.7 J	12 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320	3/20/2023	0.85 R	0.91 J	0.85 UJ	1.2 UJ	5.3	14	--	--	--	--	0.85 UJ
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320-D	3/20/2023	0.87 U	1.1 J	0.87 U	1.2 U	5.5	17	--	--	--	--	0.87 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230605	6/5/2023	1.2 U	2.4	1.2 U	1.2 U	8.5	38	--	--	--	--	0.83 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.28 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240103	1/3/2024	0.293 U	0.881 J	0.45 U	0.34 U	4.11	12.4	3.02 U	8.07 U	9.44 U	0.18 U	1.03 U
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240319	3/19/2024	0.31 U	1.44 J	0.477 U	0.36 U	5.25	16.9	3.2 U	8.54 U	10 U	0.191 U	1.09 U
WGNA-SW/SD-34	Neshaminy	SW-34-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-34	Neshaminy	SW-34-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-34	Neshaminy	SW-34-081017-D	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.94 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 UJ
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210111	1/11/2021	0.86 U	1.6 J	0.86 U	0.86 R	7.2	19	--	--	--	--	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210315	3/15/2021	0.9 U	1.5 J	0.9 U	0.9 U	6.4	16	--	--	--	--	0.9 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210628	6/28/2021	0.87 U	2.5	0.87 U	0.87 UJ	9.3	34	--	--	--	--	0.87 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210920	9/20/2021	0.86 U	2.8	0.86 U	1.1 J	10	32	--	--	--	--	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20211214	12/14/2021	0.85 U	1.2 J	0.85 U	0.85 U	6.2	20	--	--	--	--	0.85 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220321	3/21/2022	0.86 U	1.3 J	0.86 U	0.86 U	4.6	13	--	--	--	--	0.86 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220614	6/14/2022	0.81 U	1.8	0.81 U	0.54 J	7.8	24	--	--	--	--	0.81 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220916	9/16/2022	0.86 UJ	1.5 J	0.86 UJ	0.86 UJ	6.5 J	30 J	--	--	--	--	0.86 UJ
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20221205	12/5/2022	0.85 UJ	1.2 J	0.85 UJ	1.2 UJ	4.9 J	12 J	--	--	--	--	0.85 UJ
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230320	3/20/2023	0.84 U	1.5 J	0.84 U	1.2 U	6.5	17	--	--	--	--	0.84 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605	6/5/2023	1.2 U	2.5	1.2 U	1.2 U	9.7	41	--	--	--	--	0.82 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605-D	6/5/2023	1.2 U	2.9	1.2 U	1.2 U	9.5	37	--	--	--	--	0.81 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240103	1/3/2024	0.305 U	1.54	0.468 U	0.353 U	4.88	13.9	3.14 U	8.38 U	9.81 U	0.188 U	1.07 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240104	1/4/2024	0.298 U	1.47	0.458 U	0.346 U	5.31	15.3	3.07 U	8.2 U	9.6 U	0.183 U	1.05 U
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240319	3/19/2024	0.32 U	1.92	0.492 U	0.372 U	6.63	18.2	3.3 U	8.81 U	10.3 U	0.197 U	1.13 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-35	Neshaminy	SW-35-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	SW-36-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505-D	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506-D	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916-D	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210628	6/28/2021	0.85 U	2.5	0.85 U	0.85 UJ	8.3	32	--	--	--	--	0.85 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210920	9/20/2021	0.88 U	2.4	0.88 U	1.2 J	9.3	29	--	--	--	--	0.88 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220614	6/14/2022	0.84 U	1.4 J	0.84 U	0.48 J	6.3	20	--	--	--	--	0.84 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230605	6/5/2023	1.2 U	2.2	1.2 U	1.2 U	8.8	38	--	--	--	--	0.8 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.33 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921-D	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.32 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20240319	3/19/2024	0.305 U	1.44 J	0.468 U	0.353 U	4.57	14.6	3.14 U	8.38 U	9.81 U	0.188 U	1.07 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.39 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.27 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240104	1/4/2024	0.299 U	0.952 J	0.459 U	0.347 U	3.61	11.4	3.08 U	8.23 U	9.63 U	0.184 U	1.05 U
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240319	3/19/2024	0.329 U	1.27 J	0.505 U	0.381 U	3.78	14	3.39 U	9.05 U	10.6 U	0.202 U	1.16 U
WGNA-SW/SD-37	Neshaminy	SW-37-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-022715	2/27/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-39	Neshaminy	SW-39-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.09 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20221205	12/5/2022	0.84 UJ	2.3 J	0.84 UJ	1.2 UJ	8.1 J	22 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230320	3/20/2023	0.83 U	1.9	0.83 U	1.2 U	6.9	18	--	--	--	--	0.83 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.21 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.49 U
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103	1/3/2024	0.301 UJ	1.35 J	0.463 UJ	0.349 UJ	6.44 J	14.5 J	3.1 UJ	8.29 UJ	9.7 UJ	0.186 UJ	1.06 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103-D	1/3/2024	0.29 UJ	1.38 J	0.445 UJ	0.336 UJ	6.03 J	14.5 J	2.99 UJ	7.98 UJ	9.34 UJ	0.179 UJ	1.02 UJ
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319	3/19/2024	0.301 U	1.71	0.463 U	0.349 U	5.56	14.1	3.1 U	8.29 U	9.7 U	0.186 U	1.06 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319-D	3/19/2024	0.325 U	1.87	0.5 U	0.378 U	5.62	15.3	3.35 U	8.96 U	10.5 U	0.2 U	1.15 U
WGNA-SW/SD-40	Neshaminy	SW-40-022715	2/27/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-022715-D	2/27/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-40	Neshaminy	SW-40-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	SW-41-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726-D	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025-D	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.94 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.98 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210111	1/11/2021	0.86 J	5.7	1.5 J	1.2 J	20	29	--	--	--	--	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315	3/15/2021	0.87 U	4.9	0.87 U	0.8 J	19	27	--	--	--	--	0.87 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315-D	3/15/2021	0.86 U	4.7	0.86 U	0.84 J	18	28	--	--	--	--	0.86 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628	6/28/2021	0.86 U	11	0.86 U	1.4 J	33	51	--	--	--	--	0.86 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628-D	6/28/2021	0.85 U	10	0.85 U	1.5 J	33	53	--	--	--	--	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210920	9/20/2021	0.85 U	8.4	0.85 U	2 J	27	50	--	--	--	--	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20211214	12/14/2021	0.82 U	6.7	0.82 U	0.66 J	28	38	--	--	--	--	0.82 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220321	3/21/2022	0.85 U	5.7	0.85 U	0.76 J	21	30	--	--	--	--	0.85 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220614	6/14/2022	0.61 J	6.4	1.2 J	1.1 J	24	36	--	--	--	--	0.83 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220916	9/16/2022	0.9 UJ	8.1 J	0.9 UJ	1.5 J	31 J	48 J	--	--	--	--	0.9 UJ
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205	12/5/2022	0.87 J	15 J	0.69 J	4.9 J	25 J	38 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205-D	12/5/2022	0.63 J	7.9 J	0.46 J	3.2 J	26 J	38 J	--	--	--	--	0.85 UJ
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230320	3/20/2023	0.91 U	6.1	0.91 U	1.2 J	23	34	--	--	--	--	0.91 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230605	6/5/2023	1.4 U	12	1.4 U	1.3 J	39	78	--	--	--	--	0.91 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20240319	3/19/2024	0.339 U	4.7	0.521 U	0.393 U	14.7	30.8	3.49 U	9.33 U	10.9 U	0.209 U	1.19 U
WGNA-SW/SD-42	Neshaminy	SW-42-022415	2/24/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-042616	4/26/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	SW-42-081017	8/10/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210111	1/11/2021	0.84 U	6	0.84 U	0.93 J	21	32	--	--	--	--	0.84 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210315	3/15/2021	0.88 U	5.7	0.88 U	0.86 J	22	29	--	--	--	--	0.88 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210628	6/28/2021	0.83 U	12	0.83 U	1.2 J	38	55	--	--	--	--	0.83 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920	9/20/2021	0.82 U	9.2	1.4 J	1.7	30	50	--	--	--	--	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920-D	9/20/2021	0.82 U	9.6	0.82 U	1.6	29	50	--	--	--	--	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20211214	12/14/2021	0.87 U	7.2	0.87 U	0.74 J	31	40	--	--	--	--	0.87 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220321	3/21/2022	0.86 U	6.5	0.86 U	0.67 J	24	30	--	--	--	--	0.86 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220614	6/14/2022	0.97 J	8.4	2 J	1 J	28	37	--	--	--	--	0.84 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220916	9/16/2022	0.85 UJ	9.4 J	0.85 UJ	1 J	38 J	48 J	--	--	--	--	0.85 UJ

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20221205	12/5/2022	0.83 UJ	6.8 J	0.83 UJ	0.83 J	28 J	40 J	--	--	--	--	0.83 UJ
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230320	3/20/2023	0.87 U	6.3	0.87 U	0.81 J	25	35	--	--	--	--	0.87 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230605	6/5/2023	1.2 U	13	1.2 U	0.89 J	43	73	--	--	--	--	0.82 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230921	9/21/2023	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240103	1/3/2024	0.295 U	4.49	0.454 U	0.342 U	15.9	27.6	3.04 U	8.12 U	9.51 U	0.182 U	1.04 U
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240319	3/19/2024	0.32 U	4.83	0.491 U	0.371 U	17.6	33.4	3.29 U	8.8 U	10.3 U	0.197 U	1.13 U
WGNA-SW/SD-43	Pennypack	SW-43-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-43	Pennypack	SW-43-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-43	Pennypack	SW-43-081017	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-43A	Pennypack	SW-43A-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-43A	Pennypack	SW-43A-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-43A	Pennypack	SW-43A-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-43B	Pennypack	SW-43B-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-44	Pennypack	SW-44-022515	2/25/2015	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-042516-D	4/25/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-44	Pennypack	SW-44-081017	8/11/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-45	Pennypack	SW-45-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	SW-45-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-45	Pennypack	SW-45-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725-D	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.912 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.862 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20211214	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.23 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205-D	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.32 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.39 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240104	1/4/2024	0.297 U	6.41	0.457 U	0.345 U	14.9	49.3	3.06 U	8.18 U	9.58 U	0.183 U	1.05 U
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240318	3/18/2024	0.316 U	7.58	0.485 U	0.366 U	18.3	44.9	3.26 U	8.69 U	10.2 U	0.195 U	1.11 U
WGNA-SW/SD-46	Pennypack	SW-46-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	SW-46-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.94 U

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	1 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111-D	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.98 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.859 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920-D	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20211214	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.23 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.51 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.52 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.34 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.5 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240104	1/4/2024	0.313 U	6.04	0.482 U	0.364 U	17.6	38.4	3.23 U	8.63 U	10.1 U	0.193 U	1.1 U
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240318	3/18/2024	0.348 U	8.57	0.535 U	0.404 U	24.2	40.3	3.59 U	9.59 U	11.2 U	0.215 U	1.23 U
WGNA-SW/SD-47	Pennypack	SW-47-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	SW-47-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.893 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.874 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20211214	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.58 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240104	1/4/2024	0.288 U	0.92 J	0.443 U	0.335 U	2.72	6.76	2.97 U	7.94 U	9.29 U	0.178 U	1.02 U
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240318	3/18/2024	0.313 U	1.39 J	0.482 U	0.364 U	4.38	7.75	3.23 U	8.63 U	10.1 U	0.193 U	1.1 U
WGNA-SW/SD-48	Pennypack	SW-48-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	SW-48-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.96 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.933 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.862 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.871 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.25 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20211214	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.34 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.23 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320-D	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.3 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104	1/4/2024	0.309 U	0.389 U	0.475 U	0.359 U	0.302 J	2.22 J	3.19 U	8.51 U	9.96 U	0.19 U	1.09 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104-D	1/4/2024	0.3 U	0.378 U	0.461 U	0.348 U	0.246 J	2.43 J	3.09 U	8.26 U	9.67 U	0.185 U	1.06 U
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240318	3/18/2024	0.321 U	0.404 U	0.493 U	0.372 U	0.333 J	2.24 J	3.31 U	8.83 U	10.3 U	0.198 U	1.13 U
WGNA-SW/SD-49	Pennypack	SW-49-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.887 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.893 U
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20240318	3/18/2024	0.314 U	36.5	0.483 U	0.364 U	151	68.7	3.24 U	8.64 U	10.1 U	0.193 U	1.11 U
WGNA-SW/SD-51	Neshaminy	SW-51-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-51	Neshaminy	SW-51-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.56 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-52	Neshaminy	SW-52-042916	4/29/2016	--	--	--	--	--	--	--	--	--	--	--
WGNA-SW/SD-52	Neshaminy	SW-52-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.94 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.98 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.34 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.37 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320	3/20/2024	0.33 U	0.961 J	0.507 U	0.383 U	3.76	5.25	3.4 U	9.08 U	10.6 U	0.203 U	1.16 U
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320-D	3/20/2024	0.299 U	0.86 J	0.46 U	0.348 U	3.5	5.81	3.09 U	8.24 U	9.65 U	0.184 U	1.06 U
WGNA-SW/SD-53	Pennypack	SW-53-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	1.06 U
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.943 U
WGNA-SW/SD-54	Pennypack	SW-54-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.79 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.88 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.912 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20240318	3/18/2024	0.302 U	38.7	0.464 U	0.35 U	157	72.7	3.11 U	8.31 U	9.72 U	0.186 U	1.06 U
WGNA-SW/SD-55	Pennypack	SW-55-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 U
WGNA-SW/SD-56	Pennypack	SW-56-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-56	Pennypack	SW-56-081117-D	8/11/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915-D	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210111	1/11/2021	--	--	--	--	--	--	--	--	--	--	0.839 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315-D	3/15/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.868 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.21 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214-D	12/14/2021	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321-D	3/21/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.21 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614-D	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20221205	12/5/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230320	3/20/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.39 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.42 U
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20240104	1/4/2024	0.297 U	0.692 J	0.457 U	0.345 U	2.21	6.04	3.06 U	8.18 U	9.58 U	0.183 U	1.05 U
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318	3/18/2024	0.33 U	0.969 J	0.507 U	0.383 U	3.42	7.5	3.4 U	9.08 U	10.6 U	0.203 U	1.16 U
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318-D	3/18/2024	0.346 U	0.981 J	0.532 U	0.402 U	3.57	7.59	3.57 U	9.53 U	11.2 U	0.213 U	1.22 U
WGNA-SW/SD-57	Neshaminy	SW-57-080717	8/7/2017	--	--	--	--	--	--	--	--	--	--	15 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210111	1/11/2021	0.64 J	2.4	0.64 J	0.96 UJ	13	13	--	--	--	--	0.96 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210315	3/15/2021	0.92 U	1.8	0.92 U	0.92 UJ	9.7	12	--	--	--	--	0.92 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210920	9/20/2021	0.92 U	3.1	0.92 U	0.73 J	17	18 J	--	--	--	--	0.92 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220321	3/21/2022	0.84 U	2	0.84 U	0.84 U	14	16	--	--	--	--	0.84 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614	6/14/2022	0.84 U	1.8	0.84 U	0.84 R	12	13	--	--	--	--	0.84 UJ
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614-D	6/14/2022	0.82 U	1.8	0.82 U	0.82 R	11	14	--	--	--	--	0.82 U
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20221205	12/5/2022	0.84 UJ	3.9 J	0.84 UJ	1.2 UJ	17 J	60 J	--	--	--	--	0.84 UJ
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20230320	3/20/2023	0.85 U	2	0.85 U	1.2 U	18	13	--	--	--	--	0.85 U
WGNA-SW/SD-61	Pennypack	SW-61-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	16 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-62	Pennypack	SW-62-081117	8/11/2017	--	--	--	--	--	--	--	--	--	--	16 U
WGNA-SW/SD-62	Pennypack	SW-62-081117-D	8/11/2017	--	--	--	--	--	--	--	--	--	--	17 UJ
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20191025	10/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.943 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.877 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.27 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615-D	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.12 U
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103	1/3/2024	0.286 UJ	0.751 J	0.439 UJ	0.332 UJ	2.51 J	6.92 J	2.95 UJ	7.87 UJ	9.21 UJ	0.176 UJ	1.01 UJ
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103-D	1/3/2024	0.291 UJ	0.573 J	0.447 UJ	0.338 UJ	2.83 J	6.72 J	3 UJ	8.01 UJ	9.37 UJ	0.179 UJ	1.03 UJ
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240320	3/20/2024	0.31 U	0.77 J	0.477 U	0.36 U	2.74	6.65	3.2 U	8.54 U	10 U	0.191 U	1.09 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20191022	10/22/2019	--	--	--	--	--	--	--	--	--	--	0.83 UJ
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200129	1/29/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.862 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112-D	1/12/2021	--	--	--	--	--	--	--	--	--	--	0.847 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316-D	3/16/2021	--	--	--	--	--	--	--	--	--	--	0.909 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.12 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20211215	12/15/2021	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220322	3/22/2022	--	--	--	--	--	--	--	--	--	--	2.05 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.04 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.3 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206-D	12/6/2022	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.04 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321-D	3/21/2023	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.15 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20240320	3/20/2024	0.32 U	0.272 J	0.491 U	0.371 U	0.736 J	4.14	3.29 U	8.8 U	10.3 U	0.197 U	1.13 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729-D	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917-D	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.868 U
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.4 U
WGNA-SW/SD-66	Pennypack	WGNA-SW-66-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	1.02 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621-D	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.27 U
WGNA-SW/SD-68	Neshaminy	WGNA-SW-68-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.845 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.12 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.42 U
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919-D	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.25 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628-D	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.856 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.2 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914-D	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.12 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.3 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	1 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.893 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.06 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607-D	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130-D	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.83 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505-D	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20190726	7/26/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200505	5/5/2020	--	--	--	--	--	--	--	--	--	--	0.89 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200916	9/16/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.903 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.25 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.05 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915-D	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.45 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.88 UJ
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.874 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.09 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630-D	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.883 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.1 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.37 U
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.17 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20190729	7/29/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.874 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922-D	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220621	6/21/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.07 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916-D	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.08 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230607	6/7/2023	--	--	--	--	--	--	--	--	--	--	2.18 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922-D	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.16 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200130	1/30/2020	--	--	--	--	--	--	--	--	--	--	0.81 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506-D	5/6/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200917	9/17/2020	--	--	--	--	--	--	--	--	--	--	1 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-NGSHAMINY-REF4-20210111	1/11/2021	0.87 U	0.87 U	0.87 U	0.87 R	1.1 J	6.6	--	--	--	--	0.87 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-Neshaminy-REF4-20210315	3/15/2021	0.85 U	0.85 U	0.85 U	0.85 UJ	1.1 J	6.5	--	--	--	--	0.85 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210630	6/30/2021	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210922	9/22/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20211214	12/14/2021	0.81 U	0.81 U	0.81 U	0.81 U	1.5 J	11	--	--	--	--	0.81 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20220321	3/21/2022	0.9 U	0.9 U	0.9 U	0.9 U	0.89 J	7.9	--	--	--	--	0.9 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20220916	9/16/2022	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20230922	9/22/2023	--	--	--	--	--	--	--	--	--	--	2.33 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240104	1/4/2024	0.296 U	0.325 J	0.454 U	0.343 U	0.958 J	5.72	3.05 U	8.14 U	9.53 U	0.182 U	1.04 U
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240318	3/18/2024	0.331 U	0.341 J	0.508 U	0.384 U	1.01 J	6.34	3.41 U	9.1 U	10.7 U	0.204 U	1.17 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210629	6/29/2021	--	--	--	--	--	--	--	--	--	--	0.853 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210921	9/21/2021	--	--	--	--	--	--	--	--	--	--	2.19 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.15 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.05 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.35 U
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230920	9/20/2023	--	--	--	--	--	--	--	--	--	--	2.14 U
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220615	6/15/2022	--	--	--	--	--	--	--	--	--	--	2.26 U
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220915	9/15/2022	--	--	--	--	--	--	--	--	--	--	2.44 U
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20230606	6/6/2023	--	--	--	--	--	--	--	--	--	--	2.31 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.82 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.91 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.88 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.856 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.11 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.06 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.24 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605-D	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20190725	7/25/2019	--	--	--	--	--	--	--	--	--	--	0.85 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200504	5/4/2020	--	--	--	--	--	--	--	--	--	--	0.86 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200915	9/15/2020	--	--	--	--	--	--	--	--	--	--	0.93 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210628	6/28/2021	--	--	--	--	--	--	--	--	--	--	0.874 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.42 U

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	PERFLUORODECANESULFONIC ACID (PFDS)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	PERFLUORONONANESULFONIC ACID (PFNS)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	PERFLUOROPENTANESULFONIC ACID (PFPES)	PERFLUOROPENTANOIC ACID (PFPEA)	3-PERFLUOROPROPYL PROPANOIC ACID (3:3FTCA) [NONIONIC NONACID]	2*H*, 2*H*, 3*H*, 3*H*-PERFLUOROOCTANOIC ACID (5:3FTCA) [NONIONIC NONACID]	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3FTCA) [NONIONIC NONACID]	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID (N-ETFOSA)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NEFOSA)
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	140000	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920-D	9/20/2021	--	--	--	--	--	--	--	--	--	--	2.51 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PREF2-20220614	6/14/2022	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20220914	9/14/2022	--	--	--	--	--	--	--	--	--	--	2.13 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230605	6/5/2023	--	--	--	--	--	--	--	--	--	--	2.22 U
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230919	9/19/2023	--	--	--	--	--	--	--	--	--	--	2.5 U

Notes:
Result is above PSL.
Result is bolded if above Human Health PSL [(1)].
Result is italicized if above Ecological Invertebrate PSL [(2,3,4)].
Result is underlined if above Ecological Wildlife PSL [(2)].
See end notes

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421	4/21/2022	--	1 U	--	--	--	--	--	480
NPA-SW/SD01	Neshaminy	NPA-SW01-20220421-D	4/21/2022	--	1 U	--	--	--	--	--	500
NPA-SW/SD06	Neshaminy	NPA-SW06-20220419	4/19/2022	--	1 U	--	--	--	--	--	93
NPA-SW/SD08	Neshaminy	NPA-SW08-20220419	4/19/2022	--	1.1 U	--	--	--	--	--	660
NPA-SW/SD09	Neshaminy	NPA-SW09-20220421	4/21/2022	--	1 U	--	--	--	--	--	2600
NPA-SW/SD11	Neshaminy	NPA-SW11-20220419	4/19/2022	--	0.98 U	--	--	--	--	--	270
NPA-SW/SD21	Neshaminy	NPA-SW21-20220420	4/20/2022	--	1 U	--	--	--	--	--	54
WGNA-SW/SD-01	Neshaminy	SW-01-022515	2/25/2015	--	--	--	--	--	--	--	2475
WGNA-SW/SD-01	Neshaminy	SW-01-042516	4/25/2016	--	--	--	--	--	--	--	3020
WGNA-SW/SD-01	Neshaminy	SW-01-080717	8/7/2017	--	16 U	--	--	--	--	--	1408
WGNA-SW/SD-01	Neshaminy	SW-01-080717-D	8/7/2017	--	16 U	--	--	--	--	--	1316
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	2543
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200129	1/29/2020	--	0.88 U	--	--	--	--	--	1161
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20200504	5/4/2020	--	0.89 UJ	--	--	--	--	--	1398
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210112	1/12/2021	--	0.833 U	--	--	--	--	--	1239
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210316	3/16/2021	--	0.909 U	--	--	--	--	--	1905
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210629	6/29/2021	--	0.951 U	--	--	--	--	--	4371
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20210921	9/21/2021	--	2.31 U	--	--	--	--	--	2823
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20211215	12/15/2021	--	2.26 U	--	--	--	--	--	2951
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220322	3/22/2022	--	2.06 U	--	--	--	--	--	1311
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20220615	6/15/2022	--	2.32 U	--	--	--	--	--	2206
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20221206	12/6/2022	--	2.28 U	--	--	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20230321	3/21/2023	--	2.32 U	--	--	--	--	--	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240103	1/3/2024	0.406 U	1.34 U	1.55 U	0.433 U	1.28 U	1.22 U	0.367 U	--
WGNA-SW/SD-01	Neshaminy	WGNA-SW-01-20240320	3/20/2024	0.418 U	1.38 U	1.6 U	0.445 U	1.32 U	1.26 U	0.378 U	670
WGNA-SW/SD-02	Neshaminy	SW-02-022515	2/25/2015	--	--	--	--	--	--	--	1240
WGNA-SW/SD-02	Neshaminy	SW-02-042516	4/25/2016	--	--	--	--	--	--	--	698
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	885
WGNA-SW/SD-02	Neshaminy	WGNA-SW-02-20190725-D	7/25/2019	--	1.72 U	--	--	--	--	--	953
WGNA-SW/SD-03	Neshaminy	SW-03-022515	2/25/2015	--	--	--	--	--	--	--	604
WGNA-SW/SD-03	Neshaminy	SW-03-042516	4/25/2016	--	--	--	--	--	--	--	470
WGNA-SW/SD-03	Neshaminy	SW-03-080717	8/7/2017	--	16 U	--	--	--	--	--	911
WGNA-SW/SD-03	Neshaminy	SW-03-081017	8/10/2017	--	16 U	--	--	--	--	--	716
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	684
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20191022	10/22/2019	--	0.82 U	--	--	--	--	--	333
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200129	1/29/2020	--	0.85 U	--	--	--	--	--	428
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200504	5/4/2020	--	0.86 U	--	--	--	--	--	419
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20200915	9/15/2020	--	0.89 U	--	--	--	--	--	283
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210112	1/12/2021	--	0.806 U	--	--	--	--	--	517
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210316	3/16/2021	--	0.862 U	--	--	--	--	--	657
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210629	6/29/2021	--	0.893 U	--	--	--	--	--	406
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20210921	9/21/2021	--	2.15 U	--	--	--	--	--	602
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20211215	12/15/2021	--	2.22 U	--	--	--	--	--	309
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20220915	9/15/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20221206	12/6/2022	--	2.19 U	--	--	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUOROOCTANESULFONAMIDE (N-MEFOSA)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NMFOSA)	NONAFLUORO-3,6-DIOHEPATANOIC ACID (NFDHA)	PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPROPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBUTANOIC ACID(PFMBA)	PERFLUORODODECANESULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230321	3/21/2023	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230606	6/6/2023	--	2.49 U	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20230920	9/20/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240103	1/3/2024	0.368 U	1.21 U	1.4 U	0.392 U	1.16 U	1.11 U	0.333 U	--
WGNA-SW/SD-03	Neshaminy	WGNA-SW-03-20240320	3/20/2024	0.361 U	1.19 U	1.38 U	0.384 U	1.14 U	1.09 U	0.326 U	602
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220322	3/22/2022	--	2.07 U	--	--	--	--	--	435
WGNA-SW/SD-03A	Neshaminy	WGNA-SW-03A-20220615	6/15/2022	--	2.31 U	--	--	--	--	--	484
WGNA-SW/SD-04	Neshaminy	SW-04-022515	2/25/2015	--	--	--	--	--	--	--	414
WGNA-SW/SD-04	Neshaminy	SW-04-042916	4/29/2016	--	--	--	--	--	--	--	246
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240103	1/3/2024	0.358 U	1.18 U	1.37 U	0.381 U	1.13 U	1.08 U	0.324 U	--
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320	3/20/2024	0.357 U	1.18 U	1.36 U	0.381 U	1.13 U	1.08 U	0.323 U	174
WGNA-SW/SD-04	Neshaminy	WGNA-SW-04-20240320-D	3/20/2024	0.377 U	1.24 U	1.44 U	0.402 U	1.19 U	1.14 U	0.341 U	184
WGNA-SW/SD-05	Neshaminy	SW-05-042816	4/28/2016	--	--	--	--	--	--	--	160
WGNA-SW/SD-05	Neshaminy	SW-05-081017	8/10/2017	--	16 U	--	--	--	--	--	264
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	257
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022	10/22/2019	--	0.83 U	--	--	--	--	--	155
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191022-D	10/22/2019	--	0.83 U	--	--	--	--	--	146
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20191025	10/25/2019	--	0.83 U	--	--	--	--	--	112
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129	1/29/2020	--	0.82 U	--	--	--	--	--	144
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200129-D	1/29/2020	--	0.82 U	--	--	--	--	--	151
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200504	5/4/2020	--	0.83 U	--	--	--	--	--	171
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20200915	9/15/2020	--	0.83 U	--	--	--	--	--	143
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210112	1/12/2021	--	0.806 U	--	--	--	--	--	154
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210316	3/16/2021	--	0.943 U	--	--	--	--	--	133
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210629	6/29/2021	--	0.909 U	--	--	--	--	--	224
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20210921	9/21/2021	--	2.2 U	--	--	--	--	--	274
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20211215	12/15/2021	--	2.24 U	--	--	--	--	--	167
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322	3/22/2022	--	2.08 U	--	--	--	--	--	152
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220322-D	3/22/2022	--	2.13 U	--	--	--	--	--	156
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220615	6/15/2022	--	2.16 U	--	--	--	--	--	195
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20220915	9/15/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20221206	12/6/2022	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230321	3/21/2023	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230606	6/6/2023	--	2.11 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920	9/20/2023	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20230920-D	9/20/2023	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240103	1/3/2024	0.386 U	1.27 U	1.48 U	0.412 U	1.22 U	1.17 U	0.35 U	--
WGNA-SW/SD-05	Neshaminy	WGNA-SW-05-20240320	3/20/2024	0.38 U	1.25 U	1.45 U	0.405 U	1.2 U	1.15 U	0.344 U	132
WGNA-SW/SD-06	Neshaminy	SW-06-022515	2/25/2015	--	--	--	--	--	--	--	48
WGNA-SW/SD-06	Neshaminy	SW-06-042916	4/29/2016	--	--	--	--	--	--	--	31.4
WGNA-SW/SD-07	Neshaminy	SW-07-022315	2/23/2015	--	--	--	--	--	--	--	13.8
WGNA-SW/SD-07	Neshaminy	SW-07-042816	4/28/2016	--	--	--	--	--	--	--	8.11
WGNA-SW/SD-08	Neshaminy	SW-08-022315	2/23/2015	--	--	--	--	--	--	--	19.8
WGNA-SW/SD-08	Neshaminy	SW-08-042816	4/28/2016	--	--	--	--	--	--	--	23.7
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220615	6/15/2022	--	2.21 U	--	--	--	--	--	21.1

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20220915	9/15/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20221206	12/6/2022	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230321	3/21/2023	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-08A	Neshaminy	WGNA-SW-08A-20230606	6/6/2023	--	2.21 U	--	--	--	--	--	--
WGNA-SW/SD-09	Neshaminy	SW-09-022315	2/23/2015	--	--	--	--	--	--	--	17.6
WGNA-SW/SD-09	Neshaminy	SW-09-042816	4/28/2016	--	--	--	--	--	--	--	26.7
WGNA-SW/SD-10	Neshaminy	SW-10-042816	4/28/2016	--	--	--	--	--	--	--	31.4
WGNA-SW/SD-10	Neshaminy	SW-10-081017	8/10/2017	--	17 U	--	--	--	--	--	24.8
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	16.2
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025	10/25/2019	--	0.81 U	--	--	--	--	--	10.1
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20191025-D	10/25/2019	--	0.89 U	--	--	--	--	--	12.6
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200129	1/29/2020	--	0.85 U	--	--	--	--	--	12.3
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504	5/4/2020	--	0.85 U	--	--	--	--	--	18.6
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200504-D	5/4/2020	--	0.85 U	--	--	--	--	--	17.8
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915	9/15/2020	--	0.83 U	--	--	--	--	--	16.4
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20200915-D	9/15/2020	--	0.83 UJ	--	--	--	--	--	16.5
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210112	1/12/2021	--	0.806 U	--	--	--	--	--	12.7
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210316	3/16/2021	--	0.909 U	--	--	--	--	--	12.1
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210629	6/29/2021	--	0.903 U	--	--	--	--	--	26.4
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20210921	9/21/2021	--	2.17 U	--	--	--	--	--	22.9
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215	12/15/2021	--	2.26 U	--	--	--	--	--	14.5
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20211215-D	12/15/2021	--	2.21 U	--	--	--	--	--	14.2
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220322	3/22/2022	--	2.15 U	--	--	--	--	--	19.1
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220615	6/15/2022	--	2.35 U	--	--	--	--	--	20.2
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20220915	9/15/2022	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230606	6/6/2023	--	2.23 U	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20230920	9/20/2023	--	2.22 U	--	--	--	--	--	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240103	1/3/2024	0.362 U	1.19 U	1.38 U	0.386 U	1.14 U	1.09 U	0.328 U	--
WGNA-SW/SD-10	Neshaminy	WGNA-SW-10-20240320	3/20/2024	0.368 U	1.21 U	1.4 U	0.392 U	1.16 U	1.11 U	0.333 U	14.7
WGNA-SW/SD-11	Neshaminy	SW-11-042816	4/28/2016	--	--	--	--	--	--	--	76.2
WGNA-SW/SD-12	Neshaminy	SW-12-042716	4/27/2016	--	--	--	--	--	--	--	91.8
WGNA-SW/SD-12	Neshaminy	SW-12-081017	8/10/2017	--	17 U	--	--	--	--	--	84.1
WGNA-SW/SD-13	Neshaminy	SW-13-022315	2/23/2015	--	--	--	--	--	--	--	117
WGNA-SW/SD-13	Neshaminy	SW-13-042716	4/27/2016	--	--	--	--	--	--	--	83.4
WGNA-SW/SD-14	Neshaminy	SW-14-022315	2/23/2015	--	--	--	--	--	--	--	135
WGNA-SW/SD-14	Neshaminy	SW-14-042716	4/27/2016	--	--	--	--	--	--	--	89.8
WGNA-SW/SD-14	Neshaminy	SW-14-081017	8/10/2017	--	17 U	--	--	--	--	--	124
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20190726	7/26/2019	--	1.82 UJ	--	--	--	--	--	105
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20191025	10/25/2019	--	0.46 J	--	--	--	--	--	60.4
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200129	1/29/2020	--	0.81 U	--	--	--	--	--	55
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	57.4
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200504	5/4/2020	--	0.85 U	--	--	--	--	--	82.3
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200505	5/5/2020	--	0.91 U	--	--	--	--	--	70.1
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200915	9/15/2020	--	0.81 U	--	--	--	--	--	175
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20200916	9/16/2020	--	0.85 UJ	--	--	--	--	--	125

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210112	1/12/2021	--	1.1 U	--	--	--	--	--	65
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210316	3/16/2021	--	1 U	--	--	--	--	--	62
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210629	6/29/2021	--	0.883 U	--	--	--	--	--	129
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20210921	9/21/2021	--	2.17 U	--	--	--	--	--	132
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20211215	12/15/2021	--	1.1 U	--	--	--	--	--	93
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220322	3/22/2022	--	1 U	--	--	--	--	--	69
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220615	6/15/2022	--	2.34 U	--	--	--	--	--	172
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20220915	9/15/2022	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230321	3/21/2023	--	0.97 U	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230606	6/6/2023	--	2.33 U	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20230920	9/20/2023	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240103	1/3/2024	0.357 U	1.17 U	1.36 U	0.38 U	1.13 U	1.08 U	0.323 U	--
WGNA-SW/SD-14	Neshaminy	WGNA-SW-14-20240320	3/20/2024	0.377 U	1.24 U	1.44 U	0.402 U	1.19 U	1.14 U	0.341 U	69.5
WGNA-SW/SD-15	Neshaminy	SW-15-022315	2/23/2015	--	--	--	--	--	--	--	174
WGNA-SW/SD-15	Neshaminy	SW-15-042716	4/27/2016	--	--	--	--	--	--	--	163
WGNA-SW/SD-15	Neshaminy	SW-15-081017	8/10/2017	--	16 U	--	--	--	--	--	124
WGNA-SW/SD-16	Neshaminy	SW-16-022315	2/23/2015	--	--	--	--	--	--	--	185
WGNA-SW/SD-16	Neshaminy	SW-16-042816	4/28/2016	--	--	--	--	--	--	--	160
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20190726	7/26/2019	--	1.82 U	--	--	--	--	--	88.4
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20191025	10/25/2019	--	0.82 U	--	--	--	--	--	55.2
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	61.1
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	74.4
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20200916	9/16/2020	--	0.85 U	--	--	--	--	--	104
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112	1/12/2021	--	1.1 U	--	--	--	--	--	63
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210112-D	1/12/2021	--	1 U	--	--	--	--	--	70
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210316	3/16/2021	--	1.1 U	--	--	--	--	--	60
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629	6/29/2021	--	0.883 U	--	--	--	--	--	107
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210629-D	6/29/2021	--	0.883 U	--	--	--	--	--	110
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20210921	9/21/2021	--	2.19 U	--	--	--	--	--	125
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20211215	12/15/2021	--	1 U	--	--	--	--	--	86
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220322	3/22/2022	--	1 U	--	--	--	--	--	66
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220615	6/15/2022	--	2.23 U	--	--	--	--	--	118
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20220915	9/15/2022	--	2.12 U	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20221206-D	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230321	3/21/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606	6/6/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230606-D	6/6/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-16	Neshaminy	WGNA-SW-16-20230920	9/20/2023	--	2.28 U	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	SW-17-022415	2/24/2015	--	--	--	--	--	--	--	252
WGNA-SW/SD-17	Neshaminy	SW-17-042816	4/28/2016	--	--	--	--	--	--	--	180
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	91.7
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20200916	9/16/2020	--	0.93 U	--	--	--	--	--	162
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210112	1/12/2021	--	1 U	--	--	--	--	--	113

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210316	3/16/2021	--	1 U	--	--	--	--	--	69
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629	6/29/2021	--	1 U	--	--	--	--	--	94
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210629-D	6/29/2021	--	1 U	--	--	--	--	--	99
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20210921	9/21/2021	--	1 U	--	--	--	--	--	131
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20211215	12/15/2021	--	1 U	--	--	--	--	--	70
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220322	3/22/2022	--	0.99 U	--	--	--	--	--	78
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220615	6/15/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230321	3/21/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230606	6/6/2023	--	0.81 U	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230920	9/20/2023	--	2.3 U	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20230921	9/21/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240103	1/3/2024	0.35 U	1.15 U	1.34 U	0.373 U	1.11 U	1.06 U	0.317 U	--
WGNA-SW/SD-17	Neshaminy	WGNA-SW-17-20240320	3/20/2024	0.406 U	1.34 U	1.55 U	0.433 U	1.28 U	1.22 U	0.367 U	77.1
WGNA-SW/SD-18	Neshaminy	SW-18-022415	2/24/2015	--	--	--	--	--	--	--	339
WGNA-SW/SD-18	Neshaminy	SW-18-042816	4/28/2016	--	--	--	--	--	--	--	186
WGNA-SW/SD-18	Neshaminy	SW-18-081017	8/10/2017	--	16 U	--	--	--	--	--	136
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	96.4
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	102
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200505	5/5/2020	--	0.83 U	--	--	--	--	--	157
WGNA-SW/SD-18	Neshaminy	WGNA-SW-18-20200916	9/16/2020	--	0.85 U	--	--	--	--	--	120
WGNA-SW/SD-19	Neshaminy	SW-19-022415	2/24/2015	--	--	--	--	--	--	--	463
WGNA-SW/SD-19	Neshaminy	SW-19-042816	4/28/2016	--	--	--	--	--	--	--	305
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20190726	7/26/2019	--	1.69 U	--	--	--	--	--	208
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20191025	10/25/2019	--	0.86 U	--	--	--	--	--	150
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	174
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200505	5/5/2020	--	0.82 U	--	--	--	--	--	213
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20200916	9/16/2020	--	0.86 U	--	--	--	--	--	164
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210112	1/12/2021	--	1 U	--	--	--	--	--	106
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210316	3/16/2021	--	1.1 U	--	--	--	--	--	101
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210629	6/29/2021	--	1 U	--	--	--	--	--	153
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921	9/21/2021	--	0.99 U	--	--	--	--	--	184
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20210921-D	9/21/2021	--	1 U	--	--	--	--	--	173
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20211215	12/15/2021	--	0.99 U	--	--	--	--	--	85
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220322	3/22/2022	--	1.1 U	--	--	--	--	--	102
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220615	6/15/2022	--	0.99 R	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230321	3/21/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606	6/6/2023	--	0.81 U	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230606-D	6/6/2023	--	0.82 U	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921	9/21/2023	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20230921-D	9/21/2023	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240103	1/3/2024	0.352 U	1.16 U	1.35 U	0.375 U	1.11 U	1.06 U	0.319 U	--

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240319	3/19/2024	0.376 U	1.24 U	1.44 U	0.401 U	1.19 U	1.13 U	0.34 U	111
WGNA-SW/SD-19	Neshaminy	WGNA-SW-19-20240320	3/20/2024	0.399 U	1.31 U	1.52 U	0.425 U	1.26 U	1.2 U	0.361 U	108
WGNA-SW/SD-20	Neshaminy	SW-20-022415	2/24/2015	--	--	--	--	--	--	--	440
WGNA-SW/SD-20	Neshaminy	SW-20-042616	4/26/2016	--	--	--	--	--	--	--	415
WGNA-SW/SD-20	Neshaminy	SW-20-081017	8/10/2017	--	16 U	--	--	--	--	--	352
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20190726	7/26/2019	--	1.67 U	--	--	--	--	--	239
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20191025	10/25/2019	--	0.93 U	--	--	--	--	--	124
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	146
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200505	5/5/2020	--	0.83 U	--	--	--	--	--	192
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20200916	9/16/2020	--	0.83 U	--	--	--	--	--	163
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210111	1/11/2021	--	1 U	--	--	--	--	--	115
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210315	3/15/2021	--	1 U	--	--	--	--	--	110
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210316	3/16/2021	--	1 U	--	--	--	--	--	92
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210629	6/29/2021	--	1 U	--	--	--	--	--	143
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20210921	9/21/2021	--	0.99 U	--	--	--	--	--	155
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211214	12/14/2021	--	1 U	--	--	--	--	--	80
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20211215	12/15/2021	--	1 U	--	--	--	--	--	82
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220321	3/21/2022	--	1 U	--	--	--	--	--	93
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220322	3/22/2022	--	0.99 U	--	--	--	--	--	92
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220615	6/15/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221205	12/5/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230320	3/20/2023	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230321	3/21/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230606	6/6/2023	--	0.84 U	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20230921	9/21/2023	--	2.22 U	--	--	--	--	--	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240103	1/3/2024	0.357 U	1.18 U	1.36 U	0.381 U	1.13 U	1.08 U	0.323 U	--
WGNA-SW/SD-20	Neshaminy	WGNA-SW-20-20240319	3/19/2024	0.375 U	1.24 U	1.43 U	0.4 U	1.18 U	1.13 U	0.34 U	112
WGNA-SW/SD-21A	Neshaminy	SW-21A-042716	4/27/2016	--	--	--	--	--	--	--	3623
WGNA-SW/SD-21A	Neshaminy	SW-21A-080717	8/7/2017	--	16 U	--	--	--	--	--	668
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	1402
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20191025	10/25/2019	--	0.89 U	--	--	--	--	--	826
WGNA-SW/SD-21A	Neshaminy	WGNA-SW-21A-20200505	5/5/2020	--	0.93 U	--	--	--	--	--	757
WGNA-SW/SD-21B	Neshaminy	SW-21B-042716	4/27/2016	--	--	--	--	--	--	--	1155
WGNA-SW/SD-22	Neshaminy	SW-22-022515	2/25/2015	--	--	--	--	--	--	--	1379
WGNA-SW/SD-22A	Neshaminy	SW-22A-022515	2/25/2015	--	--	--	--	--	--	--	1188
WGNA-SW/SD-22B	Neshaminy	SW-22B-022515	2/25/2015	--	--	--	--	--	--	--	1830
WGNA-SW/SD-22B	Neshaminy	SW-22B-042716	4/27/2016	--	--	--	--	--	--	--	1437
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716	4/27/2016	--	--	--	--	--	--	--	733
WGNA-SW/SD-23A	Neshaminy	SW-23A-042716-D	4/27/2016	--	--	--	--	--	--	--	834
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717	8/7/2017	--	16 U	--	--	--	--	--	208
WGNA-SW/SD-23A	Neshaminy	SW-23A-080717-D	8/7/2017	--	15 U	--	--	--	--	--	207
WGNA-SW/SD-23B	Neshaminy	SW-23B-042716	4/27/2016	--	--	--	--	--	--	--	1452
WGNA-SW/SD-24A	Neshaminy	SW-24A-042716	4/27/2016	--	--	--	--	--	--	--	32.3

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-24B	Neshaminy	SW-24B-042716	4/27/2016	--	--	--	--	--	--	--	59
WGNA-SW/SD-25	Neshaminy	SW-25-022315	2/23/2015	--	--	--	--	--	--	--	373
WGNA-SW/SD-25	Neshaminy	SW-25-042716	4/27/2016	--	--	--	--	--	--	--	326
WGNA-SW/SD-25	Neshaminy	SW-25-081017	8/10/2017	--	17 U	--	--	--	--	--	40.4
WGNA-SW/SD-26	Neshaminy	SW-26-022715	2/27/2015	--	--	--	--	--	--	--	6202
WGNA-SW/SD-26	Neshaminy	SW-26-042816	4/28/2016	--	--	--	--	--	--	--	4598
WGNA-SW/SD-26	Neshaminy	SW-26-080717	8/7/2017	--	16 U	--	--	--	--	--	577
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20190726	7/26/2019	--	1.72 U	--	--	--	--	--	2763
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20191025	10/25/2019	--	0.4 J	--	--	--	--	--	1498
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	3712
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200130-D	1/30/2020	--	0.93 U	--	--	--	--	--	3781
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200505	5/5/2020	--	0.91 U	--	--	--	--	--	3875
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20200916	9/16/2020	--	0.88 U	--	--	--	--	--	251
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210112	1/12/2021	--	1 U	--	--	--	--	--	385
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316	3/16/2021	--	1 U	--	--	--	--	--	296
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210316-D	3/16/2021	--	1.1 U	--	--	--	--	--	296
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210629	6/29/2021	--	1 U	--	--	--	--	--	763
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20210921	9/21/2021	--	1 U	--	--	--	--	--	455
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20211215	12/15/2021	--	1 U	--	--	--	--	--	441
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220322	3/22/2022	--	1 U	--	--	--	--	--	466
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220615	6/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20221206	12/6/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230321	3/21/2023	--	0.99 U	--	--	--	--	--	--
WGNA-SW/SD-26	Neshaminy	WGNA-SW-26-20230606	6/6/2023	--	0.9 U	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	SW-27-022315	2/23/2015	--	--	--	--	--	--	--	2181
WGNA-SW/SD-27	Neshaminy	SW-27-022315-D	2/23/2015	--	--	--	--	--	--	--	2221
WGNA-SW/SD-27	Neshaminy	SW-27-042816	4/28/2016	--	--	--	--	--	--	--	3621
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20190726	7/26/2019	--	1.67 U	--	--	--	--	--	2204
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20191025	10/25/2019	--	0.91 U	--	--	--	--	--	1413
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	2075
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505	5/5/2020	--	0.94 U	--	--	--	--	--	2592
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200505-D	5/5/2020	--	0.82 U	--	--	--	--	--	2545
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916	9/16/2020	--	0.91 U	--	--	--	--	--	743
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20200916-D	9/16/2020	--	0.88 U	--	--	--	--	--	769
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210112	1/12/2021	--	1 U	--	--	--	--	--	481
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210316	3/16/2021	--	1.1 U	--	--	--	--	--	478
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210629	6/29/2021	--	1 U	--	--	--	--	--	618
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20210921	9/21/2021	--	1 U	--	--	--	--	--	617
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215	12/15/2021	--	1 U	--	--	--	--	--	357
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20211215-D	12/15/2021	--	1 U	--	--	--	--	--	447
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322	3/22/2022	--	1 U	--	--	--	--	--	470
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220322-D	3/22/2022	--	1 U	--	--	--	--	--	493
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615	6/15/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220615-D	6/15/2022	--	1.1 U	--	--	--	--	--	--

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915	9/15/2022	--	1 R	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20220915-D	9/15/2022	--	0.98 UJ	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321	3/21/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230321-D	3/21/2023	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-27	Neshaminy	WGNA-SW-27-20230606	6/6/2023	--	0.86 U	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	SW-28-022415	2/24/2015	--	--	--	--	--	--	--	3634
WGNA-SW/SD-28	Neshaminy	SW-28-042816	4/28/2016	--	--	--	--	--	--	--	2912
WGNA-SW/SD-28	Neshaminy	SW-28-081017	8/10/2017	--	15 U	--	--	--	--	--	4075
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726	7/26/2019	--	1.89 U	--	--	--	--	--	2626
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20190726-D	7/26/2019	--	1.79 U	--	--	--	--	--	2486
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20191025	10/25/2019	--	0.81 U	--	--	--	--	--	1711
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	2668
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200505	5/5/2020	--	0.86 U	--	--	--	--	--	2627
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20200916	9/16/2020	--	0.83 U	--	--	--	--	--	718
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210112	1/12/2021	--	1.1 U	--	--	--	--	--	675
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210316	3/16/2021	--	1.1 U	--	--	--	--	--	487
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210629	6/29/2021	--	1 U	--	--	--	--	--	105
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20210921	9/21/2021	--	1.1 U	--	--	--	--	--	647
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20211215	12/15/2021	--	1 U	--	--	--	--	--	375
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220322	3/22/2022	--	0.99 U	--	--	--	--	--	676
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220615	6/15/2022	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20221206	12/6/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230321	3/21/2023	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230606	6/6/2023	--	0.82 U	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20230921	9/21/2023	--	2.27 U	--	--	--	--	--	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240103	1/3/2024	0.352 U	1.16 U	1.34 U	0.375 U	1.11 U	1.06 U	0.318 U	--
WGNA-SW/SD-28	Neshaminy	WGNA-SW-28-20240320	3/20/2024	0.387 U	1.27 U	1.48 U	0.412 U	1.22 U	1.17 U	0.35 U	401
WGNA-SW/SD-29	Neshaminy	SW-29-022415	2/24/2015	--	--	--	--	--	--	--	21.6
WGNA-SW/SD-29	Neshaminy	SW-29-042816	4/28/2016	--	--	--	--	--	--	--	21.5
WGNA-SW/SD-29	Neshaminy	SW-29-042816-D	4/28/2016	--	--	--	--	--	--	--	23.1
WGNA-SW/SD-30	Neshaminy	SW-30-042616	4/26/2016	--	--	--	--	--	--	--	24.7
WGNA-SW/SD-30	Neshaminy	SW-30-081017	8/10/2017	--	16 U	--	--	--	--	--	26.2
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20190726	7/26/2019	--	1.67 U	--	--	--	--	--	26.2
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20191025	10/25/2019	--	0.83 U	--	--	--	--	--	12.7
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	12.7
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200505	5/5/2020	--	0.85 U	--	--	--	--	--	16.1
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20200916	9/16/2020	--	0.85 U	--	--	--	--	--	17.2
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210111	1/11/2021	--	1.1 U	--	--	--	--	--	10.9
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112	1/12/2021	--	1 U	--	--	--	--	--	10.7
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210112-D	1/12/2021	--	1 U	--	--	--	--	--	10.6
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210315	3/15/2021	--	1 U	--	--	--	--	--	11.3
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210629	6/29/2021	--	1.1 U	--	--	--	--	--	25.4
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20210921	9/21/2021	--	1 U	--	--	--	--	--	22.7

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Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20211214	12/14/2021	--	1 U	--	--	--	--	--	17.3
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321	3/21/2022	--	1 U	--	--	--	--	--	19.1
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220321-D	3/21/2022	--	1 U	--	--	--	--	--	15.5
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220615	6/15/2022	--	0.99 R	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20220915	9/15/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230320	3/20/2023	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230606	6/6/2023	--	0.81 U	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20230921	9/21/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240103	1/3/2024	0.359 U	1.18 U	1.37 U	0.383 U	1.13 U	1.08 U	0.325 U	--
WGNA-SW/SD-30	Neshaminy	WGNA-SW-30-20240319	3/19/2024	0.389 U	1.28 U	1.49 U	0.415 U	1.23 U	1.17 U	0.352 U	14.8
WGNA-SW/SD-31	Neshaminy	SW-31-042616	4/26/2016	--	--	--	--	--	--	--	264
WGNA-SW/SD-31	Neshaminy	SW-31-081017	8/10/2017	--	16 U	--	--	--	--	--	202
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20190726	7/26/2019	--	1.69 U	--	--	--	--	--	109
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20191025	10/25/2019	--	0.88 U	--	--	--	--	--	55.4
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200130	1/30/2020	--	0.85 U	--	--	--	--	--	132
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200505	5/5/2020	--	0.85 U	--	--	--	--	--	181
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20200916	9/16/2020	--	0.88 U	--	--	--	--	--	133
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210111	1/11/2021	--	1 U	--	--	--	--	--	109
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210315	3/15/2021	--	1.1 U	--	--	--	--	--	103
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210628	6/28/2021	--	1.1 U	--	--	--	--	--	94
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210629	6/29/2021	--	1 U	--	--	--	--	--	102
WGNA-SW/SD-31	Neshaminy	WGNA-SW-31-20210920	9/20/2021	--	0.99 U	--	--	--	--	--	87
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220614	6/14/2022	--	0.97 U	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220615	6/15/2022	--	0.99 U	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220915	9/15/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20220916	9/16/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230320	3/20/2023	--	0.97 U	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230605	6/5/2023	--	0.8 U	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230606	6/6/2023	--	0.84 U	--	--	--	--	--	--
WGNA-SW/SD-31A	Neshaminy	WGNA-SW-31A-20230921	9/21/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-32	Neshaminy	SW-32-042616	4/26/2016	--	--	--	--	--	--	--	244
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200505	5/5/2020	--	0.93 U	--	--	--	--	--	109
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20200916	9/16/2020	--	0.86 U	--	--	--	--	--	114
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210111	1/11/2021	--	1 U	--	--	--	--	--	84
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210628	6/28/2021	--	1 U	--	--	--	--	--	123
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210920	9/20/2021	--	1 U	--	--	--	--	--	127
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20210921	9/21/2021	--	0.99 U	--	--	--	--	--	124
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20211214	12/14/2021	--	1 U	--	--	--	--	--	95
WGNA-SW/SD-32	Neshaminy	WGNA-SW-32-20220321	3/21/2022	--	1 U	--	--	--	--	--	59
WGNA-SW/SD-33	Neshaminy	SW-33-022415	2/24/2015	--	--	--	--	--	--	--	235
WGNA-SW/SD-33	Neshaminy	SW-33-022415-D	2/24/2015	--	--	--	--	--	--	--	247
WGNA-SW/SD-33	Neshaminy	SW-33-042616	4/26/2016	--	--	--	--	--	--	--	213
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20200505	5/5/2020	--	0.86 U	--	--	--	--	--	100

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
		Human Health PSLs (ng/L) [1,2]		NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC
		Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]		NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210111	1/11/2021	--	1 U	--	--	--	--	--	78
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210628	6/28/2021	--	1 U	--	--	--	--	--	134
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20210920	9/20/2021	--	1 U	--	--	--	--	--	123
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214	12/14/2021	--	1 U	--	--	--	--	--	85
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20211214-D	12/14/2021	--	1 U	--	--	--	--	--	63
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220321	3/21/2022	--	1 U	--	--	--	--	--	57
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220614	6/14/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916	9/16/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20220916-D	9/16/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320	3/20/2023	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230320-D	3/20/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230605	6/5/2023	--	0.83 U	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20230921	9/21/2023	--	2.28 U	--	--	--	--	--	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240103	1/3/2024	0.36 U	1.18 U	1.37 U	0.383 U	1.14 U	1.08 U	0.325 U	--
WGNA-SW/SD-33	Neshaminy	WGNA-SW-33-20240319	3/19/2024	0.381 U	1.25 U	1.46 U	0.406 U	1.2 U	1.15 U	0.345 U	87.1
WGNA-SW/SD-34	Neshaminy	SW-34-042616	4/26/2016	--	--	--	--	--	--	--	254
WGNA-SW/SD-34	Neshaminy	SW-34-081017	8/10/2017	--	16 U	--	--	--	--	--	227
WGNA-SW/SD-34	Neshaminy	SW-34-081017-D	8/10/2017	--	17 U	--	--	--	--	--	222
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20190726	7/26/2019	--	1.89 U	--	--	--	--	--	105
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20191025	10/25/2019	--	0.82 U	--	--	--	--	--	67.4
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200130	1/30/2020	--	0.83 U	--	--	--	--	--	136
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200505	5/5/2020	--	0.93 U	--	--	--	--	--	103
WGNA-SW/SD-34	Neshaminy	WGNA-SW-34-20200916	9/16/2020	--	0.88 U	--	--	--	--	--	127
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	107
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20191025	10/25/2019	--	0.82 UJ	--	--	--	--	--	68.3
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200130	1/30/2020	--	0.82 U	--	--	--	--	--	119
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	109
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20200916	9/16/2020	--	0.88 U	--	--	--	--	--	124
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210111	1/11/2021	--	1 U	--	--	--	--	--	102
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210315	3/15/2021	--	1.1 U	--	--	--	--	--	89
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210628	6/28/2021	--	1 U	--	--	--	--	--	160
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20210920	9/20/2021	--	1 U	--	--	--	--	--	150
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20211214	12/14/2021	--	1 U	--	--	--	--	--	75
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220321	3/21/2022	--	1 U	--	--	--	--	--	89
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220614	6/14/2022	--	0.97 U	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20220916	9/16/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230320	3/20/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605	6/5/2023	--	0.82 U	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230605-D	6/5/2023	--	0.81 U	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20230921	9/21/2023	--	0.993 J	--	--	--	--	--	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240103	1/3/2024	0.374 U	1.23 U	1.43 U	0.398 U	1.18 U	1.13 U	0.338 U	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240104	1/4/2024	0.366 U	1.2 U	1.4 U	0.39 U	1.15 U	1.1 U	0.331 U	--
WGNA-SW/SD-34A	Neshaminy	WGNA-SW-34A-20240319	3/19/2024	0.393 U	1.29 U	1.5 U	0.419 U	1.24 U	1.19 U	0.356 U	116

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Former NASJRB Willow Grove
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Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-35	Neshaminy	SW-35-042616	4/26/2016	--	--	--	--	--	--	--	235
WGNA-SW/SD-36	Neshaminy	SW-36-022415	2/24/2015	--	--	--	--	--	--	--	223
WGNA-SW/SD-36	Neshaminy	SW-36-042616	4/26/2016	--	--	--	--	--	--	--	250
WGNA-SW/SD-36	Neshaminy	SW-36-081017	8/10/2017	--	17 U	--	--	--	--	--	205
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190726	7/26/2019	--	1.67 U	--	--	--	--	--	117
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20190729	7/29/2019	--	1.67 U	--	--	--	--	--	162
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505	5/5/2020	--	0.93 U	--	--	--	--	--	94.6
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200505-D	5/5/2020	--	0.86 U	--	--	--	--	--	87.8
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	108
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200506-D	5/6/2020	--	0.82 U	--	--	--	--	--	105
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916	9/16/2020	--	0.88 U	--	--	--	--	--	113
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200916-D	9/16/2020	--	0.86 U	--	--	--	--	--	103
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20200917	9/17/2020	--	0.88 U	--	--	--	--	--	104
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210628	6/28/2021	--	1 U	--	--	--	--	--	137
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210630	6/30/2021	--	0.883 U	--	--	--	--	--	123
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210920	9/20/2021	--	1.1 U	--	--	--	--	--	127
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20210922	9/22/2021	--	2.13 U	--	--	--	--	--	149
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220614	6/14/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220621	6/21/2022	--	2.24 U	--	--	--	--	--	119
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20220916	9/16/2022	--	2.15 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230605	6/5/2023	--	0.8 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230607	6/7/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921	9/21/2023	--	2.33 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230921-D	9/21/2023	--	2.32 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20230922	9/22/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-36	Neshaminy	WGNA-SW-36-20240319	3/19/2024	0.374 U	1.23 U	1.43 U	0.398 U	1.18 U	1.13 U	0.338 U	74.6
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220621	6/21/2022	--	2.13 U	--	--	--	--	--	76.2
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20220916	9/16/2022	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20221205	12/5/2022	--	2.39 U	--	--	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230320	3/20/2023	--	2.27 U	--	--	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230607	6/7/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20230922	9/22/2023	--	1.09 J	--	--	--	--	--	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240104	1/4/2024	0.367 U	1.21 U	1.4 U	0.391 U	1.16 U	1.11 U	0.332 U	--
WGNA-SW/SD-36A	Neshaminy	WGNA-SW-36A-20240319	3/19/2024	0.404 U	1.33 U	1.54 U	0.43 U	1.27 U	1.22 U	0.365 U	91.5
WGNA-SW/SD-37	Neshaminy	SW-37-042616	4/26/2016	--	--	--	--	--	--	--	274
WGNA-SW/SD-39	Neshaminy	SW-39-022715	2/27/2015	--	--	--	--	--	--	--	407
WGNA-SW/SD-39	Neshaminy	SW-39-042916	4/29/2016	--	--	--	--	--	--	--	141
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20220621	6/21/2022	--	2.09 U	--	--	--	--	--	334
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230320	3/20/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230607	6/7/2023	--	2.21 U	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20230922	9/22/2023	--	2.49 U	--	--	--	--	--	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103	1/3/2024	0.37 UJ	1.22 UJ	1.41 UJ	0.394 UJ	1.17 UJ	1.12 UJ	0.335 UJ	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240103-D	1/3/2024	0.356 UJ	1.17 UJ	1.36 UJ	0.379 UJ	1.12 UJ	1.07 UJ	0.322 UJ	--
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319	3/19/2024	0.37 U	1.22 U	1.41 U	0.394 U	1.17 U	1.12 U	0.335 U	207

Table D1: Historical Surface Water Analytical Data
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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-39A	Neshaminy	WGNA-SW-39A-20240319-D	3/19/2024	0.4 U	1.32 U	1.53 U	0.426 U	1.26 U	1.2 U	0.361 U	184
WGNA-SW/SD-40	Neshaminy	SW-40-022715	2/27/2015	--	--	--	--	--	--	--	262
WGNA-SW/SD-40	Neshaminy	SW-40-022715-D	2/27/2015	--	--	--	--	--	--	--	260
WGNA-SW/SD-40	Neshaminy	SW-40-042916	4/29/2016	--	--	--	--	--	--	--	158
WGNA-SW/SD-41	Neshaminy	SW-41-042916	4/29/2016	--	--	--	--	--	--	--	483
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	422
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20190726-D	7/26/2019	--	1.79 U	--	--	--	--	--	500
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025	10/25/2019	--	0.85 U	--	--	--	--	--	370
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20191025-D	10/25/2019	--	0.82 U	--	--	--	--	--	329
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200130	1/30/2020	--	0.81 U	--	--	--	--	--	398
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200505	5/5/2020	--	0.94 U	--	--	--	--	--	246
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20200916	9/16/2020	--	0.98 U	--	--	--	--	--	461
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210111	1/11/2021	--	1 U	--	--	--	--	--	404
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315	3/15/2021	--	1 U	--	--	--	--	--	302
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210315-D	3/15/2021	--	1 U	--	--	--	--	--	301
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628	6/28/2021	--	1 U	--	--	--	--	--	600
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210628-D	6/28/2021	--	1 U	--	--	--	--	--	570
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20210920	9/20/2021	--	1 U	--	--	--	--	--	500
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20211214	12/14/2021	--	0.98 U	--	--	--	--	--	381
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220321	3/21/2022	--	1 U	--	--	--	--	--	352
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220614	6/14/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20220916	9/16/2022	--	1.1 UJ	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20221205-D	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230320	3/20/2023	--	1.1 U	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230605	6/5/2023	--	0.91 U	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20230921	9/21/2023	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-41	Neshaminy	WGNA-SW-41-20240319	3/19/2024	0.416 U	1.37 U	1.59 U	0.444 U	1.31 U	1.26 U	0.377 U	341
WGNA-SW/SD-42	Neshaminy	SW-42-022415	2/24/2015	--	--	--	--	--	--	--	910
WGNA-SW/SD-42	Neshaminy	SW-42-042616	4/26/2016	--	--	--	--	--	--	--	887
WGNA-SW/SD-42	Neshaminy	SW-42-081017	8/10/2017	--	17 U	--	--	--	--	--	732
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	1231
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20191025	10/25/2019	--	0.86 U	--	--	--	--	--	690
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200130	1/30/2020	--	0.82 U	--	--	--	--	--	416
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	309
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20200916	9/16/2020	--	0.91 U	--	--	--	--	--	538
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210111	1/11/2021	--	1 U	--	--	--	--	--	359
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210315	3/15/2021	--	1.1 U	--	--	--	--	--	366
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210628	6/28/2021	--	1 U	--	--	--	--	--	660
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920	9/20/2021	--	0.99 U	--	--	--	--	--	527
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20210920-D	9/20/2021	--	0.98 U	--	--	--	--	--	506
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20211214	12/14/2021	--	1 U	--	--	--	--	--	431
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220321	3/21/2022	--	1 U	--	--	--	--	--	387
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220614	6/14/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20220916	9/16/2022	--	1 UJ	--	--	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230320	3/20/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230605	6/5/2023	--	0.82 U	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20230921	9/21/2023	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240103	1/3/2024	0.362 U	1.19 U	1.38 U	0.386 U	1.14 U	1.09 U	0.328 U	--
WGNA-SW/SD-42	Neshaminy	WGNA-SW-42-20240319	3/19/2024	0.393 U	1.29 U	1.5 U	0.418 U	1.24 U	1.18 U	0.355 U	335
WGNA-SW/SD-43	Pennypack	SW-43-022515	2/25/2015	--	--	--	--	--	--	--	1276
WGNA-SW/SD-43	Pennypack	SW-43-042516	4/25/2016	--	--	--	--	--	--	--	1037
WGNA-SW/SD-43	Pennypack	SW-43-081017	8/11/2017	--	17 U	--	--	--	--	--	1397
WGNA-SW/SD-43A	Pennypack	SW-43A-042516	4/25/2016	--	--	--	--	--	--	--	1330
WGNA-SW/SD-43A	Pennypack	SW-43A-080717	8/7/2017	--	15 U	--	--	--	--	--	139
WGNA-SW/SD-43A	Pennypack	SW-43A-081117	8/11/2017	--	17 U	--	--	--	--	--	1430
WGNA-SW/SD-43B	Pennypack	SW-43B-080717	8/7/2017	--	15 U	--	--	--	--	--	217
WGNA-SW/SD-44	Pennypack	SW-44-022515	2/25/2015	--	--	--	--	--	--	--	817
WGNA-SW/SD-44	Pennypack	SW-44-042516	4/25/2016	--	--	--	--	--	--	--	760
WGNA-SW/SD-44	Pennypack	SW-44-042516-D	4/25/2016	--	--	--	--	--	--	--	659
WGNA-SW/SD-44	Pennypack	SW-44-081017	8/11/2017	--	16 U	--	--	--	--	--	1123
WGNA-SW/SD-45	Pennypack	SW-45-042916	4/29/2016	--	--	--	--	--	--	--	556
WGNA-SW/SD-45	Pennypack	SW-45-080717	8/7/2017	--	15 U	--	--	--	--	--	402
WGNA-SW/SD-45	Pennypack	SW-45-081117	8/11/2017	--	17 U	--	--	--	--	--	1132
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	1213
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20190725-D	7/25/2019	--	1.64 U	--	--	--	--	--	1604
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20191022	10/22/2019	--	0.83 U	--	--	--	--	--	535
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200129	1/29/2020	--	0.81 U	--	--	--	--	--	1118
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200504	5/4/2020	--	0.89 U	--	--	--	--	--	1646
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20200915	9/15/2020	--	0.89 U	--	--	--	--	--	536
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210111	1/11/2021	--	0.912 U	--	--	--	--	--	670
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210315	3/15/2021	--	0.847 U	--	--	--	--	--	556
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210628	6/28/2021	--	0.862 U	--	--	--	--	--	339
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20210920	9/20/2021	--	2.26 U	--	--	--	--	--	464
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20211214	12/14/2021	--	2.14 U	--	--	--	--	--	353
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220321	3/21/2022	--	2.14 U	--	--	--	--	--	415
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220614	6/14/2022	--	2.19 U	--	--	--	--	--	390
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20220914	9/14/2022	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205	12/5/2022	--	2.23 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20221205-D	12/5/2022	--	2.32 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230320	3/20/2023	--	2.39 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230605	6/5/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20230919	9/19/2023	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240104	1/4/2024	0.365 U	1.2 U	1.39 U	0.389 U	1.15 U	1.1 U	0.33 U	--
WGNA-SW/SD-45	Pennypack	WGNA-SW-45-20240318	3/18/2024	0.388 U	1.28 U	1.48 U	0.413 U	1.22 U	1.17 U	0.351 U	674
WGNA-SW/SD-46	Pennypack	SW-46-042916	4/29/2016	--	--	--	--	--	--	--	1026
WGNA-SW/SD-46	Pennypack	SW-46-081117	8/11/2017	--	17 U	--	--	--	--	--	686
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	1040
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20191022	10/22/2019	--	0.94 U	--	--	--	--	--	328

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200129	1/29/2020	--	0.81 U	--	--	--	--	--	915
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20200504	5/4/2020	--	0.86 U	--	--	--	--	--	1023
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111	1/11/2021	--	1 U	--	--	--	--	--	512
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210111-D	1/11/2021	--	0.847 U	--	--	--	--	--	489
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210315	3/15/2021	--	0.98 U	--	--	--	--	--	679
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210628	6/28/2021	--	0.859 U	--	--	--	--	--	358
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920	9/20/2021	--	2.19 U	--	--	--	--	--	262
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20210920-D	9/20/2021	--	2.22 U	--	--	--	--	--	275
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20211214	12/14/2021	--	2.16 U	--	--	--	--	--	268
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220321	3/21/2022	--	2.14 U	--	--	--	--	--	462
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220614	6/14/2022	--	2.23 U	--	--	--	--	--	443
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20220914	9/14/2022	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20221205	12/5/2022	--	2.51 U	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230320	3/20/2023	--	2.52 U	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230605	6/5/2023	--	2.34 U	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20230919	9/19/2023	--	2.5 U	--	--	--	--	--	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240104	1/4/2024	0.385 U	1.27 U	1.47 U	0.41 U	1.21 U	1.16 U	0.348 U	--
WGNA-SW/SD-46	Pennypack	WGNA-SW-46-20240318	3/18/2024	0.428 U	1.41 U	1.63 U	0.456 U	1.35 U	1.29 U	0.387 U	666
WGNA-SW/SD-47	Pennypack	SW-47-042916	4/29/2016	--	--	--	--	--	--	--	272
WGNA-SW/SD-47	Pennypack	SW-47-081117	8/11/2017	--	17 U	--	--	--	--	--	108
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210111	1/11/2021	--	0.847 U	--	--	--	--	--	88.3
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210315	3/15/2021	--	0.893 U	--	--	--	--	--	85.3
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210628	6/28/2021	--	0.874 U	--	--	--	--	--	50
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20210920	9/20/2021	--	2.24 U	--	--	--	--	--	61.7
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20211214	12/14/2021	--	2.26 U	--	--	--	--	--	31.3
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220321	3/21/2022	--	2.15 U	--	--	--	--	--	68.9
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220614	6/14/2022	--	2.16 U	--	--	--	--	--	66.3
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20220914	9/14/2022	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20221205	12/5/2022	--	2.58 U	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230320	3/20/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230605	6/5/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20230919	9/19/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240104	1/4/2024	0.354 U	1.17 U	1.35 U	0.377 U	1.12 U	1.07 U	0.32 U	--
WGNA-SW/SD-47	Pennypack	WGNA-SW-47-20240318	3/18/2024	0.385 U	1.27 U	1.47 U	0.41 U	1.21 U	1.16 U	0.348 U	98.8
WGNA-SW/SD-48	Pennypack	SW-48-042916	4/29/2016	--	--	--	--	--	--	--	8.93
WGNA-SW/SD-48	Pennypack	SW-48-081117	8/11/2017	--	17 U	--	--	--	--	--	20.3
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	16.5
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20191022	10/22/2019	--	0.86 U	--	--	--	--	--	11.1
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200129	1/29/2020	--	0.81 U	--	--	--	--	--	11.1
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200504	5/4/2020	--	0.91 U	--	--	--	--	--	11.2
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20200915	9/15/2020	--	0.96 U	--	--	--	--	--	9.4
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210111	1/11/2021	--	0.933 U	--	--	--	--	--	8.32
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210315	3/15/2021	--	0.862 U	--	--	--	--	--	8.32
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210628	6/28/2021	--	0.871 U	--	--	--	--	--	11.6
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20210920	9/20/2021	--	2.25 U	--	--	--	--	--	12

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20211214	12/14/2021	--	2.18 U	--	--	--	--	--	9.87
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220321	3/21/2022	--	2.17 U	--	--	--	--	--	9.69
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220614	6/14/2022	--	2.17 U	--	--	--	--	--	12.2
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20220914	9/14/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20221205	12/5/2022	--	2.34 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320	3/20/2023	--	2.23 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230320-D	3/20/2023	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230605	6/5/2023	--	2.3 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20230919	9/19/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104	1/4/2024	0.38 U	1.25 U	1.45 U	0.405 U	1.2 U	1.15 U	0.344 U	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240104-D	1/4/2024	0.369 U	1.21 U	1.41 U	0.393 U	1.16 U	1.11 U	0.333 U	--
WGNA-SW/SD-48	Pennypack	WGNA-SW-48-20240318	3/18/2024	0.394 U	1.3 U	1.5 U	0.42 U	1.24 U	1.19 U	0.356 U	12.5
WGNA-SW/SD-49	Pennypack	SW-49-042916	4/29/2016	--	--	--	--	--	--	--	2793
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200129	1/29/2020	--	0.85 U	--	--	--	--	--	4635
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20200504	5/4/2020	--	0.86 U	--	--	--	--	--	4103
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210111	1/11/2021	--	0.887 U	--	--	--	--	--	3475
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20210315	3/15/2021	--	0.893 U	--	--	--	--	--	4525
WGNA-SW/SD-49	Pennypack	WGNA-SW-49-20240318	3/18/2024	0.386 U	1.27 U	1.47 U	0.411 U	1.22 U	1.16 U	0.349 U	2187
WGNA-SW/SD-51	Neshaminy	SW-51-042916	4/29/2016	--	--	--	--	--	--	--	2427
WGNA-SW/SD-51	Neshaminy	SW-51-080717	8/7/2017	--	15 U	--	--	--	--	--	337
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220322	3/22/2022	--	2.1 U	--	--	--	--	--	2225
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220615	6/15/2022	--	2.56 U	--	--	--	--	--	#####
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20220915	9/15/2022	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-51	Neshaminy	WGNA-SW-51-20221206	12/6/2022	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-52	Neshaminy	SW-52-042916	4/29/2016	--	--	--	--	--	--	--	59.5
WGNA-SW/SD-52	Neshaminy	SW-52-080717	8/7/2017	--	15 U	--	--	--	--	--	141
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20190725	7/25/2019	--	1.72 U	--	--	--	--	--	47.8
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200129	1/29/2020	--	0.82 U	--	--	--	--	--	143
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20200504	5/4/2020	--	0.94 U	--	--	--	--	--	66.9
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210112	1/12/2021	--	0.98 U	--	--	--	--	--	49
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210316	3/16/2021	--	0.909 U	--	--	--	--	--	39.1
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20210921	9/21/2021	--	2.1 U	--	--	--	--	--	71.5
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20211215	12/15/2021	--	2.34 U	--	--	--	--	--	57.8
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20220322	3/22/2022	--	2.37 U	--	--	--	--	--	41.3
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20230321	3/21/2023	--	2.22 U	--	--	--	--	--	--
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320	3/20/2024	0.405 U	1.33 U	1.55 U	0.432 U	1.28 U	1.22 U	0.367 U	45.8
WGNA-SW/SD-52	Neshaminy	WGNA-SW-52-20240320-D	3/20/2024	0.368 U	1.21 U	1.4 U	0.392 U	1.16 U	1.11 U	0.333 U	46.1
WGNA-SW/SD-53	Pennypack	SW-53-080717	8/7/2017	--	15 U	--	--	--	--	--	5.42
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200129	1/29/2020	--	0.88 U	--	--	--	--	--	2342
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20200504	5/4/2020	--	0.89 U	--	--	--	--	--	1600
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210111	1/11/2021	--	1.06 U	--	--	--	--	--	1750
WGNA-SW/SD-53	Pennypack	WGNA-SW-53-20210315	3/15/2021	--	0.943 U	--	--	--	--	--	3289
WGNA-SW/SD-54	Pennypack	SW-54-081117	8/11/2017	--	17 U	--	--	--	--	--	3663
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200129	1/29/2020	--	0.79 U	--	--	--	--	--	4113
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20200504	5/4/2020	--	0.88 U	--	--	--	--	--	4336

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Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210111	1/11/2021	--	0.912 U	--	--	--	--	--	4275
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20210315	3/15/2021	--	0.909 U	--	--	--	--	--	4182
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20220321	3/21/2022	--	2.13 U	--	--	--	--	--	5567
WGNA-SW/SD-54	Pennypack	WGNA-SW-54-20240318	3/18/2024	0.371 U	1.22 U	1.42 U	0.395 U	1.17 U	1.12 U	0.335 U	2409
WGNA-SW/SD-55	Pennypack	SW-55-081117	8/11/2017	--	17 U	--	--	--	--	--	103
WGNA-SW/SD-56	Pennypack	SW-56-081117	8/11/2017	--	16 U	--	--	--	--	--	91.5
WGNA-SW/SD-56	Pennypack	SW-56-081117-D	8/11/2017	--	16 U	--	--	--	--	--	92.9
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	111
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200129	1/29/2020	--	0.82 U	--	--	--	--	--	108
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200504	5/4/2020	--	0.91 U	--	--	--	--	--	127
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915	9/15/2020	--	0.93 U	--	--	--	--	--	30.5
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20200915-D	9/15/2020	--	0.89 U	--	--	--	--	--	33.4
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210111	1/11/2021	--	0.839 U	--	--	--	--	--	68.3
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315	3/15/2021	--	0.847 U	--	--	--	--	--	77
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210315-D	3/15/2021	--	0.847 U	--	--	--	--	--	67.5
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210628	6/28/2021	--	0.868 U	--	--	--	--	--	53
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20210920	9/20/2021	--	2.21 U	--	--	--	--	--	52.5
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214	12/14/2021	--	2.16 U	--	--	--	--	--	36.2
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20211214-D	12/14/2021	--	2.16 U	--	--	--	--	--	37.3
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321	3/21/2022	--	2.19 U	--	--	--	--	--	54.7
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220321-D	3/21/2022	--	2.16 U	--	--	--	--	--	57.2
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614	6/14/2022	--	2.21 U	--	--	--	--	--	63.9
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220614-D	6/14/2022	--	2.14 U	--	--	--	--	--	64.6
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220914	9/14/2022	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20220915	9/15/2022	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20221205	12/5/2022	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230320	3/20/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230605	6/5/2023	--	2.39 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20230919	9/19/2023	--	2.42 U	--	--	--	--	--	--
WGNA-SW/SD-56	Pennypack	WGNA-SW-56-20240104	1/4/2024	0.365 U	1.2 U	1.39 U	0.389 U	1.15 U	1.1 U	0.33 U	--
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318	3/18/2024	0.405 U	1.33 U	1.55 U	0.432 U	1.28 U	1.22 U	0.367 U	72.3
WGNA-SW/SD-56	Neshaminy	WGNA-SW-56-20240318-D	3/18/2024	0.425 U	1.4 U	1.62 U	0.453 U	1.34 U	1.28 U	0.385 U	69.2
WGNA-SW/SD-57	Neshaminy	SW-57-080717	8/7/2017	--	15 U	--	--	--	--	--	411
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20190726	7/26/2019	--	1.79 U	--	--	--	--	--	115
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200130	1/30/2020	--	0.81 U	--	--	--	--	--	141
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	91.6
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210111	1/11/2021	--	1.2 U	--	--	--	--	--	225
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210315	3/15/2021	--	1.1 U	--	--	--	--	--	162
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20210920	9/20/2021	--	1.1 U	--	--	--	--	--	300
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220321	3/21/2022	--	1 U	--	--	--	--	--	199
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614	6/14/2022	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20220614-D	6/14/2022	--	0.98 U	--	--	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20221205	12/5/2022	--	1 UJ	--	--	--	--	--	--
WGNA-SW/SD-57	Neshaminy	WGNA-SW-57-20230320	3/20/2023	--	1 U	--	--	--	--	--	--
WGNA-SW/SD-61	Pennypack	SW-61-081117	8/11/2017	--	16 U	--	--	--	--	--	65.7

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Former NASJRB Willow Grove
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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-62	Pennypack	SW-62-081117	8/11/2017	--	16 U	--	--	--	--	--	38.6
WGNA-SW/SD-62	Pennypack	SW-62-081117-D	8/11/2017	--	17 UJ	--	--	--	--	--	25.8
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	83.3
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20190726	7/26/2019	--	1.85 U	--	--	--	--	--	67.3
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20191025	10/25/2019	--	0.85 U	--	--	--	--	--	45.2
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200129	1/29/2020	--	0.82 U	--	--	--	--	--	38.1
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200504	5/4/2020	--	0.82 U	--	--	--	--	--	61.5
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20200915	9/15/2020	--	0.91 U	--	--	--	--	--	58.7
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210112	1/12/2021	--	0.82 U	--	--	--	--	--	59
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210316	3/16/2021	--	0.943 U	--	--	--	--	--	51.7
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210629	6/29/2021	--	0.877 U	--	--	--	--	--	99.3
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20210921	9/21/2021	--	2.22 U	--	--	--	--	--	107
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20211215	12/15/2021	--	2.27 U	--	--	--	--	--	65.2
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220322	3/22/2022	--	2.13 U	--	--	--	--	--	51.5
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615	6/15/2022	--	2.13 U	--	--	--	--	--	74.8
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220615-D	6/15/2022	--	2.16 U	--	--	--	--	--	77.3
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20220915	9/15/2022	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20221206	12/6/2022	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230321	3/21/2023	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230606	6/6/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20230920	9/20/2023	--	2.12 U	--	--	--	--	--	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103	1/3/2024	0.351 UJ	1.16 UJ	1.34 UJ	0.374 UJ	1.11 UJ	1.06 UJ	0.317 UJ	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240103-D	1/3/2024	0.357 UJ	1.18 UJ	1.36 UJ	0.381 UJ	1.13 UJ	1.08 UJ	0.323 UJ	--
WGNA-SW/SD-63	Neshaminy	WGNA-SW-63-20240320	3/20/2024	0.381 U	1.25 U	1.46 U	0.406 U	1.2 U	1.15 U	0.345 U	49.7
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20190725	7/25/2019	--	1.67 U	--	--	--	--	--	21.2
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20191022	10/22/2019	--	0.83 UJ	--	--	--	--	--	14.1
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200129	1/29/2020	--	0.81 U	--	--	--	--	--	18.7
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200504	5/4/2020	--	0.82 U	--	--	--	--	--	27.3
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20200915	9/15/2020	--	0.82 U	--	--	--	--	--	12.5
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112	1/12/2021	--	0.862 U	--	--	--	--	--	19.2
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210112-D	1/12/2021	--	0.847 U	--	--	--	--	--	17.8
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316	3/16/2021	--	0.909 U	--	--	--	--	--	14.8
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210316-D	3/16/2021	--	0.909 U	--	--	--	--	--	16.1
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210629	6/29/2021	--	0.89 U	--	--	--	--	--	27.6
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20210921	9/21/2021	--	2.12 U	--	--	--	--	--	27.7
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20211215	12/15/2021	--	2.24 U	--	--	--	--	--	14.6
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220322	3/22/2022	--	2.05 U	--	--	--	--	--	19.9
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220615	6/15/2022	--	2.18 U	--	--	--	--	--	22.5
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20220915	9/15/2022	--	2.04 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206	12/6/2022	--	2.3 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20221206-D	12/6/2022	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321	3/21/2023	--	2.04 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230321-D	3/21/2023	--	2.15 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230606	6/6/2023	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20230920	9/20/2023	--	2.15 U	--	--	--	--	--	--

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LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-64	Neshaminy	WGNA-SW-64-20240320	3/20/2024	0.393 U	1.29 U	1.5 U	0.418 U	1.24 U	1.18 U	0.355 U	21.1
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729	7/29/2019	--	1.64 U	--	--	--	--	--	113
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20190729-D	7/29/2019	--	1.64 U	--	--	--	--	--	62.2
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	86.8
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917	9/17/2020	--	0.88 U	--	--	--	--	--	64.1
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20200917-D	9/17/2020	--	0.86 U	--	--	--	--	--	59
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210630	6/30/2021	--	0.868 U	--	--	--	--	--	67.3
WGNA-SW/SD-65	Neshaminy	WGNA-SW-65-20210922	9/22/2021	--	2.4 U	--	--	--	--	--	82.6
WGNA-SW/SD-66	Pennypack	WGNA-SW-66-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	241
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20190729	7/29/2019	--	1.67 U	--	--	--	--	--	99.3
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	102
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20200917	9/17/2020	--	0.86 U	--	--	--	--	--	37.3
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210630	6/30/2021	--	1.02 U	--	--	--	--	--	86
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20210922	9/22/2021	--	2.19 U	--	--	--	--	--	94.4
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621	6/21/2022	--	2.1 U	--	--	--	--	--	67.8
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20220621-D	6/21/2022	--	2.15 U	--	--	--	--	--	74.4
WGNA-SW/SD-67	Neshaminy	WGNA-SW-67-20230607	6/7/2023	--	2.27 U	--	--	--	--	--	--
WGNA-SW/SD-68	Neshaminy	WGNA-SW-68-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	705
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	39.3
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200504	5/4/2020	--	0.86 U	--	--	--	--	--	40.2
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20200915	9/15/2020	--	0.83 U	--	--	--	--	--	26.6
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210628	6/28/2021	--	0.845 U	--	--	--	--	--	37
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20210920	9/20/2021	--	2.22 U	--	--	--	--	--	42.3
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220614	6/14/2022	--	2.19 U	--	--	--	--	--	44.2
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20220914	9/14/2022	--	2.12 U	--	--	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230605	6/5/2023	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919	9/19/2023	--	2.42 U	--	--	--	--	--	--
WGNA-SW/SD-69	Pennypack	WGNA-SW-69-20230919-D	9/19/2023	--	2.25 U	--	--	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	19
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200504	5/4/2020	--	0.93 U	--	--	--	--	--	20.3
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20200915	9/15/2020	--	0.83 U	--	--	--	--	--	11.7
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628	6/28/2021	--	0.85 U	--	--	--	--	--	18.2
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210628-D	6/28/2021	--	0.856 U	--	--	--	--	--	18.3
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20210920	9/20/2021	--	2.24 U	--	--	--	--	--	24.1
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220614	6/14/2022	--	2.2 U	--	--	--	--	--	18
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914	9/14/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20220914-D	9/14/2022	--	2.12 U	--	--	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230605	6/5/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-70	Pennypack	WGNA-SW-70-20230919	9/19/2023	--	2.3 U	--	--	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20190729	7/29/2019	--	1.64 U	--	--	--	--	--	116
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200506	5/6/2020	--	0.93 U	--	--	--	--	--	69
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20200917	9/17/2020	--	1 U	--	--	--	--	--	42.9
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210630	6/30/2021	--	0.893 U	--	--	--	--	--	63.1
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20210922	9/22/2021	--	2.19 UJ	--	--	--	--	--	70.8
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220621	6/21/2022	--	2.06 U	--	--	--	--	--	65.1

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20220916	9/16/2022	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607	6/7/2023	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230607-D	6/7/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-71	Neshaminy	WGNA-SW-71-20230922	9/22/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130	1/30/2020	--	0.83 U	--	--	--	--	--	101
WGNA-SW/SD-72	Neshaminy	WGNA-SW-72-20200130-D	1/30/2020	--	0.81 U	--	--	--	--	--	97
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200130	1/30/2020	--	0.83 U	--	--	--	--	--	104
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505	5/5/2020	--	0.82 U	--	--	--	--	--	92.4
WGNA-SW/SD-73	Neshaminy	WGNA-SW-73-20200505-D	5/5/2020	--	0.82 U	--	--	--	--	--	102
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20190726	7/26/2019	--	1.69 U	--	--	--	--	--	24.8
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200505	5/5/2020	--	0.89 U	--	--	--	--	--	19.8
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20200916	9/16/2020	--	0.93 U	--	--	--	--	--	18.9
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210629	6/29/2021	--	0.903 U	--	--	--	--	--	26.8
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20210921	9/21/2021	--	2.25 U	--	--	--	--	--	25.2
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220615	6/15/2022	--	2.18 U	--	--	--	--	--	24.4
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915	9/15/2022	--	2.05 U	--	--	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20220915-D	9/15/2022	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-LNCREF1	Neshaminy	WGNA-SW-LNCREF1-20230606	6/6/2023	--	2.45 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20190729	7/29/2019	--	1.64 U	--	--	--	--	--	24.8
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	18.3
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20200917	9/17/2020	--	0.88 UJ	--	--	--	--	--	16.9
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210630	6/30/2021	--	0.874 U	--	--	--	--	--	17.3
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20210922	9/22/2021	--	2.13 U	--	--	--	--	--	14.6
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220621	6/21/2022	--	2.09 U	--	--	--	--	--	18.1
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20220916	9/16/2022	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230607	6/7/2023	--	2.26 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF1	Neshaminy	WGNA-SW-NCREF1-20230922	9/22/2023	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20190729	7/29/2019	--	1.64 U	--	--	--	--	--	15.9
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	7.94
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20200917	9/17/2020	--	0.88 U	--	--	--	--	--	8.61
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630	6/30/2021	--	0.883 U	--	--	--	--	--	9.59
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210630-D	6/30/2021	--	0.883 U	--	--	--	--	--	12.6
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20210922	9/22/2021	--	2.26 U	--	--	--	--	--	8.57
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220621	6/21/2022	--	2.1 U	--	--	--	--	--	8.66
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20220916	9/16/2022	--	2.1 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230607	6/7/2023	--	2.37 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF2	Neshaminy	WGNA-SW-NCREF2-20230922	9/22/2023	--	2.17 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20190729	7/29/2019	--	1.64 U	--	--	--	--	--	26.3
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	15.4
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20200917	9/17/2020	--	0.91 U	--	--	--	--	--	16.4
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210630	6/30/2021	--	0.874 U	--	--	--	--	--	17.5
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922	9/22/2021	--	2.19 U	--	--	--	--	--	23.7
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20210922-D	9/22/2021	--	2.13 U	--	--	--	--	--	23.5
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220621	6/21/2022	--	2.06 U	--	--	--	--	--	16.7
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916	9/16/2022	--	2.07 U	--	--	--	--	--	--

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUOROOCTANESULFONAMIDE (N-MEFOSA)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATANOIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPROPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBUTANOIC ACID(PFMBA)	PERFLUORODODECANESULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20220916-D	9/16/2022	--	2.08 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230607	6/7/2023	--	2.18 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922	9/22/2023	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF3	Neshaminy	WGNA-SW-NCREF3-20230922-D	9/22/2023	--	2.16 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200130	1/30/2020	--	0.81 U	--	--	--	--	--	26.9
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506	5/6/2020	--	0.82 U	--	--	--	--	--	38.4
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200506-D	5/6/2020	--	0.82 U	--	--	--	--	--	31.1
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20200917	9/17/2020	--	1 U	--	--	--	--	--	28.2
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-NGSHAMINY-REF4-20210111	1/11/2021	--	1 U	--	--	--	--	--	27.4
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-Neshaminy-REF4-20210315	3/15/2021	--	1 U	--	--	--	--	--	21.3
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210630	6/30/2021	--	0.88 U	--	--	--	--	--	32.3
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20210922	9/22/2021	--	2.19 U	--	--	--	--	--	5.5
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20211214	12/14/2021	--	0.98 U	--	--	--	--	--	25.2
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-REF4-20220321	3/21/2022	--	1.1 U	--	--	--	--	--	24.3
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20220916	9/16/2022	--	2.19 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20230922	9/22/2023	--	2.33 U	--	--	--	--	--	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240104	1/4/2024	0.363 U	1.2 U	1.39 U	0.387 U	1.15 U	1.09 U	0.328 U	--
WGNA-SW/SD-NCREF4	Neshaminy	WGNA-SW-NCREF4-20240318	3/18/2024	0.406 U	1.34 U	1.55 U	0.433 U	1.28 U	1.22 U	0.367 U	25.6
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	16.9
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200504	5/4/2020	--	0.82 U	--	--	--	--	--	19.4
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20200915	9/15/2020	--	0.86 U	--	--	--	--	--	12.1
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210629	6/29/2021	--	0.853 U	--	--	--	--	--	32.5
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20210921	9/21/2021	--	2.19 U	--	--	--	--	--	21
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220615	6/15/2022	--	2.15 U	--	--	--	--	--	22.5
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20220915	9/15/2022	--	2.05 U	--	--	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230606	6/6/2023	--	2.35 U	--	--	--	--	--	--
WGNA-SW/SD-PCREF1	Neshaminy	WGNA-SW-PCREF1-20230920	9/20/2023	--	2.14 U	--	--	--	--	--	--
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220615	6/15/2022	--	2.26 U	--	--	--	--	--	27.4
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20220915	9/15/2022	--	2.44 U	--	--	--	--	--	--
WGNA-SW/SD-PCREF2	Neshaminy	WGNA-SW-PCREF2-20230606	6/6/2023	--	2.31 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20190725	7/25/2019	--	1.64 U	--	--	--	--	--	19.3
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200504	5/4/2020	--	0.91 U	--	--	--	--	--	25.6
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20200915	9/15/2020	--	0.88 U	--	--	--	--	--	20.5
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210628	6/28/2021	--	0.856 U	--	--	--	--	--	22.8
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20210920	9/20/2021	--	2.22 U	--	--	--	--	--	28.6
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220614	6/14/2022	--	2.11 U	--	--	--	--	--	24.7
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20220914	9/14/2022	--	2.06 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605	6/5/2023	--	2.24 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230605-D	6/5/2023	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF1	Pennypack	WGNA-SW-PPREF1-20230919	9/19/2023	--	2.22 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20190725	7/25/2019	--	1.69 U	--	--	--	--	--	24.2
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200504	5/4/2020	--	0.86 U	--	--	--	--	--	24
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20200915	9/15/2020	--	0.93 U	--	--	--	--	--	18
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210628	6/28/2021	--	0.874 U	--	--	--	--	--	21.8
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920	9/20/2021	--	2.42 U	--	--	--	--	--	23.9

Table D1: Historical Surface Water Analytical Data
Former NASJRB Willow Grove
Horsham Township, Pennsylvania

LOCATION ID	WATERSHED	SAMPLE ID	SAMPLE DATE	N-METHYL PERFLUORO OCTANESUL FONAMIDE (N-MEFOSA)	N-METHYLPER FLUOROOCT ANE SULFONAMID OACETATE (NMFOSA)	NONAFLUOR O-3,6-DIOHEPATAN OIC ACID (NFDHA)	PERFLUORO (2-ETHOXYETH ANE)SULFONIC ACID (PFEESA)	PERFLUORO-4-METHOXYPR OPANOIC ACID(PFMPA)	PERFLUORO-4-METHOXYBU TANOIC ACID(PFMBA)	PERFLUORO DODECANES ULFONIC ACID(PFDOS)	PFOA/PFOS
Human Health PSLs (ng/L) [1,2]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Organism) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
Ecological (Aquatic Wildlife) PSLs (ng/L) [3,4,5]				NC	NC	NC	NC	NC	NC	NC	NC
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20210920-D	9/20/2021	--	2.51 U	--	--	--	--	--	26.8
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PREF2-20220614	6/14/2022	--	2.22 U	--	--	--	--	--	33.5
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20220914	9/14/2022	--	2.13 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230605	6/5/2023	--	2.22 U	--	--	--	--	--	--
WGNA-SW/SD-PPREF2	Pennypack	WGNA-SW-PPREF2-20230919	9/19/2023	--	2.5 U	--	--	--	--	--	--

Notes:
Result is above PSL.
Result is bolded if above Human Health PSL [(1)].
Result is italicized if above Ecological Invertebrate PSL [(2,3,4)].
Result is underlined if above Ecological Wildlife PSL [(2)].
See end notes

(1): Human health surface water PALs were derived using the EPA RSL Calculator (November, 2023) based on a target cancer risk level of 1E-6 (applicable to PFOA only) and a target hazard quotient of 0.1. Human health screening levels were not developed for other PFAS due to lack of available toxicity values for these analytes.

(2): Ecological screening levels for PFAS have not been developed by EPA. Therefore, ecological PALs for aquatic invertebrate and wildlife values were identified based on a review of the literature. All ecological wildlife PALs are based on Grippo, et. al., 2021. The aquatic organism PALs for PFOA, PFOS, PFBS, PFDA, PFHxA, and PFNA are based on Grippo, et. al., 2021, and PFDoA, PFHpA, and PFUNA are based on SERDP ER18-1653 (Divine et al., 2020). Divine et al. (2020) wildlife values are NOAEL-based. See text.

---: Not analyzed
BJ: The analyte was detected above one-half the reporting limit in an associated blank. The reported value is an estimated concentration
BU: The analyte was detected above one-half the reporting limit in an associated blank. Not detected
D: Field duplicate
J-: The reported value is a low estimated concentration
J: The reported value is an estimated concentration
J+:The reported value is a high estimated concentration
NC: No criteria established
NM: Normal sample
ng/L: Nanogram per liter
PAL: Project action level
R: The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
RSL: Regional screening level
U: Not detected
UJ: The analyte was not detected; and the reporting limit is approximate
X: The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze sample and meet published method and project quality control criteria. The presence or absence of analyte cannot be substantiated by data provided. Acceptance or rejection of data should be decided by project team, but exclusion of the data is recommended.

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APPENDIX E
EPA NOVEMBER 2023 RSL CALCULATOR – BACKUP CALCULATIONS

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Site-specific Recreator Sediment Inputs

Variable	Recreator Soil Default Value	Site-Specific Value
A (PEF Dispersion Constant)	16.2302	16.2302
A (VF Dispersion Constant)	11.911	11.911
A (VF Dispersion Constant - mass limit)	11.911	11.911
B (PEF Dispersion Constant)	18.7762	18.7762
B (VF Dispersion Constant)	18.4385	18.4385
B (VF Dispersion Constant - mass limit)	18.4385	18.4385
City (PEF Climate Zone) Selection	Default	Default
City (VF Climate Zone) Selection	Default	Default
C (PEF Dispersion Constant)	216.108	216.108
C (VF Dispersion Constant)	209.7845	209.7845
C (VF Dispersion Constant - mass limit)	209.7845	209.7845
foc (fraction organic carbon in soil) g/g	0.006	0.006
F(x) (function dependent on U_m/U_t) unitless	0.194	0.194
n (total soil porosity) L_{pore}/L_{soil}	0.43396	0.43396
p_h (dry soil bulk density) g/cm ^{3}	1.5	1.5
p_h (dry soil bulk density - mass limit) g/cm ^{3}	1.5	1.5
PEF (particulate emission factor) m ^{3}/kg	1359344438	1359344438
p_s (soil particle density) g/cm ^{3}	2.65	2.65
Q/C_{wind} (g/m^2-s per kg/m^3)	93.77	93.77
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18	68.18
Q/C_{vol} (g/m^2-s per kg/m^3 - mass limit)	68.18	68.18
A_s (PEF acres)	0.5	0.5
A_s (VF acres)	0.5	0.5
A_s (VF mass-limit acres)	0.5	0.5
AF_{0-2} (skin adherence factor) mg/cm ^{2}	.	0.2
AF_{2-6} (skin adherence factor) mg/cm ^{2}	.	0.2
AF_{6-16} (skin adherence factor) mg/cm ^{2}	.	0.07
AF_{16-26} (skin adherence factor) mg/cm ^{2}	.	0.07
AF_{rec-a} (skin adherence factor - adult) mg/cm ^{2}	.	0.07

Output generated 26MAR2024:15:03:59

Site-specific Recreator Sediment Inputs

Variable	Recreator Soil Default Value	Site-Specific Value
AF_{rec-c} (skin adherence factor - child) mg/cm ^{2}	.	0.2
AT_{rec} (averaging time)	365	365
BW_{0-2} (body weight) kg	15	15
BW_{2-6} (body weight) kg	15	15
BW_{6-16} (body weight) kg	80	80
BW_{16-26} (body weight) kg	80	80
BW_{rec-a} (body weight - adult) kg	80	80
BW_{rec-c} (body weight - child) kg	15	15
$DFS_{rec-adj}$ (age-adjusted soil dermal factor) mg/kg	.	15360.8
$DFSM_{rec-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	.	63627.2
ED_{rec} (exposure duration - recreator) years	26	26
ED_{0-2} (exposure duration) year	2	2
ED_{2-6} (exposure duration) year	4	4
ED_{6-16} (exposure duration) year	10	10
ED_{16-26} (exposure duration) year	10	10
ED_{rec-c} (exposure duration - child) years	6	6
EF_{rec} (exposure frequency) days/year	.	52
EF_{0-2} (exposure frequency) days/year	.	52
EF_{2-6} (exposure frequency) days/year	.	52
EF_{6-16} (exposure frequency) days/year	.	52
EF_{16-26} (exposure frequency) days/year	.	52
EF_{rec-a} (exposure frequency - adult) days/year	.	52
EF_{rec-c} (exposure frequency - child) days/year	.	52
ET_{rec} (exposure time - recreator) hours/day	.	3
ET_{0-2} (exposure time) hours/day	.	3
ET_{2-6} (exposure time) hours/day	.	3
ET_{6-16} (exposure time) hours/day	.	3
ET_{16-26} (exposure time) hours/day	.	3
ET_{rec-a} (adult exposure time) hours/day	.	3

Output generated 26MAR2024:15:03:59

Site-specific Recreator Sediment Inputs

Variable	Recreator Soil Default Value	Site-Specific Value
ET_{rec-c} (child exposure time) hours/day	.	3
THQ (target hazard quotient) unitless	0.1	0.1
$IFS_{rec-adj}$ (age-adjusted soil ingestion factor) mg/kg	.	5460
$IFSM_{rec-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	.	24786.667
IRS_{0-2} (soil intake rate) mg/day	.	200
IRS_{2-6} (soil intake rate) mg/day	.	200
IRS_{6-16} (soil intake rate) mg/day	.	100
IRS_{16-26} (soil intake rate) mg/day	.	100
IRS_{rec-a} (soil intake rate - adult) mg/day	.	100
IRS_{rec-c} (soil intake rate - child) mg/day	.	200
LT (lifetime - recreator) years	70	70
SA_{0-2} (skin surface area) cm^2/day	.	2373
SA_{2-6} (skin surface area) cm^2/day	.	2373
SA_{6-16} (skin surface area) cm^2/day	.	6032
SA_{16-26} (skin surface area) cm^2/day	.	6032
SA_{rec-a} (skin surface area - adult) cm^2/day	.	6032
SA_{rec-c} (skin surface area - child) cm^2/day	.	2373
TR (target risk) unitless	1.0E-06	1.0E-06
T_w (groundwater temperature) Celsius	25	25
$Theta_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396	0.28396
$Theta_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15	0.15
T (exposure interval) s	819936000	819936000
T (exposure interval) yr	26	26
U_m (mean annual wind speed) m/s	4.69	4.69
U_t (equivalent threshold value)	11.32	11.32
V (fraction of vegetative cover) unitless	0.5	0.5

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Sediment

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF_o (mg/kg-day)$^{-1}$	SF_o Ref	IUR (ug/m^3)$^{-1}$	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m^3)	RfC Ref
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	No	Yes	Organics	-		-		3.00E-06	D	-	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	No	No	Organics	-		-		3.00E-04	P	-	
Perfluorobutanoic acid (PFBA)	375-22-4	No	Yes	Organics	-		-		1.00E-03	I	-	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	No	No	Organics	-		-		2.00E-05	A	-	
Perfluorohexanoic acid (PFHxA)	307-24-4	No	No	Organics	-		-		5.00E-04	I	-	
Perfluorononanoic acid (PFNA)	375-95-1	No	No	Organics	-		-		3.00E-06	A	-	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	No	No	Organics	-		-		2.00E-06	A	-	
Perfluorooctanoic acid (PFOA)	335-67-1	No	No	Organics	7.00E-02	D	-		3.00E-06	A	-	

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Sediment

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K_{oc} \ (cm^3/g)	K_d \ (cm^3/g)	HLC (atm-m^3/mole)	Henry's Law Constant Used in Calcs (unitless)	H` and HLC Ref	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_c \ (K)	T_c \ Ref
1	-	1	1.92E+06	7.56E+05	4.07E+02	2.44E+00	2.50E-04	1.02E-02	EPA OW	402.15	EPA OW	-	
1	0.1	1	-	2.57E+05	6.17E+01	3.00E-01	-	-		471.15	3M	-	
1	-	1	2.57E+03	4.61E+03	7.59E+01	4.55E-01	1.19E-04	4.87E-03	PHYSPROP	394.95	3M	-	
1	0.1	1	-	2.43E+02	1.12E+02	-	-	-		511.65	3M	-	
1	0.1	1	-	2.50E+05	2.04E+01	-	2.35E-10	9.61E-09	CompTox	430.15	3M	-	
1	0.1	1	-	1.30E+03	2.46E+02	4.00E+00	-	-		491.15	3M	-	
1	0.1	1	-	6.80E+02	3.72E+02	7.42E+00	4.34E-07	1.77E-05	3M	522.15	3M	-	
1	0.1	1	-	9.50E+03	1.15E+02	1.50E+01	3.57E-06	1.46E-04	ATSDR Profile	462.15	3M	-	

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Sediment

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical Type	D_{ia} \ (cm^2/s)	D_{iw} \ (cm^2/s)	D_A \ (cm^2/s)	Particulate Emission Factor (m^3/kg)	Volatilization Factor Unlimited Reservoir (m^3/kg)	Volatilization Factor Mass Limit (m^3/kg)	Volatilization Factor Selected (m^3/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)
PFAS	2.50E-02	6.54E-06	5.38E-06	1.36E+09	4.97E+04	-	4.97E+04	-	-	-
PFAS	2.68E-02	7.10E-06	-	1.36E+09	-	-	-	-	-	-
PFAS	1.95E-02	4.65E-06	9.12E-06	1.36E+09	3.82E+04	-	3.82E+04	-	-	-
PFAS	2.33E-02	6.01E-06	-	1.36E+09	-	-	-	-	-	-
PFAS	2.58E-02	6.77E-06	-	1.36E+09	-	-	-	-	-	-
PFAS	2.13E-02	5.43E-06	-	1.36E+09	-	-	-	-	-	-
PFAS	2.08E-02	5.27E-06	-	1.36E+09	-	-	-	-	-	-
PFAS	2.26E-02	5.79E-06	-	1.36E+09	-	-	-	6.68E+01	2.38E+02	-

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Sediment

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Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=0.1 (mg/kg)	Dermal SL Child THQ=0.1 (mg/kg)	Inhalation SL Child THQ=0.1 (mg/kg)	Noncarcinogenic SL Child THI=0.1 (mg/kg)	Ingestion SL Adult THQ=0.1 (mg/kg)	Dermal SL Adult THQ=0.1 (mg/kg)	Inhalation SL Adult THQ=0.1 (mg/kg)	Noncarcinogenic SL Adult THI=0.1 (mg/kg)	Screening Level (mg/kg)
-	1.58E-01	-	-	1.58E-01	1.68E+00	-	-	1.68E+00	1.58E-01 nc
-	1.58E+01	6.66E+01	-	1.28E+01	1.68E+02	3.99E+02	-	1.18E+02	1.28E+01 nc
-	5.26E+01	-	-	5.26E+01	5.62E+02	-	-	5.62E+02	5.26E+01 nc
-	1.05E+00	4.44E+00	-	8.51E-01	1.12E+01	2.66E+01	-	7.90E+00	8.51E-01 nc
-	2.63E+01	1.11E+02	-	2.13E+01	2.81E+02	6.65E+02	-	1.97E+02	2.13E+01 nc
-	1.58E-01	6.66E-01	-	1.28E-01	1.68E+00	3.99E+00	-	1.18E+00	1.28E-01 nc
-	1.05E-01	4.44E-01	-	8.51E-02	1.12E+00	2.66E+00	-	7.90E-01	8.51E-02 nc
5.22E+01	1.58E-01	6.66E-01	-	1.28E-01	1.68E+00	3.99E+00	-	1.18E+00	1.28E-01 nc

Site-specific
Recreator Surface Water Inputs

Variable	Recreator Surface Water Default Value	Site-Specific Value
BW_{0-2} (body weight) kg	15	15
BW_{2-6} (body weight) kg	15	15
BW_{6-16} (body weight) kg	80	80
BW_{16-26} (body weight) kg	80	80
BW_{a} (body weight - adult) kg	80	80
BW_{rec-a} (body weight - adult) kg	80	80
$DFW_{rec-adj}$ (age-adjusted dermal factor) cm^2-event/kg	.	387868
$DFWM_{rec-adj}$ (mutagenic age-adjusted dermal factor) cm^2-event/kg	.	1217042.66
ED_{rec} (exposure duration - recreator) years	26	26
ED_{0-2} (exposure duration) years	2	2
ED_{2-6} (exposure duration) years	4	4
ED_{6-16} (exposure duration) years	10	10
ED_{16-26} (exposure duration) years	10	10
ED_{rec-a} (exposure duration - adult) years	20	20
EF_{rec-w} (exposure frequency) days/year	.	52
EF_{2-6} (exposure frequency) days/year	.	52
EF_{6-16} (exposure frequency) days/year	.	52
EF_{16-26} (exposure frequency) days/year	.	52
EF_{rec-a} (adult exposure frequency) days/year	.	52
ET_{0-2} (exposure time) hours/event	.	3
ET_{2-6} (exposure time) hours/event	.	3
ET_{6-16} (exposure time) hours/event	.	3
ET_{16-26} (exposure time) hours/event	.	3
ET_{rec-a} (adult exposure time) hours/event	.	3
EV_{0-2} (events) events/day	.	1
EV_{2-6} (events) events/day	.	1
EV_{6-16} (events) events/day	.	1
EV_{16-26} (events) events/day	.	1

Site-specific
Recreator Surface Water Inputs

Variable	Recreator Surface Water Default Value	Site-Specific Value
EV_{rec-a} (adult) events/day	.	1
THQ (target hazard quotient) unitless	0.1	0.1
$IFW_{rec-adj}$ (age-adjusted water intake rate) L/kg	.	5.07
$IFWM_{rec-adj}$ (mutagenic age-adjusted water intake rate) L/kg	.	20.54
IRW_{0-2} (water intake rate) L/hour	0.12	0.05
IRW_{2-6} (water intake rate) L/hour	0.12	0.05
IRW_{6-16} (water intake rate) L/hour	0.124	0.05
IRW_{16-26} (water intake rate) L/hour	0.0985	0.05
IRW_{rec} (water intake rate - adult) L/day	0.11	0.05
IRW_{rec-a} (water intake rate - adult) L/hr	0.11	0.05
LT (lifetime - recreator) years	70	70
SA_{0-2} (skin surface area) cm^2	6365	6365
SA_{2-6} (skin surface area) cm^2	6365	6365
SA_{6-16} (skin surface area) cm^2	19652	19652
SA_{16-26} (skin surface area) cm^2	19652	19652
SA_{rec} (skin surface area - adult) cm^2	19652	19652
SA_{rec-a} (skin surface area - adult) cm^2	19652	19652
Apparent thickness of stratum corneum (cm)	0.001	0.001
TR (target risk) unitless	1.0E-06	1.0E-06

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	Chemical Type	SF_o $(mg/kg\text{-}day)^{-1}$	SF_o Ref	RfD (mg/kg-day)	RfD Ref
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	No	Yes	Organics	Organics	-		3.00E-06	D
Perfluorobutanesulfonic acid (PFBS)	375-73-5	No	No	Organics	Organics	-		3.00E-04	P
Perfluorobutanoic acid (PFBA)	375-22-4	No	Yes	Organics	Organics	-		1.00E-03	I
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	No	No	Organics	Organics	-		2.00E-05	A
Perfluorohexanoic acid (PFHxA)	307-24-4	No	No	Organics	Organics	-		5.00E-04	I
Perfluorononanoic acid (PFNA)	375-95-1	No	No	Organics	Organics	-		3.00E-06	A
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	No	No	Organics	Organics	-		2.00E-06	A
Perfluorooctanoic acid (PFOA)	335-67-1	No	No	Organics	Organics	7.00E-02	D	3.00E-06	A

Site-specific

Recreator Risk-Based Regional Screening Levels (RSL) for Surface Water

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; R = ORD; N = WI; W = TEF applied; E = RPF applied; G = see user guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

RfC (mg/m^3)	RfC Ref	RAGSe GIABS (unitless)	K_p (cm/hr)	MW	FA (unitless)	In EPD?	$DA_{event\ (ca)}$	DA_{event} (nc child)	DA_{event} (nc adult)	Ingestion SL TR=1E-06 (ug/L)	Dermal SL TR=1E-06 (ug/L)
-		1	0.0866752	330.1	0.8	Yes	-	4.9625E-6	8.5722E-6	-	-
-		1	0.0000193	300.1	1	Yes	-	0.0004963	0.0008572	-	-
-		1	0.0040619	214	1	Yes	-	0.0016542	0.0028574	-	-
-		1	0.0002581	400.1	1	Yes	-	0.0000331	0.0000571	-	-
-		1	0.0002686	314.1	1	Yes	-	0.0008271	0.0014287	-	-
-		1	0.0001988	464.1	1	Yes	-	4.9625E-6	8.5722E-6	-	-
-		1	4.6851E-7	500.1	1	No	-	-	-	-	-
-		1	0.0000216	414.4	1	Yes	0.000941	4.9625E-6	8.5722E-6	7.20E+01	1.94E+03

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Carcinogenic SL TR=1E-06 (ug/L)	Ingestion SL (Child) THQ=0.1 (ug/L)	Dermal SL (Child) THQ=0.1 (ug/L)	Noncarcinogenic SL (Child) THQ=0.1 (ug/L)	Ingestion SL (Adult) THQ=0.1 (ug/L)	Dermal SL (Adult) THQ=0.1 (ug/L)	Noncarcinogenic SL (Adult) THQ=0.1 (ug/L)	Screening Level (ug/L)
-	2.11E-01	5.49E-03	5.35E-03	1.12E+00	9.48E-03	9.40E-03	5.35E-03 nc
-	2.11E+01	2.40E+03	2.09E+01	1.12E+02	4.14E+03	1.09E+02	2.09E+01 nc
-	7.02E+01	6.60E+01	3.40E+01	3.74E+02	1.14E+02	8.74E+01	3.40E+01 nc
-	1.40E+00	6.26E+00	1.15E+00	7.49E+00	1.08E+01	4.42E+00	1.15E+00 nc
-	3.51E+01	2.62E+02	3.09E+01	1.87E+02	4.52E+02	1.32E+02	3.09E+01 nc
-	2.11E-01	8.07E-01	1.67E-01	1.12E+00	1.39E+00	6.22E-01	1.67E-01 nc
-	1.40E-01	-	1.40E-01	7.49E-01	-	7.49E-01	1.40E-01 nc
6.94E+01	2.11E-01	1.02E+01	2.06E-01	1.12E+00	1.77E+01	1.06E+00	2.06E-01 nc