Post-Construction Compliance Groundwater Monitoring Report

Dakota Creek Industries
Anacortes, Washington
Facility Site ID: 2670
Cleanup Site ID: 5174

for
Washington State Department of Ecology
on Behalf of Port of Anacortes

November 1, 2024

2101 4th Avenue, Suite 950
Seattle, Washington 98101
206.278.2674

GeoEngineers

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Facility Site ID: 2670
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File No. 5147-006-18
November 1, 2024

Prepared for:

Washington State Department of Ecology
PO Box 47600
Olympia, Washington 98504-7600

Attention: David Horne

On Behalf of:

Port of Anacortes
317 Commercial Avenue
Anacortes, Washington 98221

Prepared by:

GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, Washington 98101
206.278.2674

Robert S. Trahan, LG
Senior Environmental Scientist

John M. Herzog, PhD, LG
Senior Principal

RST:JMH:ch

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1.0 Introduction

This report presents the results of quarterly post-construction compliance groundwater monitoring completed by the Port of Anacortes (Port) at the Dakota Creek Industries Cleanup Site (Site). Pursuant to Consent Decree No. 22-2-00800-29 (Ecology 2022a), groundwater monitoring activities were completed by the Port to document groundwater conditions following completion of Ecology-selected cleanup action between June and August 2023 (2023 Cleanup Action). Details of the 2023 Cleanup Action are presented in the Cleanup Action Plan (CAP; Ecology 2022b) and Engineering Design Report (EDR; GeoEngineers 2022a).

The Site is situated along the shoreline of Guemes Channel at 115 Q Avenue (north of 3rd Street between Commercial Avenue and R Avenue) in Anacortes, Washington (Figure 1) and is part of the Washington State Department of Ecology (Ecology) Puget Sound Initiative and regional cleanup efforts on Fidalgo Island. The Site is listed in Ecology's Integrated Site Information System (ISIS) under Facility Site Identification No. 2670 and Cleanup Site Identification No. 5174. The property in which the Site is located is owned by the Port and is currently leased to Dakota Creek Industries (DCI) who uses the property for shipbuilding, maintenance and repair (DCI Lease Area). Detailed information regarding Site location and description, current and historical land use and Site conditions following completion of the 2023 Cleanup Action are presented in the CAP and Construction Completion Report (GeoEngineers 2023). The quarterly post-construction compliance groundwater monitoring activities and chemical analytical results are summarized in the following sections.

2.0 Post-Construction Groundwater Compliance Monitoring

Post-construction groundwater compliance monitoring was completed at the Site on a quarterly basis for one year to document groundwater conditions down gradient of the 2023 Cleanup Action area and other areas of the Site in which concentrations of arsenic, nickel and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) in soil exceeding the cleanup level remain in-place as part of the CAP. In accordance with the CAP, the paved surfaces (asphalt and concrete pavement), gravel working surfaces including gravel working surfaces over concrete pavement and the open cell bulkhead at the Site are engineering controls to prevent direct contact with the contaminated soil that remains in place. Surface pavement and a stormwater conveyance and treatment system limit stormwater infiltration to prevent the mobilization and discharge of soil contaminants to surface water. Site controls established for the DCI Lease Area and monitoring requirements to maintain their integrity are described in the Engineering and Institutional Controls Monitoring and Maintenance Plan (GeoEngineers 2024). Soil conditions following completion of the 2023 Cleanup Action are summarized in Figure 2.

Post-construction groundwater compliance monitoring was completed during the following four events:

- Round 1 – Completed on November 28, 2023
- Round 2 – Completed on February 14, 2024

- Round 3[1] – Completed between May 21 and May 24, 2024
- Round 4 – Completed on August 19, 2024

Post-construction groundwater compliance monitoring activities were completed in general accordance with the Ecology-approved Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022b). The sampling locations, procedures, and chemical analysis for the post-construction groundwater monitoring activities are summarized in the following sections.

2.1 POST-CONSTRUCTION GROUNDWATER COMPLIANCE MONITORING WELLS

In accordance with the EDR, following the completion of the 2023 Cleanup Action Ecology approved the following monitoring wells for the post-construction groundwater compliance monitoring: MW-2B, MW-3A, MW-6 and MW-8 (Ecology 2023). The post-construction groundwater compliance monitoring wells are shown relative to the completed 2023 Cleanup Action area in Figure 2. Completion details for the post-construction groundwater compliance monitoring wells are presented in Appendix A and summarized in Table 1.

2.2 GROUNDWATER SAMPLING AND ANALYSIS

During each compliance monitoring event, groundwater samples were collected at or around the predicted day-time low tide based on the tide elevation for the United States National Oceanic and Atmospheric Administration (NOAA) Guemes Channel tide station (Station ID 9448794). Prior to sampling, groundwater levels were measured from the top of each surveyed well casing rim to the nearest 0.01 foot using a decontaminated electric water level indicator (e-tape). Measured water levels for each monitoring event are summarized in Table 2.

Groundwater samples were collected using low-flow/low-turbidity sampling techniques during each monitoring event to minimize the suspension of sediment in the groundwater samples collected. Using a peristaltic pump, groundwater was pumped at rate not exceeding 0.5 liter per minute through dedicated polyethylene tubing with the end positioned in the well at the approximate midpoint of the screened interval.

A YSI Pro series water quality meter with flow-through-cell was used to monitor the following parameters during purging:

- Acidity (pH);
- Electrical conductivity (EC);
- Turbidity;
- Dissolved oxygen (DO);
- Temperature;

[1] Groundwater samples from monitoring wells MW-2B, MW-3A and MW-8 were collected on May 21, 2024, in accordance with the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022b). Monitoring well MW-6 (Figure 2) was inaccessible on May 21, 2024, due to the ponding of stormwater at the well from a heavy rainfall event. The revised schedule for the groundwater sample collection from MW-6 was coordinated with Ecology and the sample was obtained on May 24, 2024, when the ponded water had dissipated.

- Total dissolved solids (TDS);
- Oxygen reduction potential (ORP); and
- Salinity.

Groundwater samples were collected when these parameters were observed to vary by less than 10 percent on three consecutive measurements. The stabilized field measurements at each well for each of the monitoring events are summarized in Table 2. Groundwater samples collected from the monitoring wells were submitted to OnSite Environmental, Inc. in Redmond, Washington (Ecology-accredited laboratory), for chemical analysis of total and dissolved arsenic and nickel, utilizing United States Environmental Protection Agency (EPA) Method 200.8 and cPAHs using EPA Method 8270/SIM.

2.2.1 Quality Control/Quality Assurance

Laboratory data for each quarterly monitoring event are presented in Appendix B. An EPA-defined Stage 2B validation (EPA Document 540-R-08-005; EPA 2009) was completed on the laboratory data (Appendix C). Based on the results of the Stage 2B validation, the data were determined to be acceptable for their intended use as qualified.

2.2.2 Investigation Derived Waste

Purge and decontamination water generated by the groundwater monitoring activities was collected and placed in a labeled and secured 55-gallon drum on Site pending transport to a permitted disposal facility. Incidental waste generated during sampling activities included items such as gloves, plastic sheeting, sample tubing, paper towels and similar expended and discarded field supplies. These materials were considered *de minimis* and were transferred from the Site for landfill disposal via dumpster or trash receptacle at a GeoEngineers office.

2.2.3 Deviations from the Groundwater Monitoring Program

Deviations to the groundwater monitoring program, as described above included the following:

- Due to the ponding of stormwater at the well from a heavy rainfall event, monitoring well MW-6 (Figure 2) was inaccessible during the May 21, 2024, sampling event. In coordination with Ecology, the groundwater sample from MW-6 was subsequently obtained on May 24, 2024, after the ponded water had dissipated.

2.3 POST-CONSTRUCTION GROUNDWATER CONDITION

2.3.1 Groundwater Flow and Direction

Measured groundwater elevations ranged between 4.38 and 8.05 feet mean lower low water (MLLW) during the post-construction quarterly groundwater monitoring events. Based on the average measured quarterly post-construction groundwater elevations, the predominant groundwater flow direction is toward the Guemes Channel.

Groundwater elevations measured during each quarterly sampling event are summarized in Table 2.

2.3.2 Analytical Results

Groundwater monitoring results for each quarterly monitoring event are presented in Table 3. Trend plots for arsenic, nickel and cPAHs are shown in Figures 3 through 5. Historical groundwater monitoring results are presented in Appendix D.

The following summarize the groundwater compliance monitoring results by monitoring well location:

- **MW-2B** – Total and dissolved nickel exceeded the groundwater cleanup level of 8.2 micrograms per liter (µg/L) during the November 2023 monitoring event. In subsequent monitoring events, total nickel exceeded the groundwater cleanup level during the May 2024 monitoring event; however, dissolved nickel was either not detected or was detected at a concentration less than the groundwater cleanup level. The trend analysis for nickel at this location (Figure 4) shows that following paving activities completed by DCI[2], the nickel concentration in groundwater at MW-2B has remained relatively stable with detected concentrations slightly greater or less than the groundwater cleanup level. During the May and August 2024 monitoring events, total cPAHs calculated using the using the toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene exceeded the groundwater cleanup level of 0.01 µg/L. Prior to the May 2024 monitoring event, cPAH compounds were not detected in groundwater at this location since June 2008 (Figure 5). The May 2024 groundwater monitoring event coincided with a heavy rainfall event resulting in the ponding of stormwater in several areas of the DCI Lease Area which may have contributed to the observed total cPAH exceedance at this location. The August 2024 monitoring event identified a significant reduction in the total cPAH concentration at MW-2B. However, cPAH was detected at a concentration slightly greater than the groundwater cleanup level.
- **MW-3A** – Total and dissolved arsenic and nickel either were not detected or were detected at concentrations less than the groundwater cleanup level. Total cPAHs were not detected during each of the quarterly post-construction monitoring events.
- **MW-6** – Total and dissolved arsenic and nickel, and total cPAHs were not detected during each of the quarterly post-construction monitoring events.
- **MW-8** – Total and dissolved arsenic were detected at concentrations exceeding the groundwater cleanup level in each of the four quarterly monitoring events. The trend analysis for arsenic at this location (Figure 3) shows that the range of detected total and dissolved arsenic concentrations in groundwater during each of the quarterly monitoring events are generally consistent with the range of detected concentrations observed at this location prior to the 2023 Cleanup Action. As part of the remedial Investigation/Feasibility Study (RI/FS; GeoEngineers 2022c), soil sampling and analysis was completed in the vicinity of MW-8 to identify potential sources of arsenic to the groundwater. The soil sampling and analysis completed in the vicinity of MW-8 did not identify potential source materials for arsenic adjacent to or upgradient of the well location. Additionally, arsenic concentrations in monitoring well MW-1 located upgradient of MW-8 were not detected greater than the groundwater cleanup level since paving by DCI was completed in 2016 (see Table D-1 in Appendix D). Although total and dissolved

[2] Between 2015 and 2016, DCI replaced a significant portion of their gravel working surface with asphalt pavement which prevents stormwater infiltration through the soil column. A comparison of the initial (2008 to 2013) groundwater monitoring results to the recent semi-annual groundwater monitoring results (2016 to 2017) show that the paved surfaces are limiting stormwater infiltration to soil and therefore, limiting leaching and subsequent migration of contaminants through the soil column to groundwater.

arsenic exceeded the groundwater cleanup level in monitoring well MW-8, the concentration of arsenic is stable.

3.0 Limitations

This report has been prepared for the exclusive use of the Port of Anacortes, their authorized agents and regulatory agencies in their evaluation of the Dakota Creek Industries Site located in Anacortes, Washington. No other party may rely on the product of our services unless we agree in advance and in writing to such reliance.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

4.0 Reference

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Washington State Department of Ecology (Ecology), 2023. Email correspondence from Ecology to GeoEngineers confirming the use of shoreline monitoring wells MW-2B, MW-3A, MW-6 and MW-8 for post-construction groundwater compliance monitoring. October 2, 2023.

United States Environmental Protection Agency (USEPA), 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Publication No. EPA-540-R-08-005. January 2009.

Tables

Table 1

Monitoring Well Completion Details

Dakota Creek Industries

Anacortes, Washington

Monitoring Well[1]	Date Installed	Installed By	Ecology Well Identification	Ground Elevation (ft MLLW)	Top of Casing Elevation (ft MLLW)	Bottom of Casing Elevation (ft MLLW)	Total Well Depth (ft bgs)	Screen Interval (ft bgs)	Well Casing and Screen Specifications	Monitoring Well Coordinates (Latitude/Longitude)
MW-2B	08/11/16	GeoEngineers	BJY-162	15.08	14.73	-4.92	20	10 to 20	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	N 48° 31' 15.0087" W 122° 36' 37.3672"
MW-3A	05/10/12	GeoEngineers	BHL-199	15.22	14.83	-4.78	20	5 to 20	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	N 48° 31' 15.0124" W 122° 36' 35.3293"
MW-6	05/10/12	GeoEngineers	BHL-200	13.50	12.46	-6.50	20	5 to 20	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	N 48° 31' 14.9508" W 122° 36' 33.8851"
MW-8	11/04/15	GeoEngineers	BIX-153	14.39	13.80	-5.61	20	5 to 20	2-Inch Diameter Schedule 40 PVC Well Casing and Screen with 0.010-Inch Slot Width	N 48° 31' 12.9220" W 122° 36' 33.8745"

Notes:

[1] Monitoring well locations are shown in Figure 2.

Monitoring wells were installed using hollow-stem auger (HSA) drilling methods.

MLLW = mean lower low water

ft = feet

bgs = below ground surface

PVC = polyvinyl chloride

Table 2

Post-Construction Groundwater Elevation and Field Parameters

Dakota Creek Industries

Anacortes, Washington

Groundwater Monitoring Well[1]	Groundwater Monitoring Event	Date Sampled	Top of Casing Elevation (ft MLLW)	Depth to Groundwater (ft)	Groundwater Elevation (ft MLLW)	pH	Specific Conductance (µS/cm)	Temperature (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Salinity (ppt)	Turbidity (NTU)
MW-2B	Round 1	11/28/23	14.73	7.21	7.52	6.95	21,694	14.0	0.14	9.0	17.51	16.52	6.05
	Round 2	02/14/24		7.74	6.99	7.14	19,444	9.7	5.20	108.2	17.86	16.84	2.3
	Round 3	05/21/24		9.22	5.51	7.16	9,990	13.1	3.38	89.9	8.30	7.42	27.2
	Round 4	08/19/24		9.55	5.18	7.00	23,710	19.0	0.49	6.3	15.40	14.42	0.02
MW-3A	Round 1	11/28/23	14.83	6.78	8.05	7.58	33,497	9.9	6.18	22.8	30.61	30.43	8.94
	Round 2	02/14/24		9.98	4.85	7.52	28,928	8.5	9.08	121.6	27.48	26.91	5.62
	Round 3	05/21/24		10.45	4.38	7.59	27,400	10.6	6.15	112.2	24.53	23.89	24.7
	Round 4	08/19/24		10.37	4.46	7.48	44,190	16.2	3.98	183.6	28.72	28.58	0.27
MW-6	Round 1	11/28/23	12.46	4.69	7.77	7.59	33,258	9.3	6.60	4.5	30.91	30.72	9.45
	Round 2	02/14/24		7.58	4.88	7.47	29,738	8.4	8.04	133.2	28.27	27.76	5.02
	Round 3	05/24/24		7.80	4.66	7.59	32,440	11.3	7.60	116.0	28.58	28.28	2.77
	Round 4	08/19/24		8.01	4.45	7.58	44,930	14.5	5.54	187.3	29.20	29.07	22.7
MW-8	Round 1	11/28/23	13.80	7.08	6.72	7.17	2,028	14.6	0.22	-112.2	1.64	1.37	8.04
	Round 2	02/14/24		6.72	7.08	6.87	2,580	13.0	0.13	-17.3	2.11	1.75	6.93
	Round 3	05/21/24		7.73	6.07	7.26	1,510	13.2	0.18	-127.1	1.27	1.00	36.8
	Round 4	08/19/24		7.42	6.38	6.88	1,964	15.7	0.14	-67.0	1.28	1.01	6.29

Notes:

[1] Monitoring well locations shown in Figure 2.

°C = degree Celsius

ft = feet

g/L = grams per liter

mg/L = milligrams per liter

MLLW = Mean Lower Low Water

mV = millivolt

NTU = Nephelometric Turbidity Unit

ORP = oxidation/reduction potential

ppt = parts per thousand

TDS = total dissolved solids

µS/cm = micro Siemens per centimeter

Table 3

Post-Construction Groundwater Chemical Analytical Data

Dakota Creek Industries

Anacortes, Washington

Groundwater Monitoring Well[1]	Groundwater Monitoring Event	Date Sampled	Units	Total Metals[2]		Metals[2]		Carcinogenic Polycyclic Aromatic Hydrocarbons[3] (cPAHs)								
				Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Total cPAH TEQ[4] (ND=0.5RL)
MW-2B	Round 1	11/28/23	µg/L	7.8 U	**9.6**	8.0 U	**9.1**	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 3	05/21/24	µg/L	5.6 U	**13**	5.0 U	**5.2**	**0.013**	**0.026**	**0.024**	0.0095 U	**0.015**	**0.016**	0.0095 U	**0.024**	**0.022**
	Round 4	08/19/24	µg/L	**6.9**	5.6 U	**5.9**	5.0 U	0.0094 U	**0.016**	**0.017**	0.0094 U	**0.01**	0.0094 U	0.0094 U	0.0094 U	**0.014**
MW-3A	Round 1	11/28/23	µg/L	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 3	05/21/24	µg/L	5.6 U	**6.9**	5.0 U	5.0 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 4	08/19/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
MW-6	Round 1	11/28/23	µg/L	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 3	05/24/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 4	08/19/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
DUP (MW-6)	Round 1	11/28/23	µg/L	7.8 U	7.8 U	8.0 U	8.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 2	02/14/24	µg/L	6.9 U	6.9 U	6.3 U	6.3 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	Round 3	05/24/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	Round 4	08/19/24	µg/L	5.6 U	5.6 U	5.0 U	5.0 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
MW-8	Round 1	11/28/23	µg/L	**18**	7.8 U	**14**	8.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	Round 2	02/14/24	µg/L	**16**	6.9 U	**16**	6.3 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	Round 3	05/21/24	µg/L	**19**	5.6 U	**18**	5.6 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.007 U
	Round 4	08/19/24	µg/L	**17**	5.6 U	**19**	5.0 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
Site-Specific Groundwater Cleanup Level (µg/L)				8	8.2	8	8.2	see cPAH TEQ								0.01

Notes:

[1] Monitoring well locations shown in Figure 2.

[2] Total and dissolved metals analyzed by United States Environmental Protection Agency (EPA) Method 200.8.

[3] Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA method 8270/SIM.

[4] Total cPAHs calculated using toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene. cPAHs that were not detected were assigned a value of one half of the reporting limit for these

µg/L = microgram per liter

ND = Non-Detect

RL = Reporting Limit

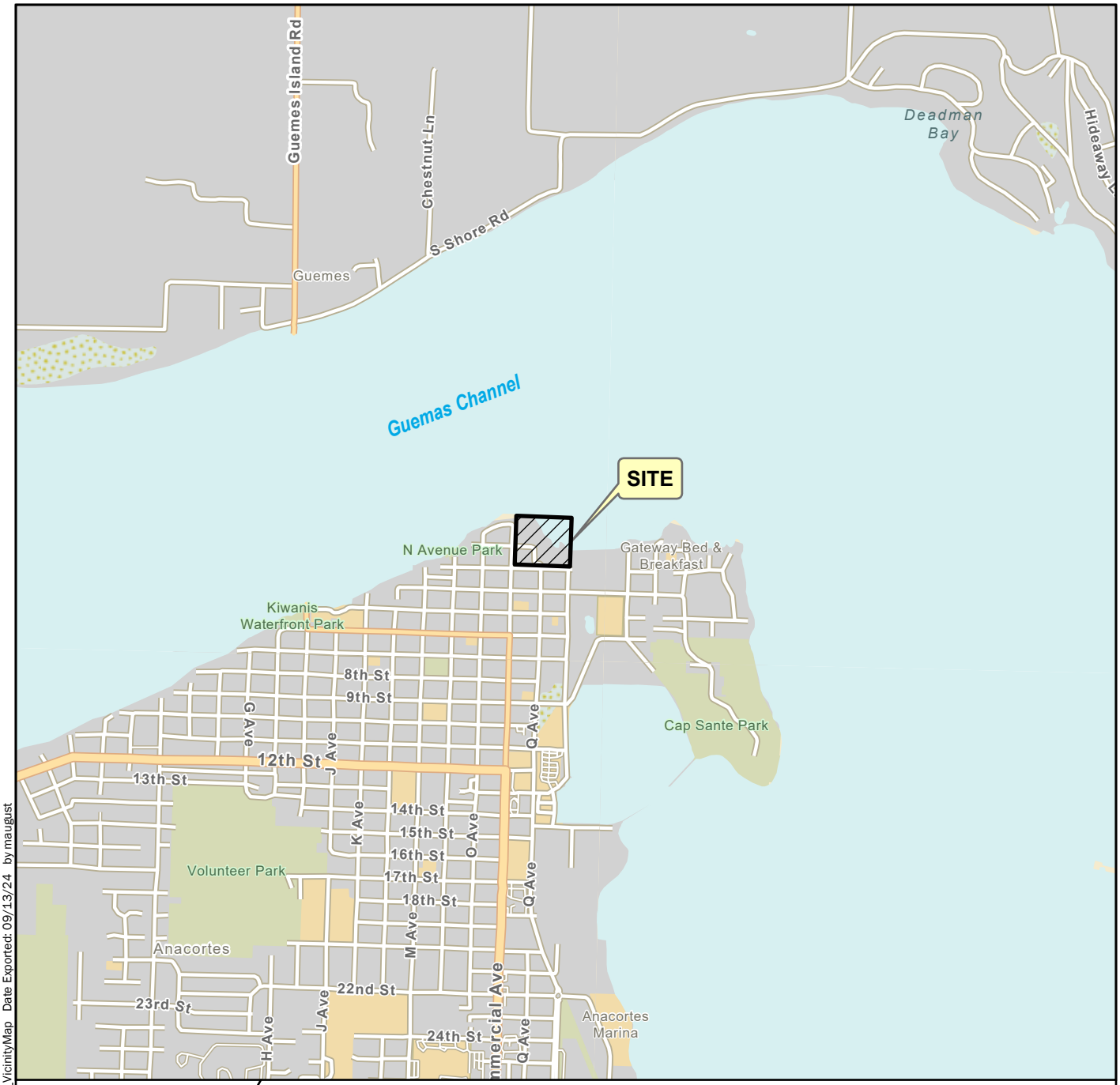
U = Laboratory qualifier indicating analyte not detected at level above listed reporting limit

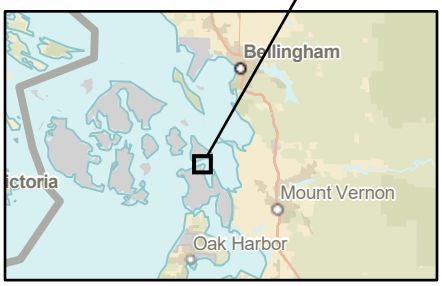
Bold indicates analyte was detected.

Shading indicates analyte was detected at a concentration greater than the Site-Specific Groundwater Cleanup Level.

Chemical analyses performed by OnSite Environmental, Inc. of Redmond, Washington.

Figures





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Feet

Source(s):
- ESRI

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Vicinity Map

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

Figure 1

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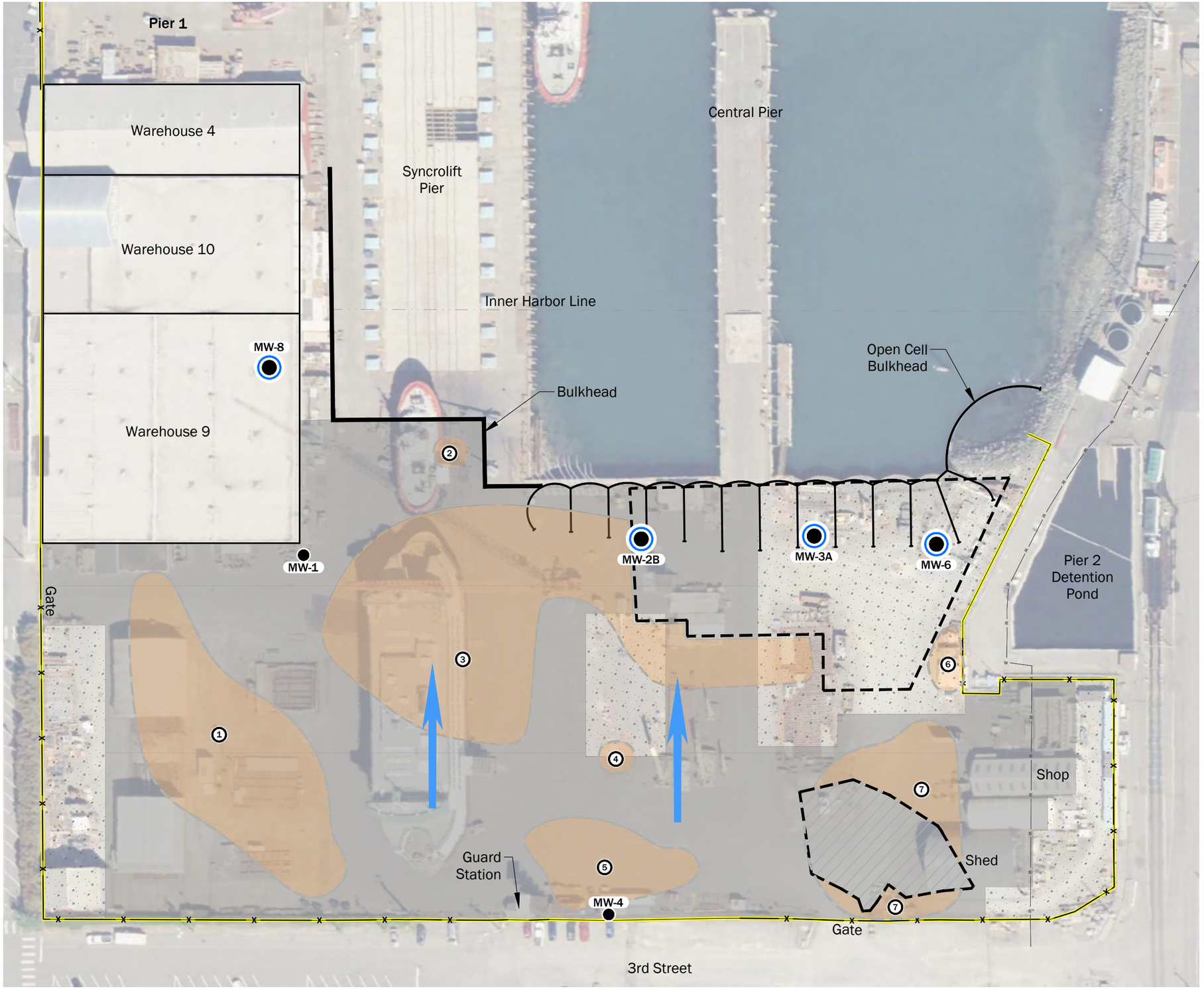


Legend

- Dakota Creek Industries (DCI) Lease Area
- Fence
- Interum Action and Backfill Area
- Asphalt/Concrete Pavement
- Gravel Working Surface
- MW-1 — Monitoring Well (Active)
- MW-8 — Post-Construction Compliance Monitoring Well
- Inferred Groundwater Flow Direction
- Area of Soil Contamination Based on Previous Site Investigation
- Import Soil Backfill Area

Soil Contamination Area	Contaminant of Concern (COC)	Depth of Contamination (feet bgs)
1	Arsenic and Nickel	0 - 10
2	Arsenic	0 - 2
3	Arsenic and Nickel	0 - 10
4	Total cPAHs TEQ	5 - 13
5	Arsenic and Nickel	0 - 8
6	Nickel	0 - 8
7	Arsenic and Nickel	0 - 8

cPAH - Carcinogenic Polycyclic Aromatic Hydrocarbon
TEQ - Toxic Equivalent Quotient
bgs - Below Ground Surface

Source(s):
- Aerial from Microsoft Bing, 2023

Projection: WA State Plane, North Zone, NAD83, US Foot

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

N

0 80
Feet

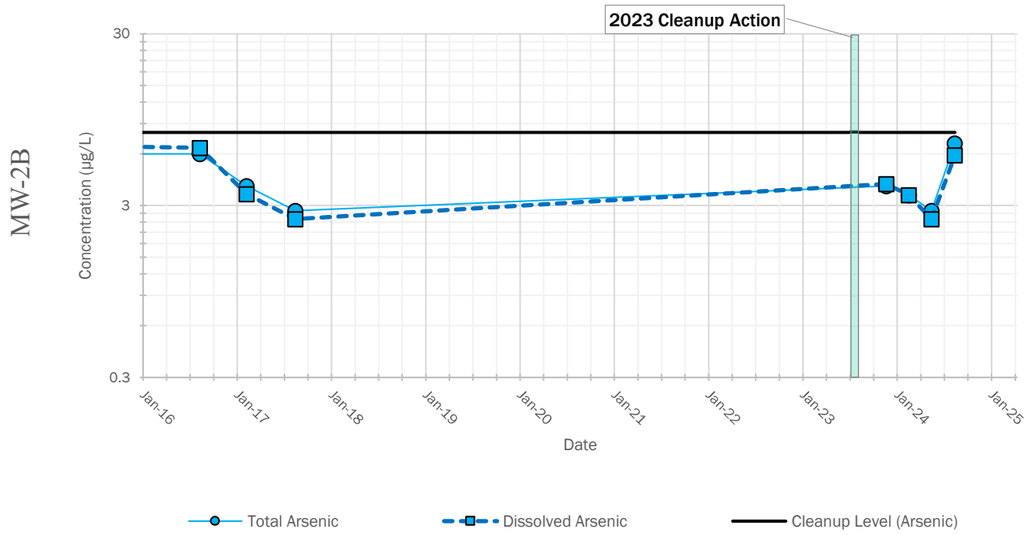
Site Plan

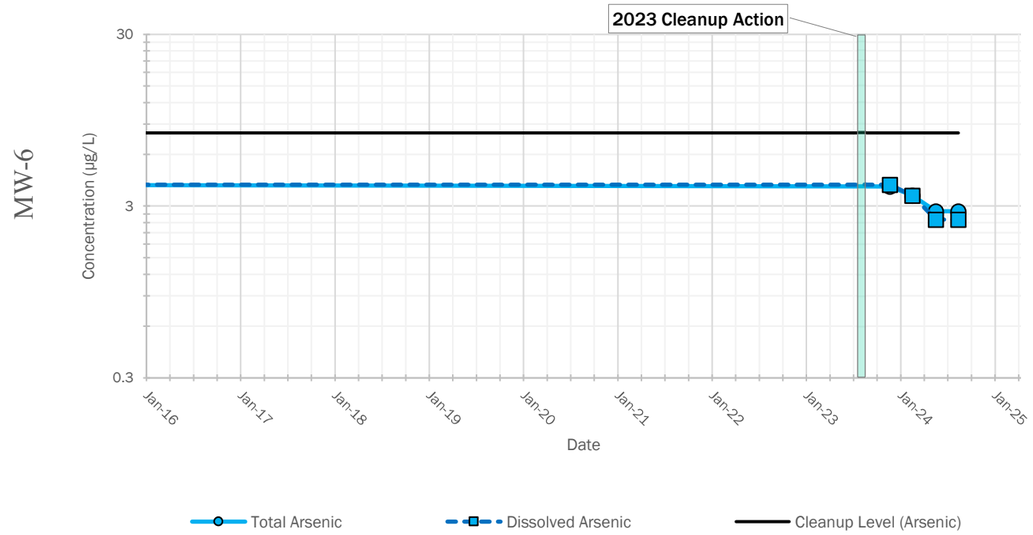
Dakota Creek Industries
Anacortes, Washington

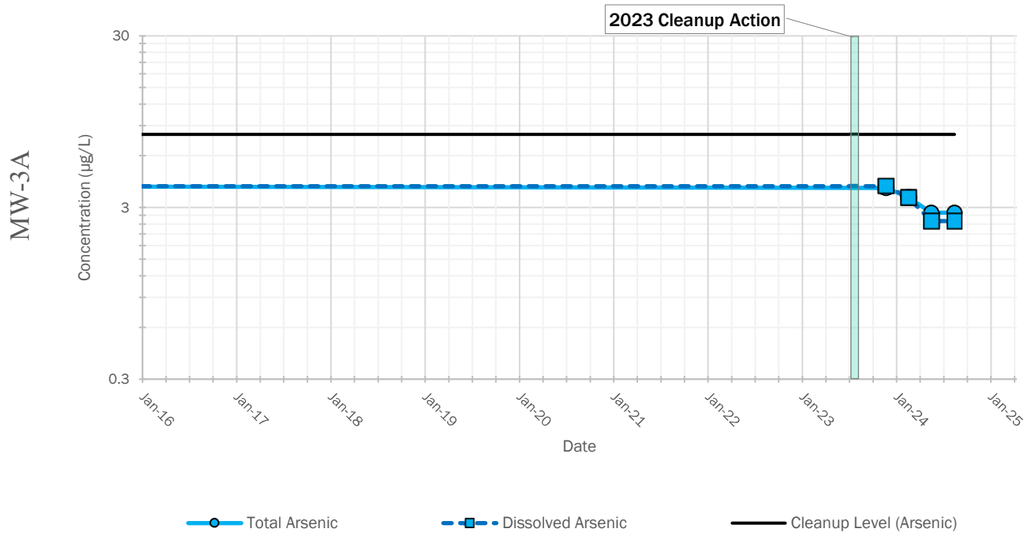
GeoEngineers

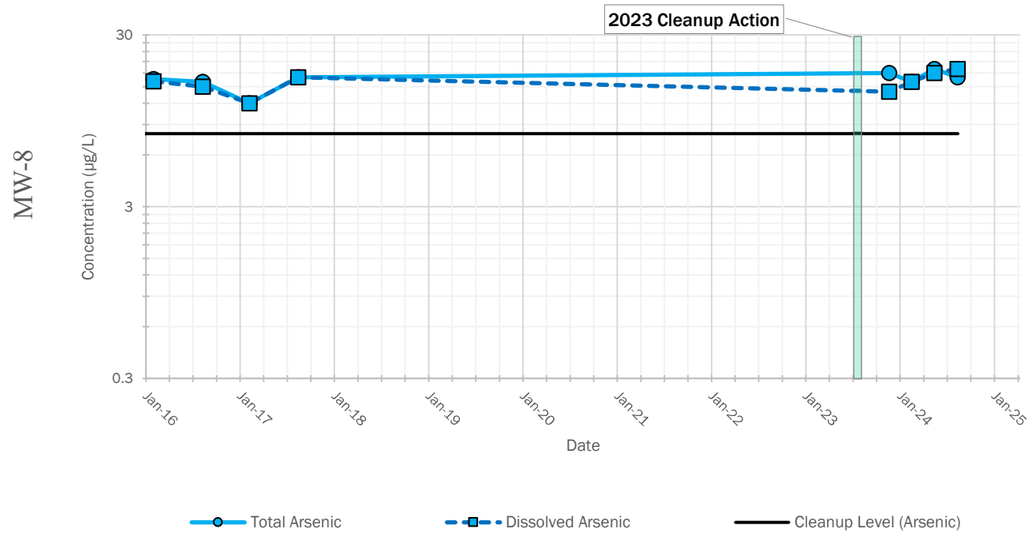
Figure 2

P:\5\5147006\CAD\18\DCI GW Monitoring Report 2023\5147006618_F02_Site Plan.dwg TAB:2 Date Exported: 09/13/24 - 9:43 by Jfellows









Notes:

1. Non-detect result reported as ½ the reporting limit.
2. µg/L = microgram per liter.
3. The highest sample result for parent/duplicate is shown.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

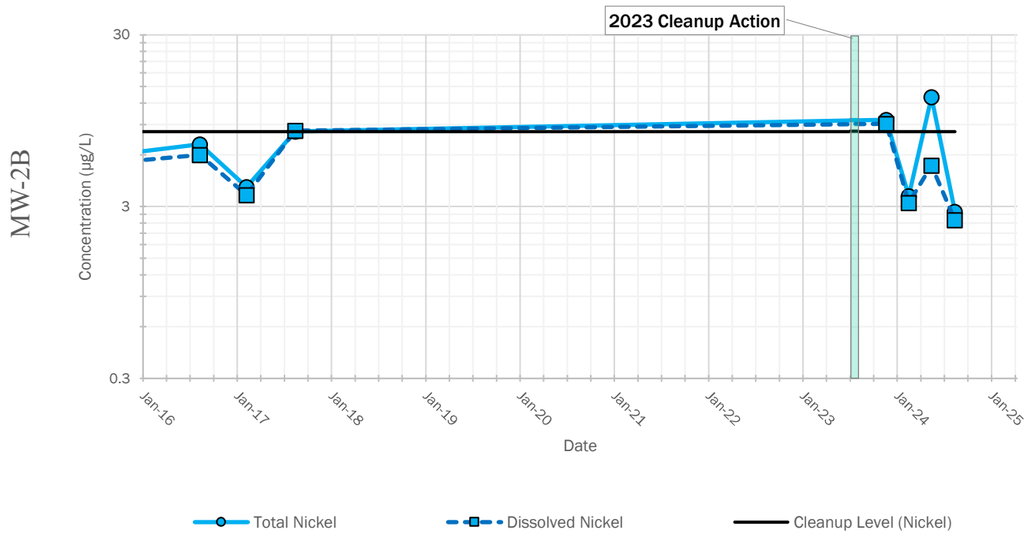
Data Source: Table D-1. Historical Groundwater Chemical Analytical Data (Appendix D).

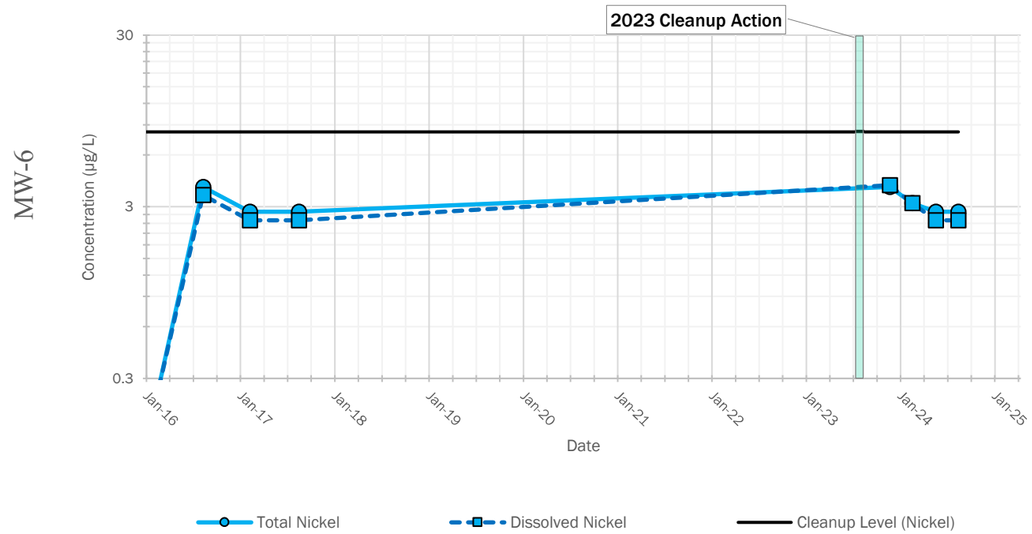
Summary of Arsenic In Groundwater

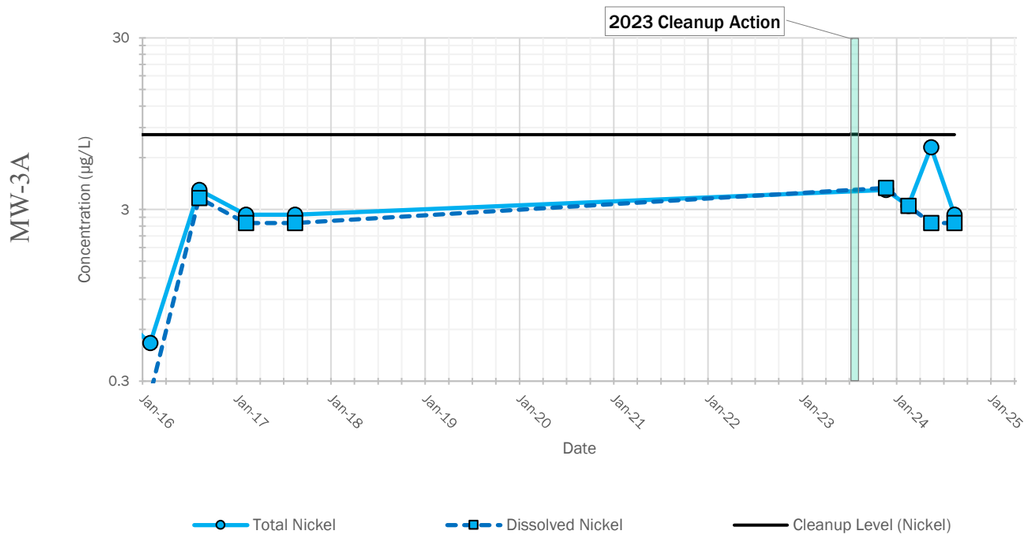
Dakota Creek Industries
Anacortes, Washington

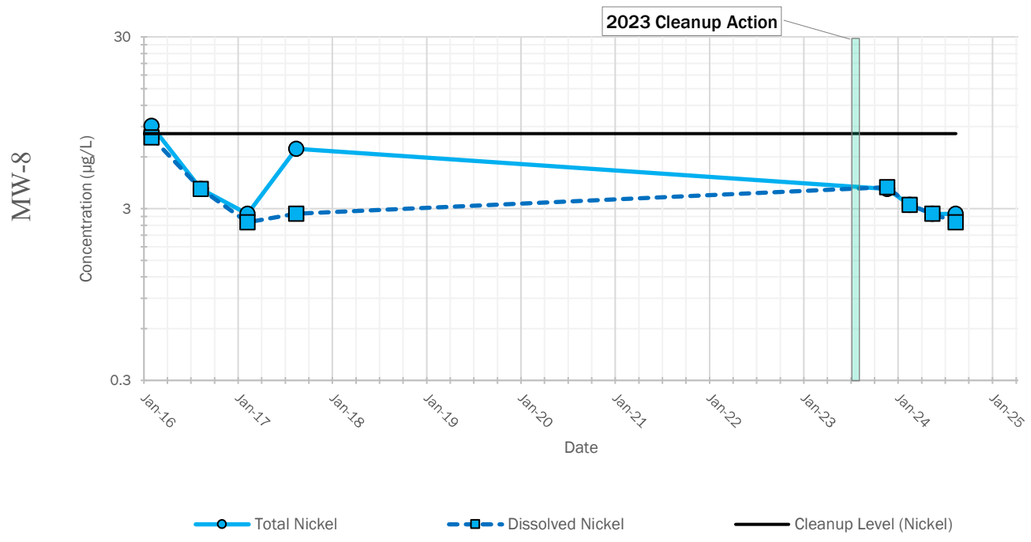
GeoEngineers

Figure 3









Notes:

1. Non-detect result reported as ½ the reporting limit.
2. µg/L = microgram per liter.
3. The highest sample result for parent/duplicate is shown.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

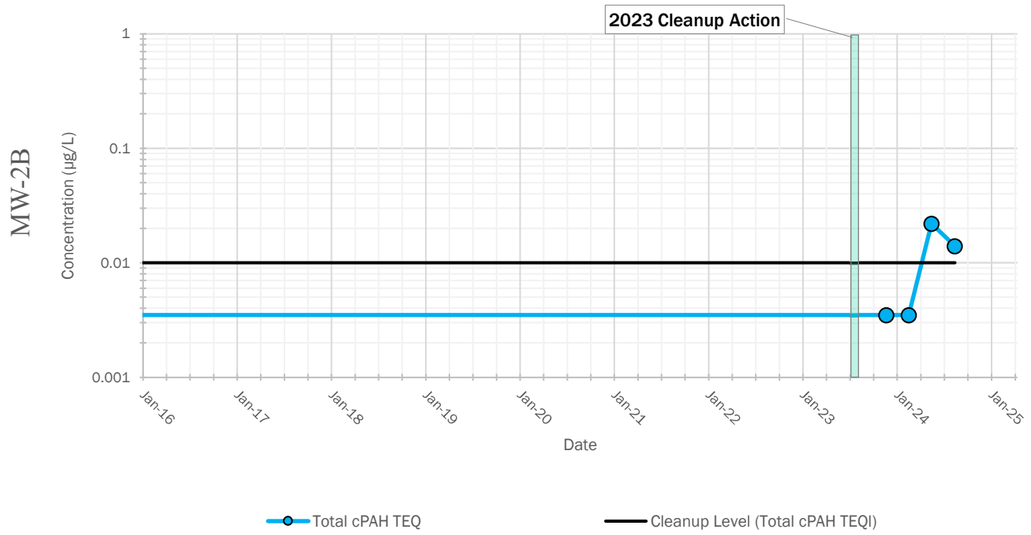
Data Source: Table D-1. Historical Groundwater Chemical Analytical Data (Appendix D).

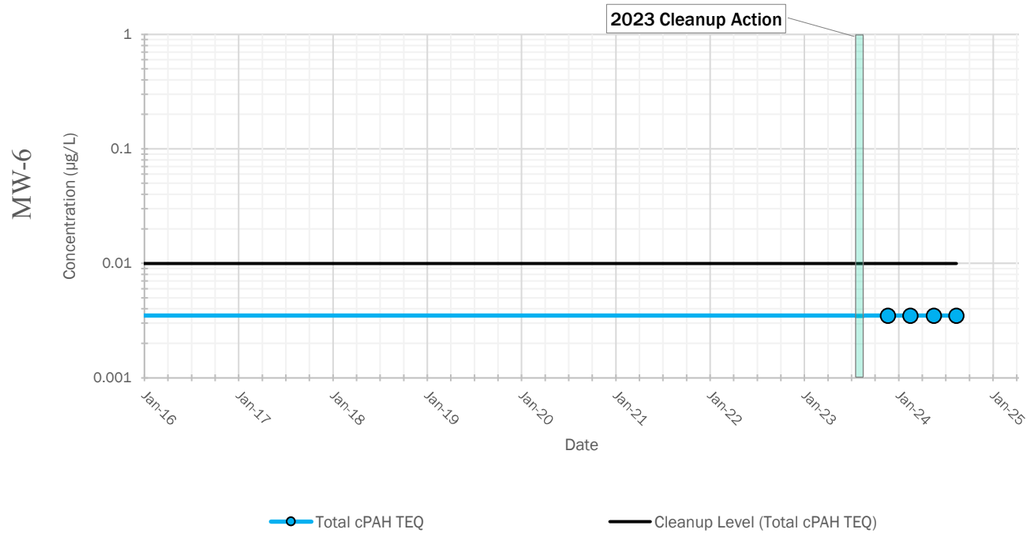
Summary of Nickel In Groundwater

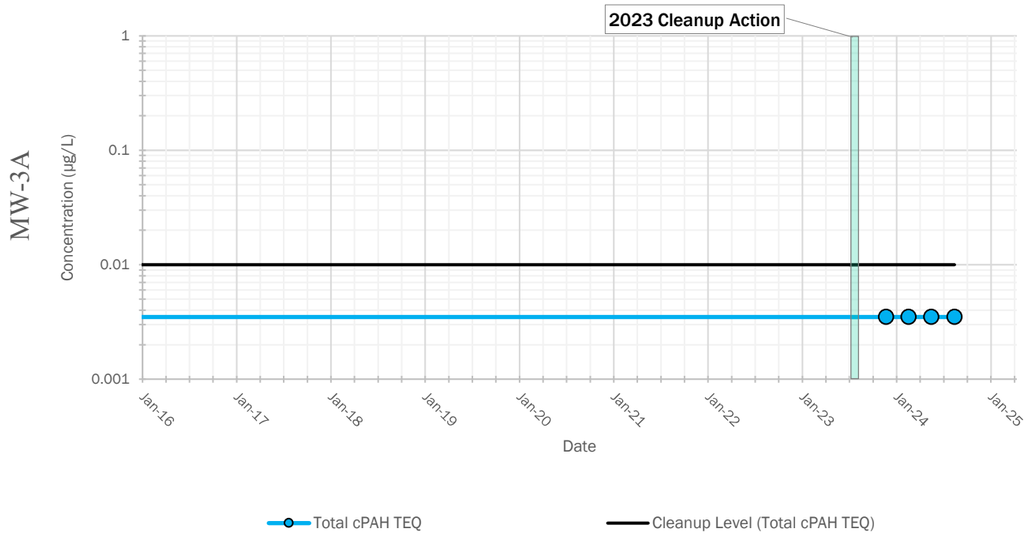
Dakota Creek Industries
Anacortes, Washington

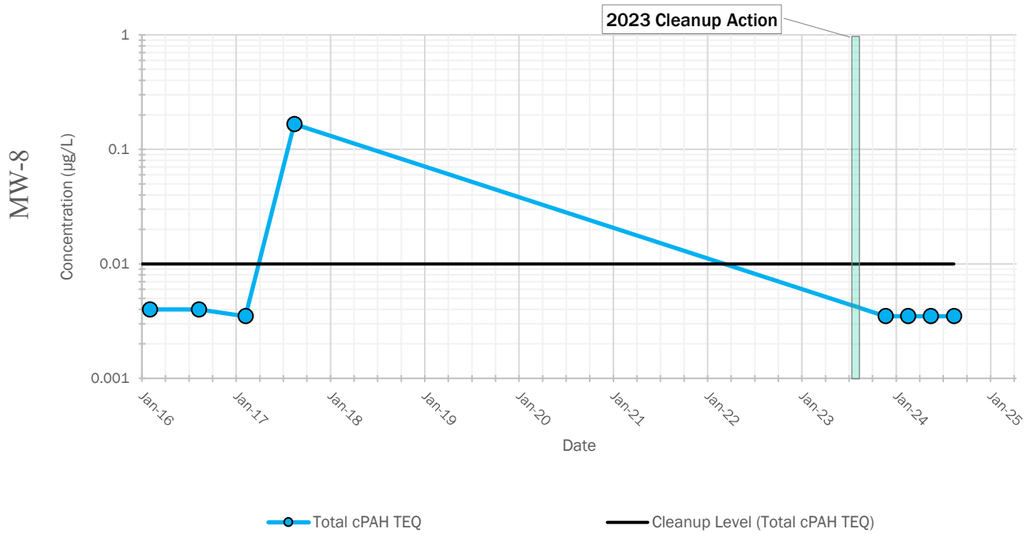
GeoEngineers

Figure 4









Notes:

1. Non-detect result reported as ½ the reporting limit.
2. µg/L = microgram per liter.
3. cPAH = carcinogenic polycyclic aromatic hydrocarbon.
4. TEQ = toxic equivalency quotient.
5. The highest sample result for parent/duplicate is shown.

Data Source: Table D-1. Historical Groundwater Chemical Analytical Data (Appendix D).

Summary of Total cPAH TEQ In Groundwater

Dakota Creek Industries
Anacortes, Washington

GeoEngineers

Figure 5

Appendices

Appendix A

Well Completion Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod

Groundwater Contact

Measured groundwater level in exploration, well, or piezometer

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

A "WOH" indicates sampler pushed using the weight of the hammer.

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

GeoEngineers

FIGURE A-1

Drilled Start 8/11/2016	End 8/11/2016	Total Depth (ft) 20.5	Logged By NRS / Checked By RST	Driller Cascade Drilling, LP	Drilling Method Hollow-Stem Auger

Hammer Data	300 (lbs) / 30 (in) Drop	Drilling Equipment	Mobile B-90
Surface Elevation (ft) / Vertical Datum	15.08 MLLW	Top of Casing Elevation (ft)	14.7
Latitude / Longitude	48.520904 / -122.61031	Horizontal Datum	Geographic NAD83

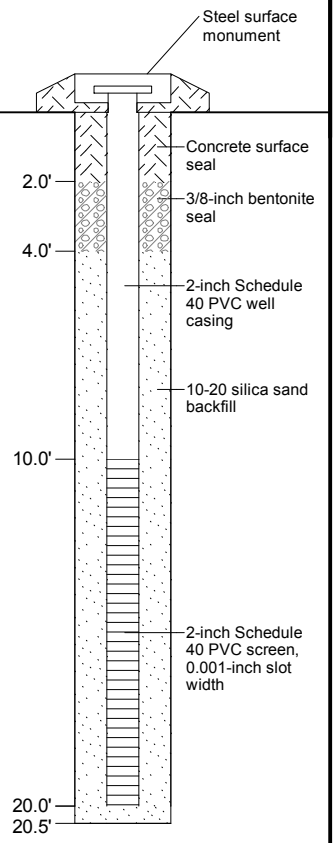
DOE Well I.D.: BJY 162
A 2 (in) well was installed on 8/11/2016 to a depth of 20.5 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
8/11/2016	10.3	4.5

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot (N_{60})	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)
10	0							AC	20 inches asphalt concrete		
								GP	Gray fine to medium sand with gravel		
	5	16	31		MW-2B-S-1					SS	<1
5											
	10	0	8		MW-2B-S-2	▼			(Rock in sampler shoe; no recovery)		
0								SP-SM	Gray coarse sand with silt and gravel (loose, wet)		
	15	16	28		MW-2B-S-3					NS	<1
-5								SM	Gray silty fine sand with occasional organics (dense, wet) (native)		
	20	18	21		MW-2B-S-4					NS	<1

WELL LOG



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-2B

GeoEngineers

Project: Dakota Creek Industries
Project Location: Anacortes, Washington
Project Number: 5147-006-11

Figure A-2
Sheet 1 of 1

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	5/10/2012	5/10/2012	20	ARJ	ARJ	Cascade Drilling, LP	Hollow-stem Auger

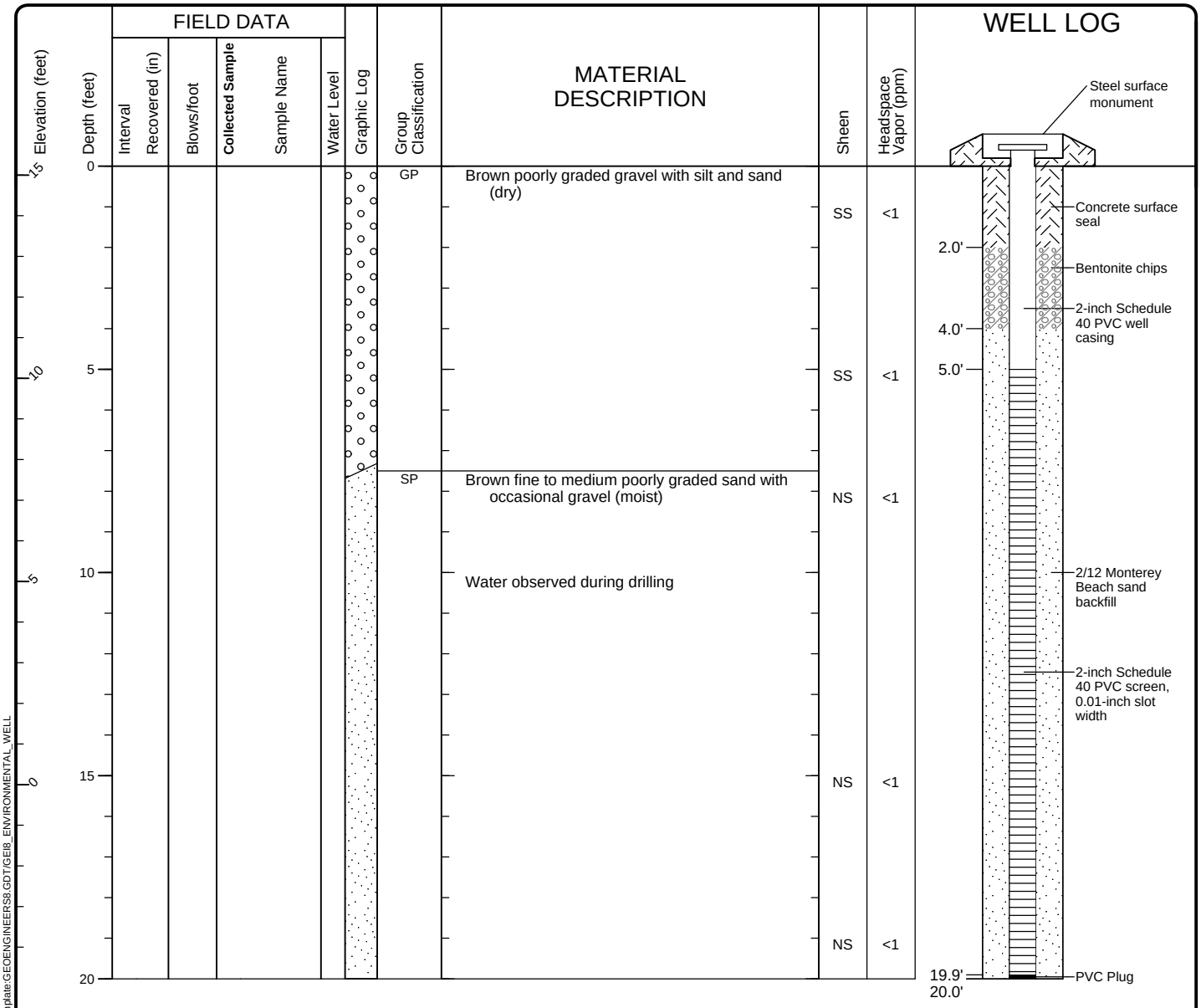
Auger Data	4¼-inch I.D.; 8¼-inch O.D.	Drilling Equipment	CME 75
Surface (ft) Elevation	15.22	Top of Casing Elevation (ft)	14.83
Latitude Longitude	48° 31' 15.0124" N 122° 36' 35.3293" W	Vertical Datum	Mean Lower Low Water (MLLW)

DOE Well I.D.: BHL-199
A 2 (in) well was installed on 5/10/2012 to a depth of 20 (ft).

Groundwater

Measurement Date	Depth to Water (ft)	Elevation (ft)

Notes: Material description and field screening data (sheen and headspace vapor) noted below are of soil cuttings.



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-3A

GeoEngineers

Project:	Dakota Creek Industries
Project Location:	Anacortes, Washington
Project Number:	5147-006-08

Figure A-3
Sheet 1 of 1

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	5/10/2012	5/10/2012	20	ARJ	ARJ	Cascade Drilling, LP	Hollow-stem Auger

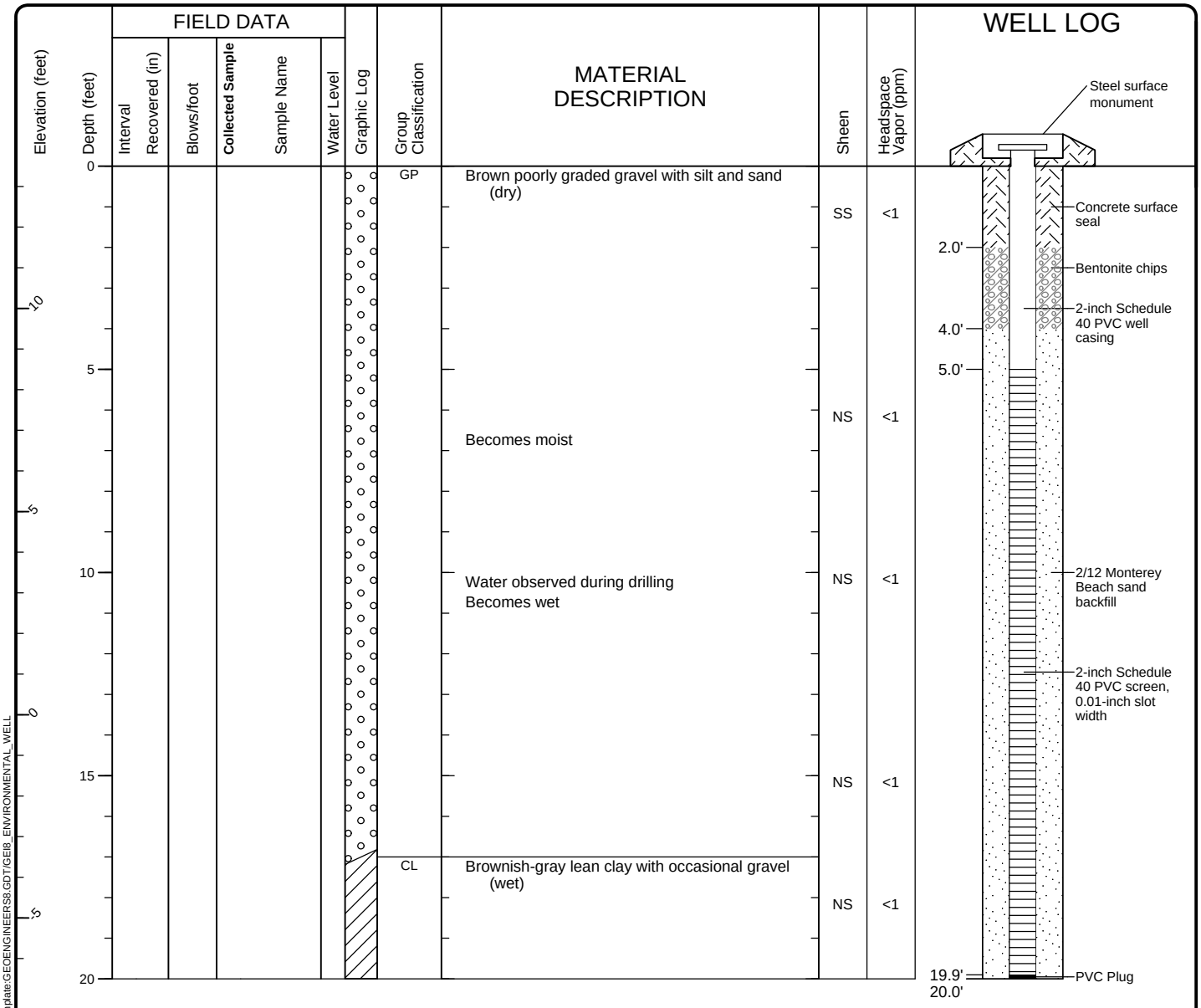
Auger Data	4¼-inch I.D.; 8¼-inch O.D.	Drilling Equipment	CME 75
Surface (ft) Elevation	13.5	Top of Casing Elevation (ft)	12.46
Latitude Longitude	48° 31' 14.9508" N 122° 36' 33.8851" W	Vertical Datum	Mean Lower Low Water (MLLW)

DOE Well I.D.: BHL-200
A 2 (in) well was installed on 5/10/2012 to a depth of 20 (ft).

Groundwater

Measurement Date	Depth to Water (ft)	Elevation (ft)

Notes: Material description and field screening data (sheen and headspace vapor) noted below are of soil cuttings.



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-6

GeoEngineers

Project:	Dakota Creek Industries
Project Location:	Anacortes, Washington
Project Number:	5147-006-08

Figure A-4
Sheet 1 of 1

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
11/4/2015	11/4/2015	20	CVD / RST	Cascade Drilling, LP	Hollow-Stem Auger

Hammer Data	300 (lbs) / 30 (in) Drop	Drilling Equipment	CME-850 Track Rig
Surface Elevation (ft) / Vertical Datum	14.39 / MLLW	Top of Casing Elevation (ft)	13.8
Latitude / Longitude	48.52025611 / -122.60916667	Horizontal Datum	Geographic / NAD83

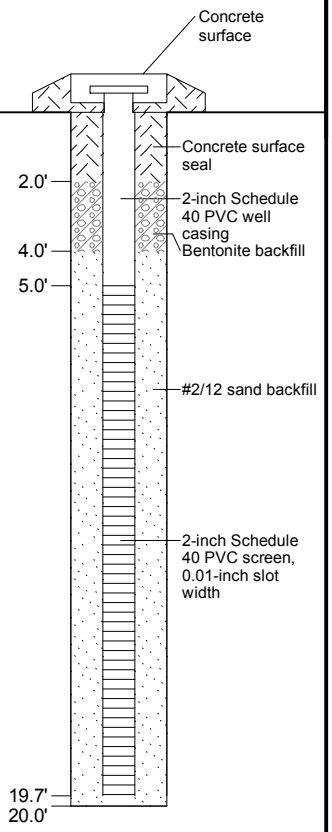
DOE Well I.D.: BIX 153
A 2 (in) well was installed on 11/4/2015 to a depth of 20 (ft).

Groundwater	Depth to Water (ft)	Elevation (ft)
Date Measured		
11/4/2015	8.0	5.8

Notes: Air knife from 0 to 6 feet below ground surface

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot (N_{60})	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm) PID
	0							CC	Approximately 6 inches concrete cement		
								SP	Brown silty fine to coarse sand, occasional gravel (moist) (fill)		
10	5	6			DCI-S-MW-8_5					NS	0.0
		6	50/6"		DCI-S-MW-8_7.5	▼				NS	0.0
5		6	50/6"		DCI-S-MW-8_10			SP-SM	Brown silty fine to medium sand with gravel (very dense, wet) (fill)	NS	0.0
	10	10	50/6"		DCI-S-MW-8_12.5					NS	0.0
0		10	50/6"		DCI-S-MW-8_15					NS	0.0
	15	6	50/6"		DCI-S-MW-8_17.5			SP	Brown/gray fine to coarse sand with gravel (very dense, wet)	NS	0.0
-5		6	50/6"		DCI-S-MW-8_20			SP	Gray fine to coarse sand with gravel (very dense, wet)	NS	0.0
	20										

WELL LOG



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well MW-8

GeoEngineers

Project: Dakota Creek Industries
Project Location: Anacortes, Washington
Project Number: 5147-006-11

Figure A-5
Sheet 1 of 1

Appendix B

Chemical Analytical Data Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 12, 2023

Robert Trahan
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 05147-006-18
Laboratory Reference No. 2311-272

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on November 29, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 12, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-272
Project: 05147-006-18

Case Narrative

Samples were collected on November 28, 2023 and received by the laboratory on November 29, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 12, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-272
Project: 05147-006-18

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B_20231128	11-272-01	Water	11-28-23	11-29-23	
MW-3A_20231128	11-272-02	Water	11-28-23	11-29-23	
MW-6_20231128	11-272-03	Water	11-28-23	11-29-23	
MW-8_20231128	11-272-04	Water	11-28-23	11-29-23	
DUP-1_20231128	11-272-05	Water	11-28-23	11-29-23	

Date of Report: December 12, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-272
Project: 05147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B_20231128**					
Laboratory ID:	11-272-01					
Naphthalene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*26-106*				
Pyrene-d10	*76*	*45-104*				
Terphenyl-d14	*93*	*43-114*				

Date of Report: December 12, 2023
Samples Submitted: November 29, 2023
Laboratory Reference: 2311-272
Project: 05147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3A_20231128**					
Laboratory ID:	11-272-02					
Naphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*68*	*26-106*				
Pyrene-d10	*76*	*45-104*				
Terphenyl-d14	*95*	*43-114*				

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PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6_20231128**					
Laboratory ID:	11-272-03					
Naphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*73*	*26-106*				
Pyrene-d10	*77*	*45-104*				
Terphenyl-d14	*102*	*43-114*				

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PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8_20231128**					
Laboratory ID:	11-272-04					
Naphthalene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.0095	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*46*	*26-106*				
Pyrene-d10	*47*	*45-104*				
Terphenyl-d14	*64*	*43-114*				

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PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-1_20231128**					
Laboratory ID:	11-272-05					
Naphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*45*	*26-106*				
Pyrene-d10	*49*	*45-104*				
Terphenyl-d14	*60*	*43-114*				

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TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B_20231128**					
Laboratory ID:	11-272-01					
Arsenic	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Nickel	**9.6**	7.8	EPA 200.8	12-9-23	12-11-23	
Client ID:	**MW-3A_20231128**					
Laboratory ID:	11-272-02					
Arsenic	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Nickel	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Client ID:	**MW-6_20231128**					
Laboratory ID:	11-272-03					
Arsenic	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Nickel	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Client ID:	**MW-8_20231128**					
Laboratory ID:	11-272-04					
Arsenic	**18**	7.8	EPA 200.8	12-9-23	12-11-23	
Nickel	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Client ID:	**DUP-1_20231128**					
Laboratory ID:	11-272-05					
Arsenic	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	
Nickel	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	

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DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B_20231128**					
Laboratory ID:	11-272-01					
Arsenic	**ND**	8.0	EPA 200.8		12-11-23	
Nickel	**9.1**	8.0	EPA 200.8		12-11-23	
Client ID:	**MW-3A_20231128**					
Laboratory ID:	11-272-02					
Arsenic	**ND**	8.0	EPA 200.8		12-11-23	
Nickel	**ND**	8.0	EPA 200.8		12-11-23	
Client ID:	**MW-6_20231128**					
Laboratory ID:	11-272-03					
Arsenic	**ND**	8.0	EPA 200.8		12-11-23	
Nickel	**ND**	8.0	EPA 200.8		12-11-23	
Client ID:	**MW-8_20231128**					
Laboratory ID:	11-272-04					
Arsenic	**14**	8.0	EPA 200.8		12-11-23	
Nickel	**ND**	8.0	EPA 200.8		12-11-23	
Client ID:	**DUP-1_20231128**					
Laboratory ID:	11-272-05					
Arsenic	**ND**	8.0	EPA 200.8		12-11-23	
Nickel	**ND**	8.0	EPA 200.8		12-11-23	

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1130W1					
Naphthalene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
2-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
1-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthylene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Acenaphthene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Fluorene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Phenanthrene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Anthracene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Pyrene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Chrysene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*26-106*				
Pyrene-d10	*78*	*45-104*				
Terphenyl-d14	*105*	*43-114*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1130W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.324**	**0.334**	0.500	0.500	65	67	35 - 84	3	34	
Acenaphthylene	**0.386**	**0.393**	0.500	0.500	77	79	44 - 97	2	29	
Acenaphthene	**0.376**	**0.364**	0.500	0.500	75	73	40 - 93	3	29	
Fluorene	**0.419**	**0.423**	0.500	0.500	84	85	46 - 97	1	24	
Phenanthrene	**0.392**	**0.371**	0.500	0.500	78	74	49 - 102	6	21	
Anthracene	**0.453**	**0.419**	0.500	0.500	91	84	50 - 99	8	21	
Fluoranthene	**0.407**	**0.396**	0.500	0.500	81	79	53 - 107	3	21	
Pyrene	**0.417**	**0.403**	0.500	0.500	83	81	52 - 111	3	23	
Benzo[a]anthracene	**0.437**	**0.426**	0.500	0.500	87	85	51 - 119	3	20	
Chrysene	**0.422**	**0.432**	0.500	0.500	84	86	52 - 113	2	21	
Benzo[b]fluoranthene	**0.406**	**0.405**	0.500	0.500	81	81	50 - 116	0	24	
Benzo(j,k)fluoranthene	**0.437**	**0.434**	0.500	0.500	87	87	54 - 113	1	22	
Benzo[a]pyrene	**0.413**	**0.416**	0.500	0.500	83	83	52 - 110	1	21	
Indeno(1,2,3-c,d)pyrene	**0.381**	**0.371**	0.500	0.500	76	74	55 - 114	3	21	
Dibenz[a,h]anthracene	**0.405**	**0.406**	0.500	0.500	81	81	55 - 111	0	19	
Benzo[g,h,i]perylene	**0.390**	**0.388**	0.500	0.500	78	78	52 - 111	1	20	
Surrogate:										
2-Fluorobiphenyl					*63*	*62*	*26-106*			
Pyrene-d10					*68*	*66*	*45-104*			
Terphenyl-d14					*79*	*78*	*43-114*			

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TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-9-23	12-11-23	
Nickel	**ND**	7.8	EPA 200.8	12-9-23	12-11-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-053-07										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-053-07										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**107**	**116**	111	111	ND	**97**	**104**	75-125	7	20	
Nickel	**111**	**116**	111	111	ND	**100**	**104**	75-125	4	20	

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TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV121123X	50.0	46.9	6.2	+/- 10%
Nickel	ICV121123X	50.0	50.7	-1.4	+/- 10%
Arsenic	CCV1121123X	40.0	41.0	-2.5	+/- 10%
Nickel	CCV1121123X	40.0	41.1	-2.8	+/- 10%
Arsenic	CCV1121123X	20.0	19.9	0.50	+/- 10%
Nickel	CCV1121123X	20.0	20.1	-0.50	+/- 10%
Arsenic	CCV2121123X	40.0	38.7	3.2	+/- 10%
Nickel	CCV2121123X	40.0	38.5	3.8	+/- 10%
Arsenic	CCV2121123X	20.0	20.9	-4.5	+/- 10%
Nickel	CCV2121123X	20.0	20.2	-1.0	+/- 10%

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TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV121123X	50.0	48.5	3.0	+/- 10%
Nickel	ICV121123X	50.0	50.8	-1.6	+/- 10%
Arsenic	CCV1121123X	40.0	40.9	-2.3	+/- 10%
Nickel	CCV1121123X	40.0	40.3	-0.75	+/- 10%
Arsenic	CCV1121123X	20.0	21.0	-5.0	+/- 10%
Nickel	CCV1121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV2121123X	40.0	40.1	-0.25	+/- 10%
Nickel	CCV2121123X	40.0	40.8	-2.0	+/- 10%
Arsenic	CCV2121123X	20.0	20.8	-4.0	+/- 10%
Nickel	CCV2121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV3121123X	40.0	39.6	1.0	+/- 10%
Nickel	CCV3121123X	40.0	40.1	-0.25	+/- 10%
Arsenic	CCV3121123X	20.0	20.4	-2.0	+/- 10%
Nickel	CCV3121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV4121123X	40.0	40.2	-0.50	+/- 10%
Nickel	CCV4121123X	40.0	40.0	0	+/- 10%
Arsenic	CCV4121123X	20.0	20.4	-2.0	+/- 10%
Nickel	CCV4121123X	20.0	20.5	-2.5	+/- 10%
Arsenic	CCV5121123X	40.0	40.7	-1.8	+/- 10%
Nickel	CCV5121123X	40.0	39.8	0.50	+/- 10%
Arsenic	CCV5121123X	20.0	20.7	-3.5	+/- 10%
Nickel	CCV5121123X	20.0	20.6	-3.0	+/- 10%

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DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1211D1					
Arsenic	**ND**	3.0	EPA 200.8		12-11-23	
Nickel	**ND**	8.0	EPA 200.8		12-11-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-03										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**82.2**	**84.2**	80.0	80.0	ND	**103**	**105**	75-125	2	20	
Nickel	**80.4**	**81.0**	80.0	80.0	ND	**101**	**101**	75-125	1	20	

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DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV121123X	50.0	48.5	3.0	+/- 10%
Nickel	ICV121123X	50.0	50.8	-1.6	+/- 10%
Arsenic	CCV1121123X	40.0	40.9	-2.3	+/- 10%
Nickel	CCV1121123X	40.0	40.3	-0.75	+/- 10%
Arsenic	CCV1121123X	20.0	21.0	-5.0	+/- 10%
Nickel	CCV1121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV2121123X	40.0	40.1	-0.25	+/- 10%
Nickel	CCV2121123X	40.0	40.8	-2.0	+/- 10%
Arsenic	CCV2121123X	20.0	20.8	-4.0	+/- 10%
Nickel	CCV2121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV3121123X	40.0	39.6	1.0	+/- 10%
Nickel	CCV3121123X	40.0	40.1	-0.25	+/- 10%
Arsenic	CCV3121123X	20.0	20.4	-2.0	+/- 10%
Nickel	CCV3121123X	20.0	20.7	-3.5	+/- 10%
Arsenic	CCV4121123X	40.0	40.2	-0.50	+/- 10%
Nickel	CCV4121123X	40.0	40.0	0	+/- 10%
Arsenic	CCV4121123X	20.0	20.4	-2.0	+/- 10%
Nickel	CCV4121123X	20.0	20.5	-2.5	+/- 10%
Arsenic	CCV5121123X	40.0	40.7	-1.8	+/- 10%
Nickel	CCV5121123X	40.0	39.8	0.50	+/- 10%
Arsenic	CCV5121123X	20.0	20.7	-3.5	+/- 10%
Nickel	CCV5121123X	20.0	20.6	-3.0	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEO ENGINEERS
Project Number: 05447-006-18
Project Name: DCI GW MONITORING
Project Manager: ROBERT TRANKLER
Sampled by: NATHAN SOLOMON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-272

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	PAH (SW8270/SIM)	TOTAL As, Ni: (200.8)	DIS. As, Ni: (200.8)		% Moisture
1	MW-2B_20231128	11.28.23	1505	WATER	4																		X	X	X		
2	MW-3A_20231128		1425		4																		X	X	X		
3	MW-6_20231128		1330		4																		X	X	X		
4	MW-8_20231128		1600		4																		X	X	X		
5	DUP-1_20231128		1200		4																		X	X	X		

	Signature	Company	Date	Time
Relinquished		GeoEngineers	11.29.23	11:03
Received		OSE	11/29/23	1103
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 0547-006-18

OnSite Project Number: 11-272

Initiated by: NB

Date Initiated: 11/29/23

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	3.8
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4	
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4	
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4	
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4	
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4	
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4	

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

COMPLETE DATA PACKAGE

- PAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals by EPA 200.8

PAHs EPA 8270E/SIM

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130011.D
Acq On : 30 Nov 2023 3:54 pm
Operator : JP
Sample : 11-272-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 30 16:09:30 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

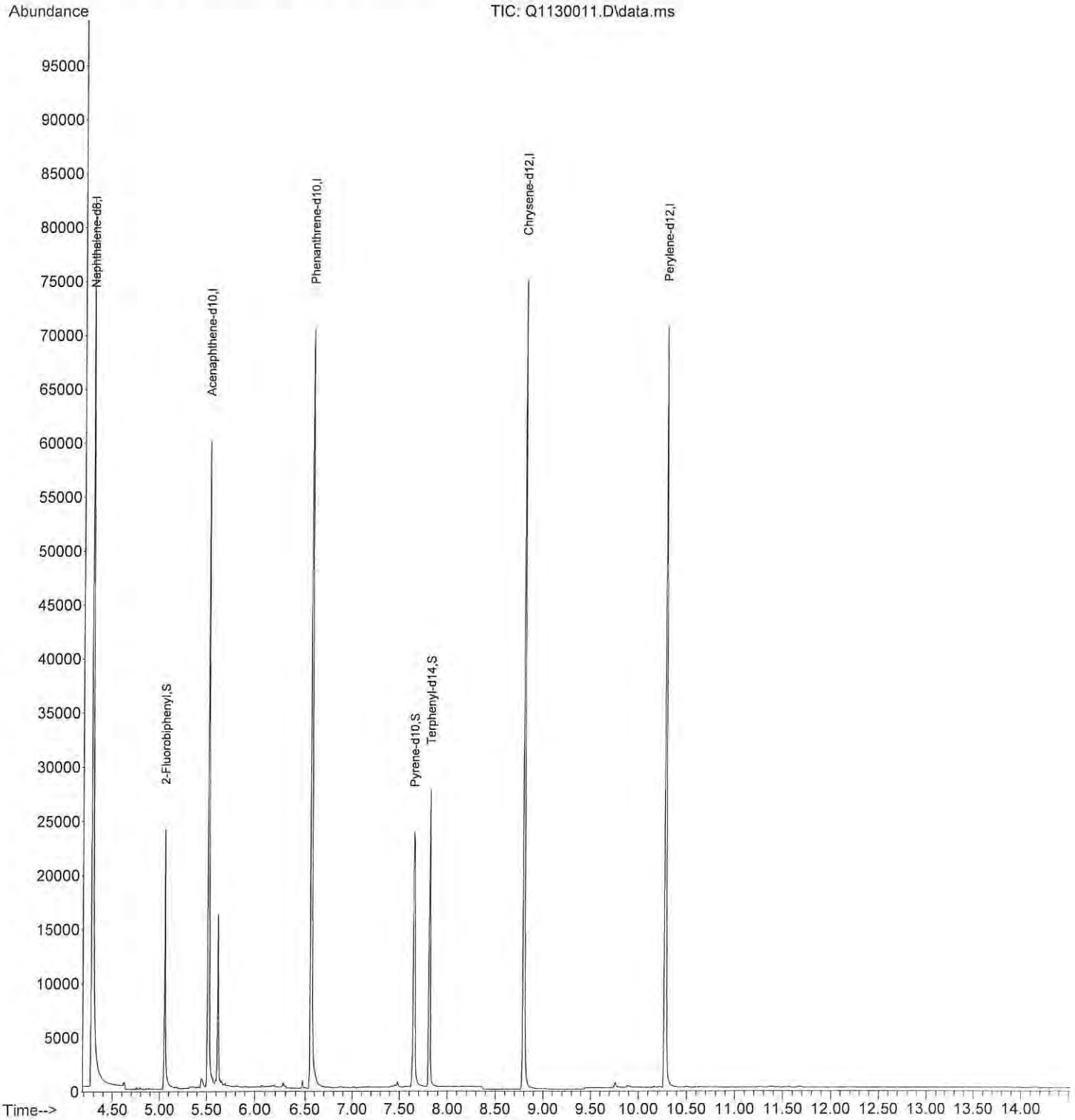
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	95431	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	49275	2000.00	ppb	-0.09
9) Phenanthrene-d10	6.566	188	85145	2000.00	ppb	-0.06
17) Chrysene-d12	8.796	240	73166	2000.00	ppb	-0.08
21) Perylene-d12	10.277	264	74606	2000.00	ppb	-0.10
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	21360	686.38	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 68.64%			
10) Pyrene-d10	7.642	212	28712	762.09	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.21%			
18) Terphenyl-d14	7.815	244	24313	930.46	ppb	-0.05
Spiked Amount 1000.000	Range 39 - 92		Recovery = 93.05%#			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.790	228	397	Below Cal		83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/1/23

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130011.D
Acq On : 30 Nov 2023 3:54 pm
Operator : JP
Sample : 11-272-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 30 16:09:30 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130008.D
Acq On : 30 Nov 2023 2:47 pm
Operator : JP
Sample : 11-272-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 15:01:47 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

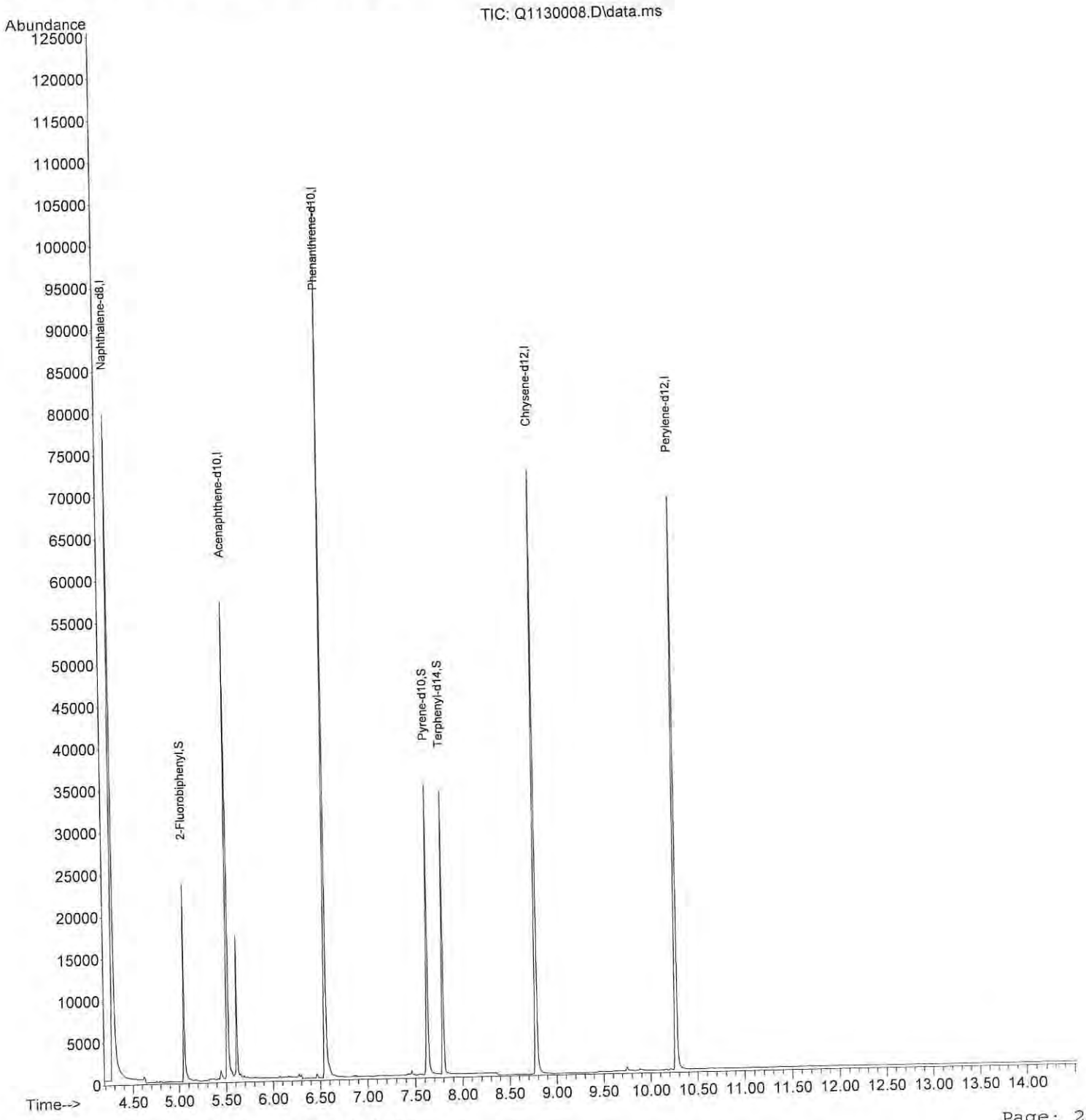
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	95413	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	48741	2000.00	ppb	-0.09
9) Phenanthrene-d10	6.557	188	87082	2000.00	ppb	-0.07
17) Chrysene-d12	8.785	240	72162	2000.00	ppb	-0.09
21) Perylene-d12	10.271	264	73228	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	21054	683.93	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 68.39%			
10) Pyrene-d10	7.633	212	29374	762.32	ppb	-0.07
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.23%			
18) Terphenyl-d14	7.796	244	24552	952.88	ppb	-0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 95.29%#			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.779	228	391	Below Cal		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130008.D
Acq On : 30 Nov 2023 2:47 pm
Operator : JP
Sample : 11-272-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 15:01:47 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Q231115P.M Fri Dec 01 12:24:59 2023

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130012.D
Acq On : 30 Nov 2023 4:17 pm
Operator : JP
Sample : 11-272-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 30 16:32:13 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	95252	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	50028	2000.00	ppb	-0.09
9) Phenanthrene-d10	6.557	188	90698	2000.00	ppb	-0.07
17) Chrysene-d12	8.785	240	73529	2000.00	ppb	-0.09
21) Perylene-d12	10.271	264	76478	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	23027	729.21	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 72.92%			
10) Pyrene-d10	7.633	212	31032	773.24	ppb	-0.07
Spiked Amount 1000.000	Range 40 - 110		Recovery = 77.32%			
18) Terphenyl-d14	7.806	244	26887	1024.73	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 102.47%#			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.785	228	301	Below Cal		69

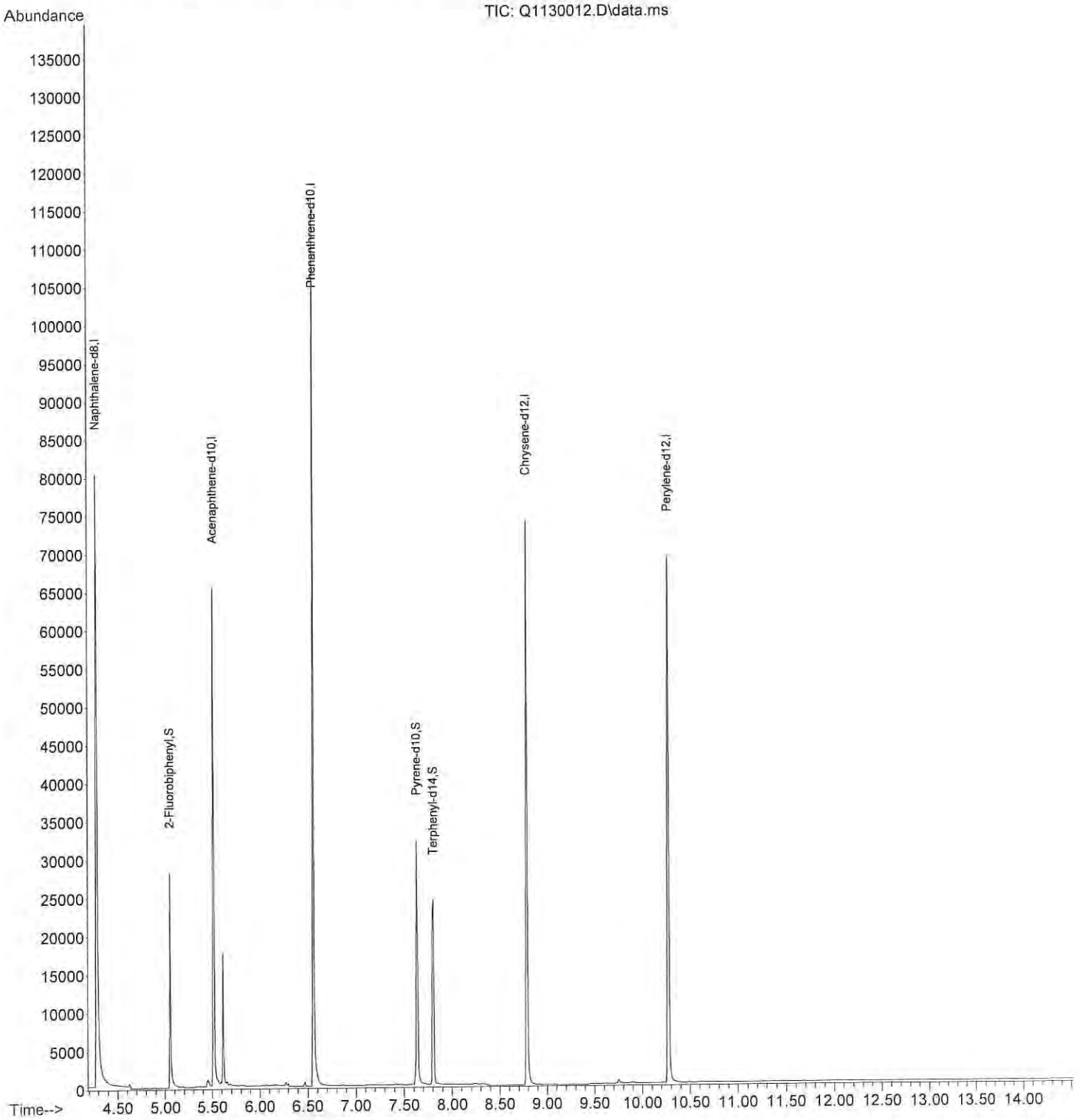
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
12/1/23

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130012.D
Acq On : 30 Nov 2023 4:17 pm
Operator : JP
Sample : 11-272-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 30 16:32:13 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130009.D
Acq On : 30 Nov 2023 3:09 pm
Operator : JP
Sample : 11-272-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 12:44:13 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	96437	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	46975	2000.00	ppb	-0.09
9) Phenanthrene-d10	6.557	188	83959	2000.00	ppb	-0.07
17) Chrysene-d12	8.785	240	69304	2000.00	ppb	-0.09
21) Perylene-d12	10.271	264	69815	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	13691	459.32	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 45.93%			
10) Pyrene-d10	7.633	212	17321	466.24	ppb	-0.07
Spiked Amount 1000.000	Range 40 - 110		Recovery = 46.62%			
18) Terphenyl-d14	7.796	244	15989	643.41	ppb	-0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 64.34%			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.779	228	284	Below Cal	#	47

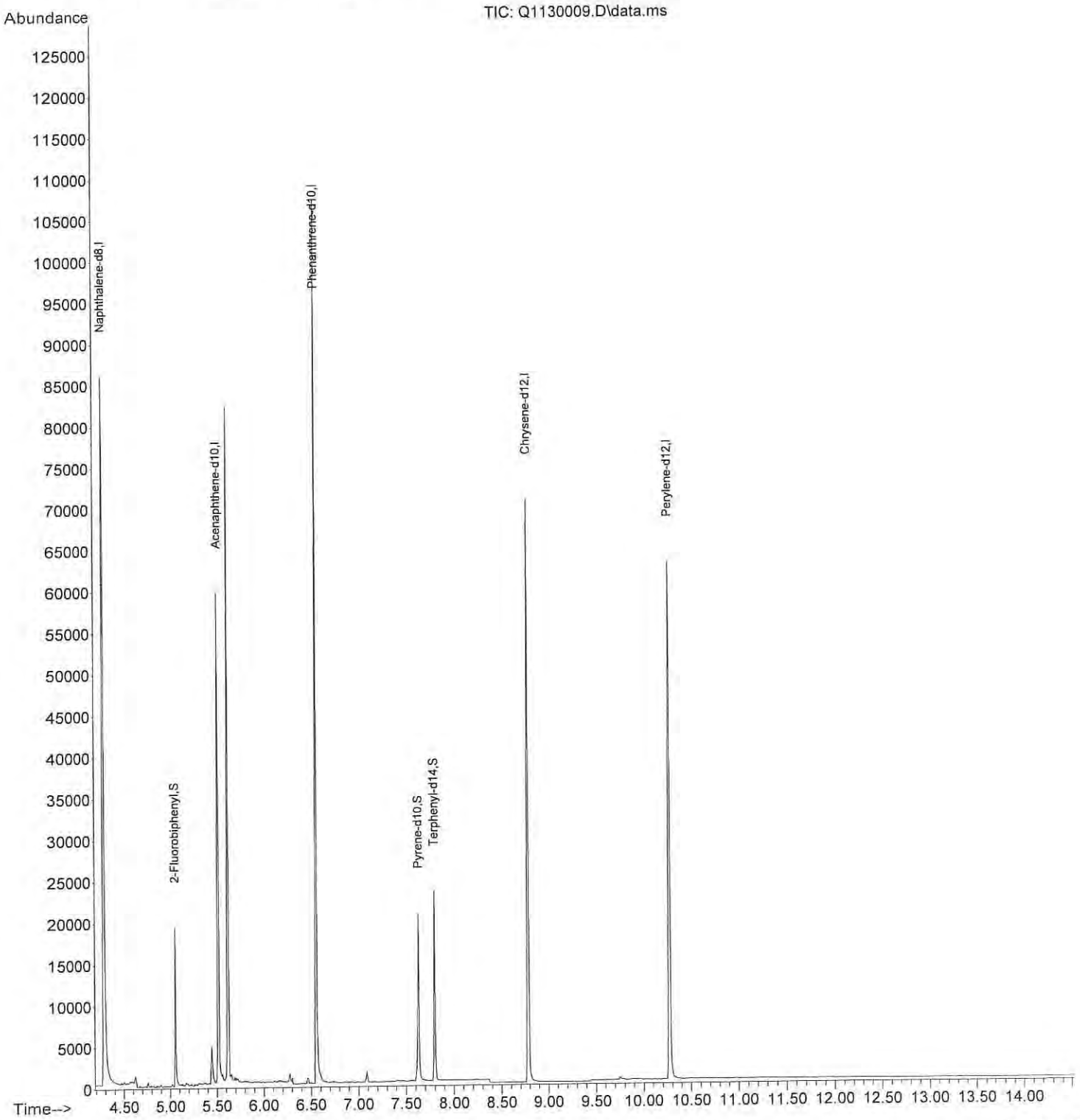
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 12/1/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130009.D
Acq On : 30 Nov 2023 3:09 pm
Operator : JP
Sample : 11-272-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 01 12:44:13 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130010.D
Acq On : 30 Nov 2023 3:32 pm
Operator : JP
Sample : 11-272-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:46:57 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	96855	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	50226	2000.00	ppb	-0.08
9) Phenanthrene-d10	6.557	188	92661	2000.00	ppb	-0.07
17) Chrysene-d12	8.785	240	73841	2000.00	ppb	-0.09
21) Perylene-d12	10.277	264	76674	2000.00	ppb	-0.10
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	14215	445.84	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 44.58%			
10) Pyrene-d10	7.633	212	20105	490.36	ppb	-0.07
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.04%			
18) Terphenyl-d14	7.796	244	15835	597.46	ppb	-0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 59.75%			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.785	228	404	Below Cal		82

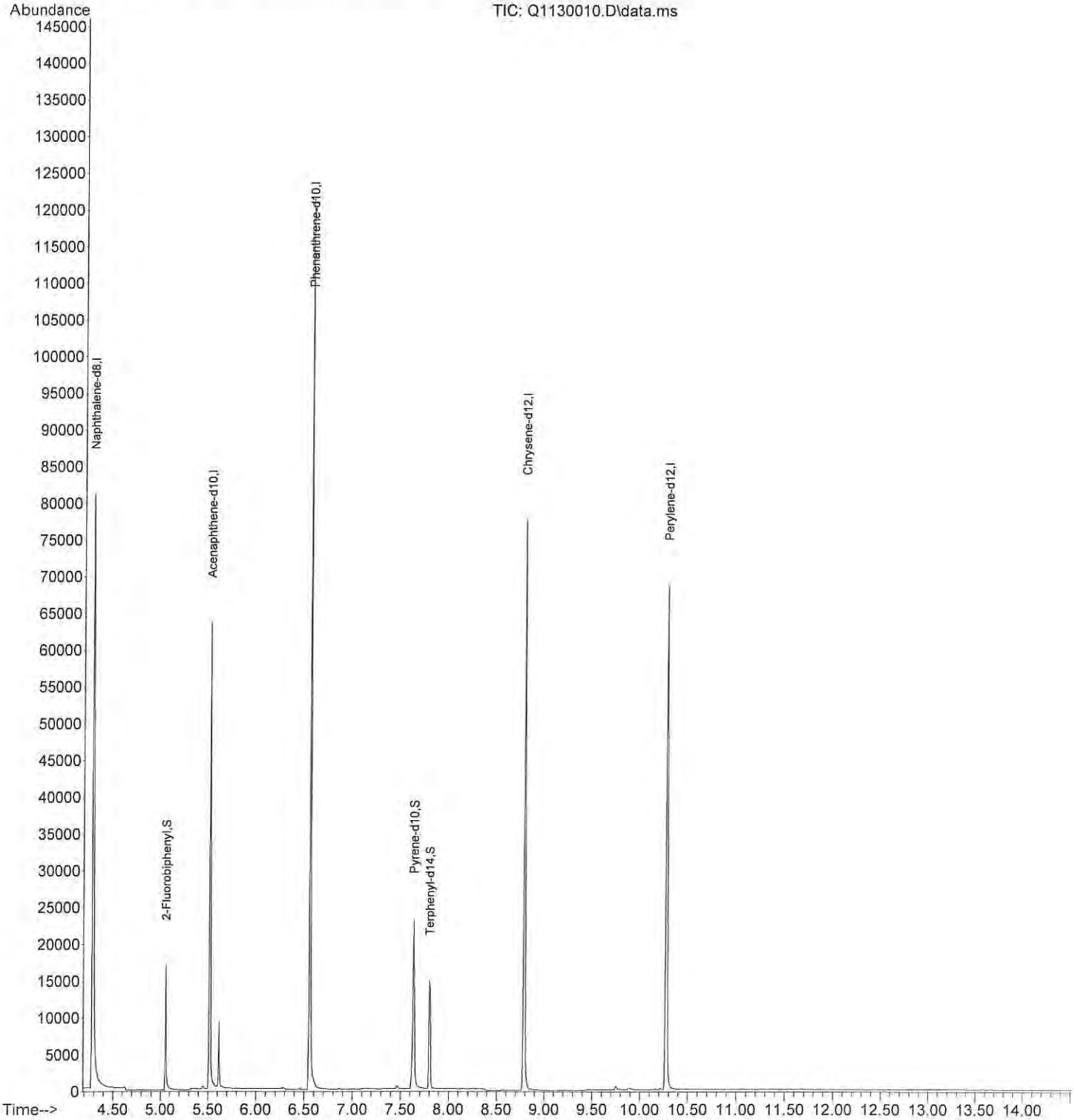
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/1/23

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130010.D
Acq On : 30 Nov 2023 3:32 pm
Operator : JP
Sample : 11-272-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 30 15:46:57 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130007.D
Acq On : 30 Nov 2023 2:24 pm
Operator : JP
Sample : MB1130W1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 14:39:14 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	95102	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.514	164	48844	2000.00	ppb	-0.08
9) Phenanthrene-d10	6.557	188	88550	2000.00	ppb	-0.07
17) Chrysene-d12	8.791	240	72735	2000.00	ppb	-0.08
21) Perylene-d12	10.277	264	75322	2000.00	ppb	-0.10
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	22829	740.57	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 74.06%			
10) Pyrene-d10	7.643	212	30618	781.43	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 78.14%			
18) Terphenyl-d14	7.806	244	27308	1052.37	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 105.24%#			
Target Compounds						Qvalue
19) Benzo[a]anthracene	8.785	228	293	Below Cal		73

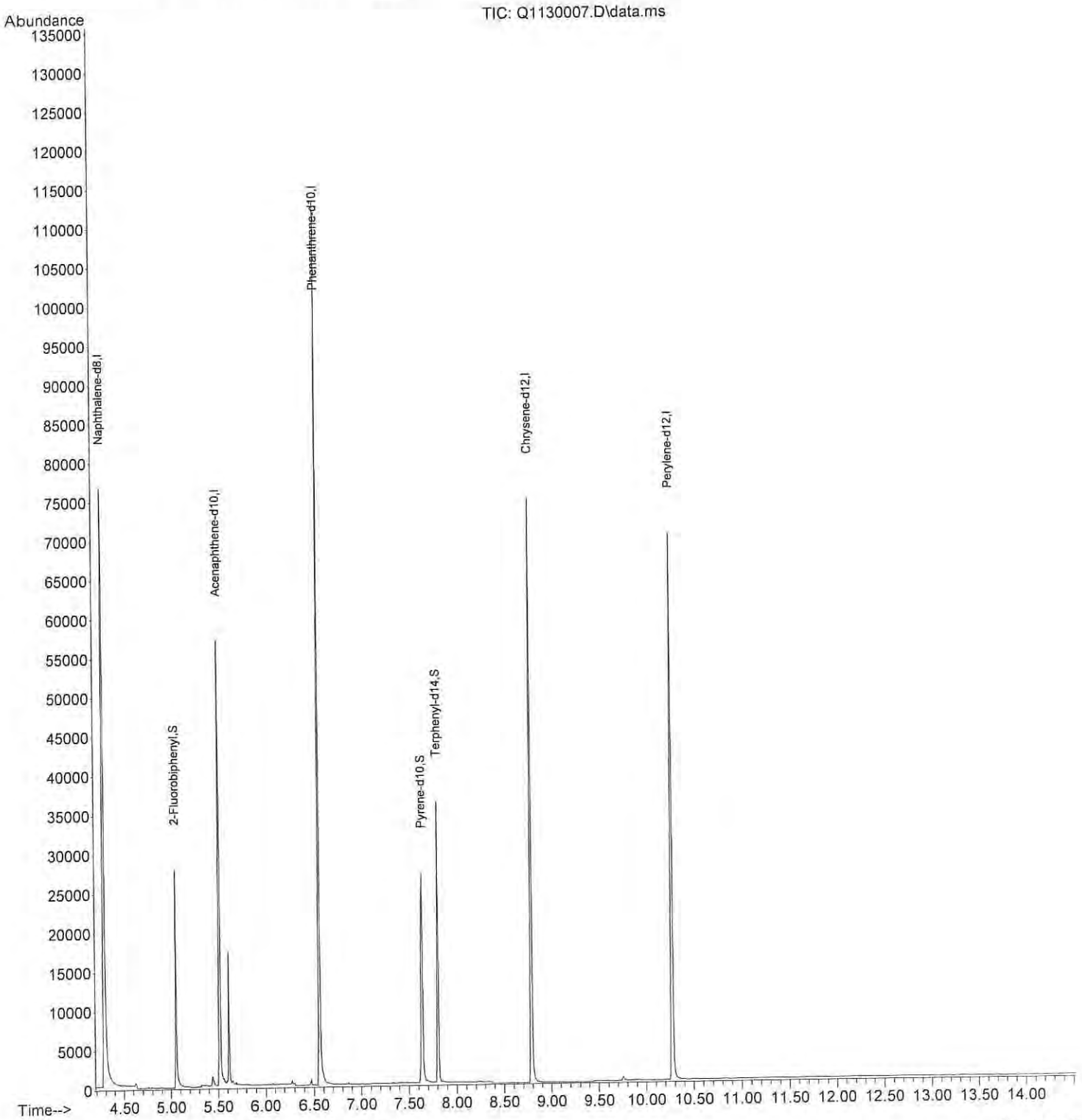
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/1/23

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130007.D
Acq On : 30 Nov 2023 2:24 pm
Operator : JP
Sample : MB1130W1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 14:39:14 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201003.D
Acq On : 1 Dec 2023 11:08 am
Operator : JP
Sample : SB1130W1 REX
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 01 11:24:14 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	90266	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.519	164	47377	2000.00	ppb	-0.08
9) Phenanthrene-d10	6.555	188	83433	2000.00	ppb	-0.07
17) Chrysene-d12	8.789	240	72175	2000.00	ppb	-0.08
21) Perylene-d12	10.275	264	75514	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	18975	633.66	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 63.37%			
10) Pyrene-d10	7.641	212	25232	683.47	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 68.35%			
18) Terphenyl-d14	7.804	244	20317	786.91	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.69%			
Target Compounds						Qvalue
2) Naphthalene	4.295	128	14559	323.85	ppb	99
3) 2-Methylnaphthalene	4.793	142	7173	300.87	ppb	100
4) 1-Methylnaphthalene	4.862	142	10348	373.13	ppb	98
7) Acenaphthylene	5.411	152	16692	385.93	ppb	100
8) Acenaphthene	5.535	153	10141	375.57	ppb	100
11) Fluorene	5.897	166	11793	418.67	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.574	178	16611	392.46	ppb	97
14) Anthracene	6.612	178	19014	453.38	ppb	98
15) Fluoranthene	7.468	202	20666	407.22	ppb	95
16) Pyrene	7.660	202	21192	417.29	ppb	98
19) Benzo[a]anthracene	8.777	228	18830	436.69	ppb	97
20) Chrysene	8.812	228	19811	422.33	ppb	99
22) Benzo[b]fluoranthene	9.886	252	21135	405.56	ppb	93
23) Benzo(j,k)fluoranthene	9.915	252	21093	436.69	ppb	86
24) Benzo[a]pyrene	10.217	252	17921	413.34	ppb	89
25) Indeno(1,2,3-c,d)pyrene	11.370	276	17125m	380.86	ppb	
26) Dibenz[a,h]anthracene	11.401	278	18945	404.56	ppb	88
27) Benzo[g,h,i]perylene	11.671	276	18671	390.22	ppb	83

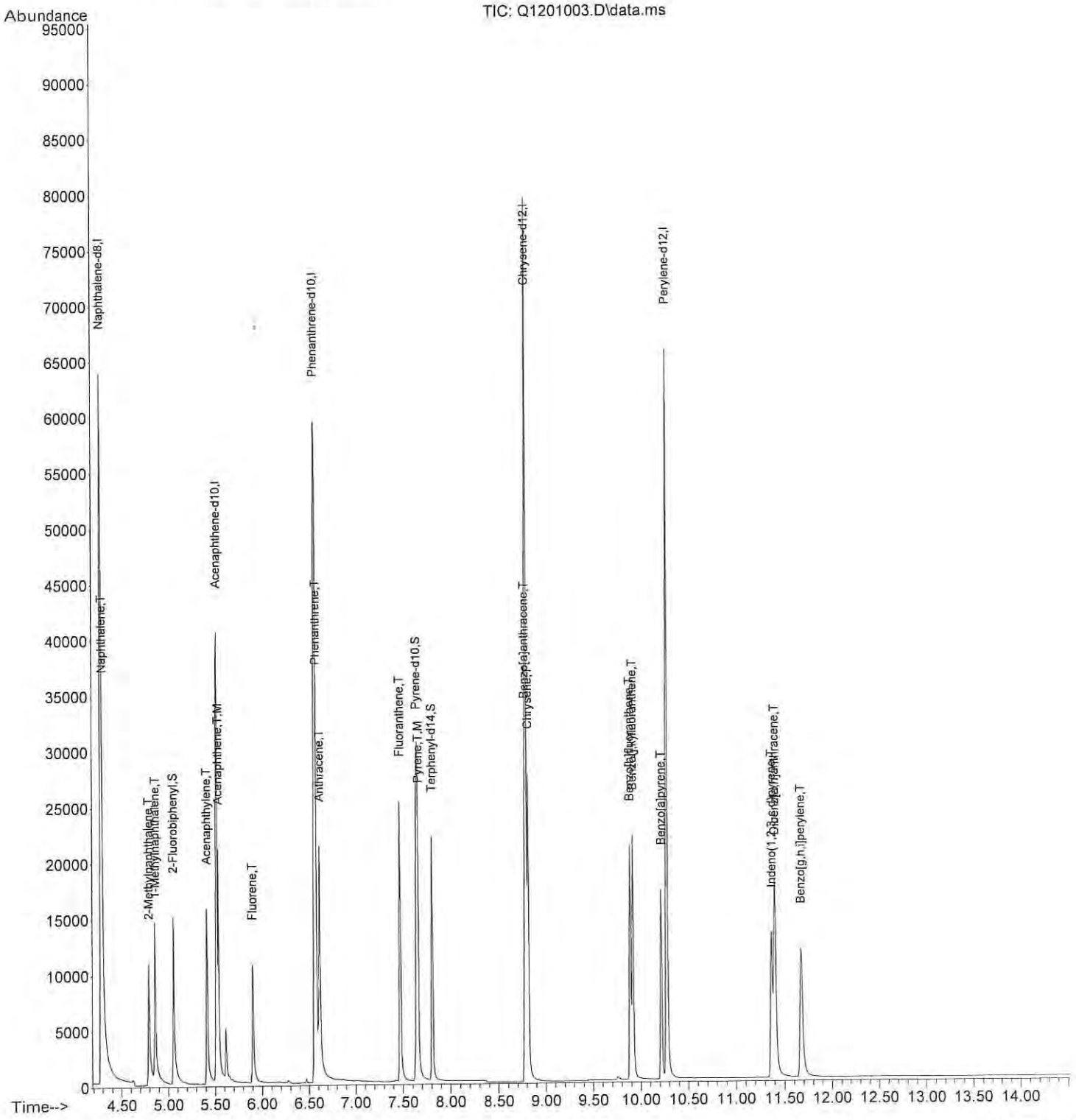
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/12/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201003.D
Acq On : 1 Dec 2023 11:08 am
Operator : JP
Sample : SB1130W1 REX
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 01 11:24:14 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201004.D
Acq On : 1 Dec 2023 11:31 am
Operator : JP
Sample : SB1130W1 DUP REX
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 01 11:50:02 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.280	136	95049	2000.00	ppb	-0.09
5) Acenaphthene-d10	5.513	164	50148	2000.00	ppb	-0.09
9) Phenanthrene-d10	6.557	188	89694	2000.00	ppb	-0.07
17) Chrysene-d12	8.785	240	74923	2000.00	ppb	-0.09
21) Perylene-d12	10.271	264	78519	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	19589	617.86	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 61.79%			
10) Pyrene-d10	7.633	212	26201	660.17	ppb	-0.07
Spiked Amount 1000.000	Range 40 - 110		Recovery = 66.02%			
18) Terphenyl-d14	7.796	244	20935	781.04	ppb	-0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.10%			
Target Compounds						Qvalue
2) Naphthalene	4.295	128	15820	334.19	ppb	98
3) 2-Methylnaphthalene	4.793	142	7786	310.15	ppb	99
4) 1-Methylnaphthalene	4.857	142	11025	377.54	ppb	97
7) Acenaphthylene	5.413	152	17974	392.61	ppb	100
8) Acenaphthene	5.537	153	10405	364.06	ppb	100
11) Fluorene	5.899	166	12813	423.13	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.566	178	16887	371.13	ppb	100
14) Anthracene	6.614	178	18904	419.29	ppb	99
15) Fluoranthene	7.460	202	21597	395.86	ppb	96
16) Pyrene	7.642	202	21991	402.79	ppb	97
19) Benzo[a]anthracene	8.773	228	19067	425.73	ppb	100
20) Chrysene	8.808	228	21051	432.30	ppb	100
22) Benzo[b]fluoranthene	9.882	252	21959	405.25	ppb	92
23) Benzo(j,k)fluoranthene	9.911	252	21803	434.11	ppb	86
24) Benzo[a]pyrene	10.213	252	18753	415.98	ppb	89
25) Indeno(1,2,3-c,d)pyrene	11.365	276	17350m	371.10	ppb	
26) Dibenz[a,h]anthracene	11.403	278	19778	406.18	ppb	88
27) Benzo[g,h,i]perylene	11.673	276	19310	388.13	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

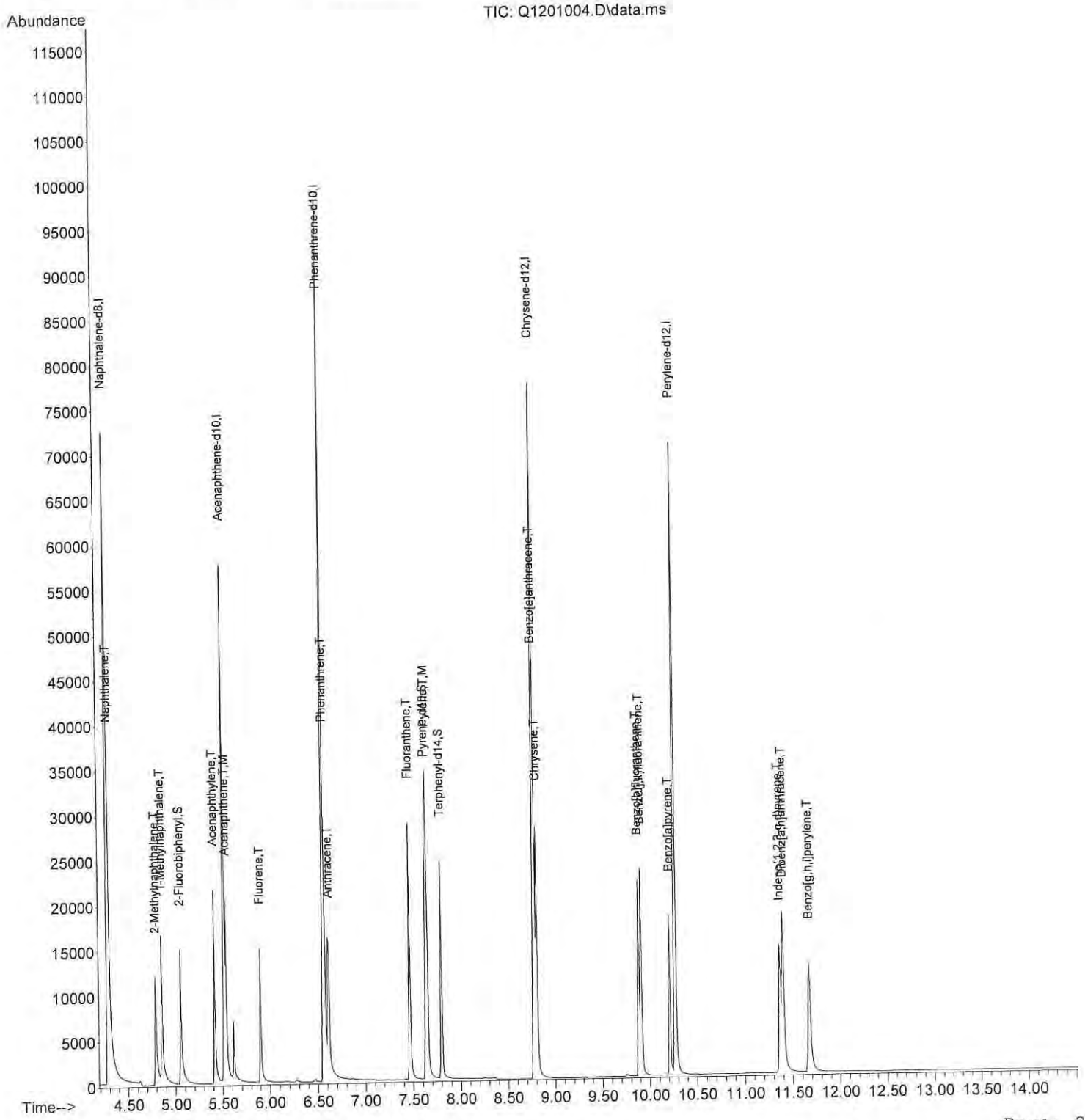
JP 12/1/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201004.D
Acq On : 1 Dec 2023 11:31 am
Operator : JP
Sample : SB1130W1 DUP REX
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 01 11:50:02 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

TIC: Q1201004.D\data.ms



Q231115P.M Fri Dec 01 12:25:51 2023

Response Factor Report quaggy

Method Path : C:\msdchem\1\methods\
Method File : Q231115P.M
Title : PAH'S BY SIMS
Last Update : Mon Dec 04 11:24:45 2023
Response Via : Initial Calibration

Calibration Files
10 =Q1115017.D 20 =Q1115007.D 50 =Q1115008.D 100 =Q1115009.D 200 =Q1115010.D 500 =Q1204001.D 1000=Q1115012.D
5000=Q1115013.D

		Compound	10	20	50	100	200	500	1000	5000	Avg	%RSD
1)	I	Naphthalene-d8	----------ISTD----------									
2)	T	Naphthalene	1.112	1.082	0.997	0.992	0.962	0.969	0.945	0.911	0.996	6.84
3)	T	2-Methylnaphth...	0.504	0.550	0.513	0.519	0.516	0.540	0.539	0.544	0.528	3.21
4)	T	1-Methylnaphth...	0.654	0.635	0.631	0.636	0.603	0.611	0.601	0.544	0.614	5.52
5)	I	Acenaphthene-d10	----------ISTD----------									
6)	S	2-Fluorobiphenyl	1.755	2.165	1.294	1.278	1.267	1.294	1.258	1.252	1.446	23.27
7)	T	Acenaphthylene	1.980	1.876	1.805	1.823	1.768	1.826	1.790	1.738	1.826	4.10
8)	T,M	Acenaphthene	1.258	1.160	1.131	1.135	1.114	1.132	1.099	1.090	1.140	4.61
9)	I	Phenanthrene-d10	----------ISTD----------									
10)	S	Pyrene-d10	1.073	0.886	0.904	0.882	0.840	0.870	0.866	0.758	0.885	9.96
11)	T	Fluorene	0.705	0.700	0.687	0.689	0.640	0.661	0.667	0.653	0.675	3.48
12)	T	Pentachlorophenol									0.000#	-1.00
13)	T	Phenanthrene	1.142	1.072	1.043	1.040	0.943	0.979	0.976	0.921	1.015	7.22
14)	T	Anthracene	1.137	0.985	1.026	1.030	0.987	1.007	0.987	0.883	1.005	6.97
15)	T	Fluoranthene	1.396	1.232	1.242	1.243	1.161	1.184	1.203	1.070	1.217	7.58
16)	T,M	Pyrene	1.448	1.245	1.229	1.230	1.163	1.193	1.206	1.025	1.217	9.57
17)	I	Chrysene-d12	----------ISTD----------									
18)	S	Terphenyl-d14		1.021	0.765	0.747	0.750	0.755	0.747	0.699	0.783	13.66
19)	T	Benzo[a]anthra...	2.235	1.649	1.382	1.315	1.239	1.242	1.223	1.157	1.430	25.07
20)	T	Chrysene	1.598	1.310	1.287	1.266	1.257	1.273	1.237	1.170	1.300	9.80
21)	I	Perylene-d12	----------ISTD----------									
22)	T	Benzo[b]fluora...	1.699	1.367	1.364	1.389	1.244	1.269	1.352	1.357	1.380	10.04
23)	T	Benzo(j,k)fluo...	1.538	1.308	1.217	1.189	1.306	1.337	1.198	1.142	1.279	9.77
24)	T	Benzo[a]pyrene	1.390	1.136	1.107	1.116	1.105	1.130	1.116	1.087	1.148	8.61
25)	T	Indeno(1,2,3-c...	1.347	1.172	1.147	1.181	1.169	1.150	1.199	1.161	1.191	5.47
26)	T	Dibenz[a,h]ant...	1.502	1.222	1.202	1.206	1.201	1.231	1.207	1.151	1.240	8.74
27)	T	Benzo[g,h,i]pe...	1.569	1.266	1.229	1.229	1.219	1.253	1.226	1.146	1.267	10.02

(#) = Out of Range

Compound List Report quaggy

Method Path : C:\msdchem\1\methods\
Method File : Q231115P.M
Title : PAH'S BY SIMS
Last Update : Mon Dec 04 11:24:45 2023
Response Via : Initial Calibration

Total Cpnds : 27

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	4.203	1.000	A	0	A	R
2	T	Naphthalene	128	4.218	1.004	A	1	A	R
3	T	2-Methylnaphthalene	142	4.714	1.122	A	1	A	R
4	T	1-Methylnaphthalene	142	4.778	1.137	A	1	A	R
5	I	Acenaphthene-d10	164	5.435	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	4.976	0.916	L	0	A	R
7	T	Acenaphthylene	152	5.334	0.982	A	0	A	R
8	T	Acenaphthene	153	5.458	1.004	A	0	A	R
9	I	Phenanthrene-d10	188	6.460	1.000	A	0	A	R
10	S	Pyrene-d10	212	7.517	1.164	A	0	A	R
11	T	Fluorene	166	5.820	0.901	A	0	A	R
12	T	Pentachlorophenol	266	5.268	0.815	L	1	A	B
13	T	Phenanthrene	178	6.480	1.003	A	1	A	R
14	T	Anthracene	178	6.508	1.007	A	1	A	R
15	T	Fluoranthene	202	7.344	1.137	A	1	A	R
16	T	Pyrene	202	7.527	1.165	A	1	A	R
17	I	Chrysene-d12	240	8.652	1.000	A	0	A	R
18	S	Terphenyl-d14	244	7.681	0.888	L	0	A	R
19	T	Benzo[a]anthracene	228	8.641	0.999	L	1	A	R
20	T	Chrysene	228	8.675	1.003	A	1	A	R
21	I	Perylene-d12	264	10.127	1.000	A	0	A	R
22	T	Benzo[b]fluoranthene	252	9.738	0.962	A	1	A	R
23	T	Benzo(j,k)fluoranthene	252	9.767	0.964	A	1	A	R
24	T	Benzo[a]pyrene	252	10.063	0.994	A	1	A	R
25	T	Indeno(1,2,3-c,d)pyrene	276	11.178	1.104	A	1	A	R
26	T	Dibenz[a,h]anthracene	278	11.216	1.108	A	1	A	R
27	T	Benzo[g,h,i]perylene	276	11.471	1.133	A	1	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115017.D
Acq On : 15 Nov 2023 3:04 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-131-18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 16 10:56:47 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	124516	2000.00	ppb	0.00
5) Acenaphthene-d10	5.596	164	63119	2000.00	ppb	0.00
9) Phenanthrene-d10	6.632	188	115751	2000.00	ppb	0.00
17) Chrysene-d12	8.881	240	93870	2000.00	ppb	0.00
21) Perylene-d12	10.385	264	101587	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	464m	5.88	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 0.59%#			
10) Pyrene-d10	7.708	212	621	12.12	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 1.21%#			
18) Terphenyl-d14	7.881	244	587	9.20	ppb	0.02
Spiked Amount 1000.000	Range 39 - 92		Recovery = 0.92%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	692	11.16	ppb	92
3) 2-Methylnaphthalene	4.874	142	314	9.55	ppb	100
4) 1-Methylnaphthalene	4.943	142	375	9.80	ppb	94
7) Acenaphthylene	5.496	152	625	10.85	ppb	100
8) Acenaphthene	5.619	153	397	11.04	ppb	100
11) Fluorene	5.981	166	408	10.44	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.641	178	661	11.26	ppb	97
14) Anthracene	6.680	178	658	11.31	ppb	98
15) Fluoranthene	7.535	202	808	11.48	ppb	87
16) Pyrene	7.727	202	838	11.89	ppb	99
19) Benzo[a]anthracene	8.870	228	1049	9.63	ppb	90
20) Chrysene	8.904	228	750	12.29	ppb	99
22) Benzo[b]fluoranthene	9.990	252	863	12.31	ppb	88
23) Benzo(j,k)fluoranthene	10.019	252	781	12.02	ppb	83
24) Benzo[a]pyrene	10.321	252	706	12.10	ppb	84
25) Indeno(1,2,3-c,d)pyrene	11.509	276	673m	11.13	ppb	
26) Dibenz[a,h]anthracene	11.548	278	763	12.11	ppb	83
27) Benzo[g,h,i]perylene	11.833	276	797	12.38	ppb	79

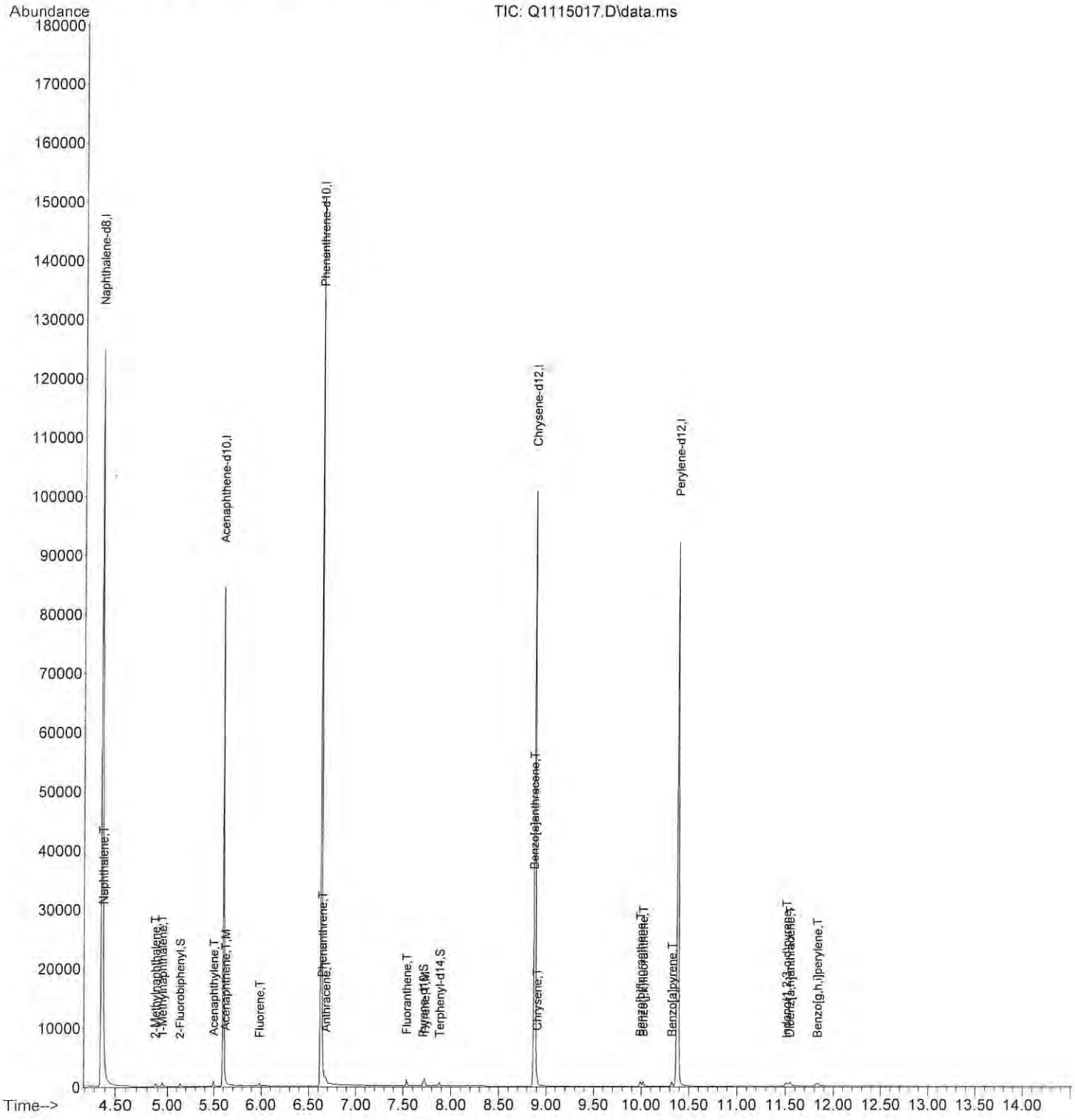
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115017.D
Acq On : 15 Nov 2023 3:04 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-131-18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 16 10:56:47 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115007.D
Acq On : 15 Nov 2023 10:53 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-131-17
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 10:58:32 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	121015	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	63688	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	111121	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	91146	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	96923	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	1230m	25.00	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	2.50%#		
10) Pyrene-d10	7.700	212	985	20.03	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	2.00%#		
18) Terphenyl-d14	7.863	244	931	20.39	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	2.04%#		
Target Compounds						Qvalue
2) Naphthalene	4.380	128	1309	21.72	ppb	99
3) 2-Methylnaphthalene	4.874	142	666	20.84	ppb	99
4) 1-Methylnaphthalene	4.944	142	771	20.74	ppb	100
7) Acenaphthylene	5.498	152	1195	20.55	ppb	100
8) Acenaphthene	5.621	153	739	20.36	ppb	100
11) Fluorene	5.983	166	778	20.74	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	1191	21.13	ppb	96
14) Anthracene	6.672	178	1095	19.60	ppb	98
15) Fluoranthene	7.527	202	1369	20.25	ppb	86
16) Pyrene	7.719	202	1383	20.45	ppb	98
19) Benzo[a]anthracene	8.860	228	1503	18.72	ppb	94
20) Chrysene	8.895	228	1194	20.16	ppb	100
22) Benzo[b]fluoranthene	9.986	252	1325	19.81	ppb	86
23) Benzo(j,k)fluoranthene	10.015	252	1268	20.45	ppb	86
24) Benzo[a]pyrene	10.317	252	1101	19.78	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	1153m	19.98	ppb	
26) Dibenz[a,h]anthracene	11.550	278	1184	19.70	ppb	81
27) Benzo[g,h,i]perylene	11.827	276	1227	19.98	ppb	78

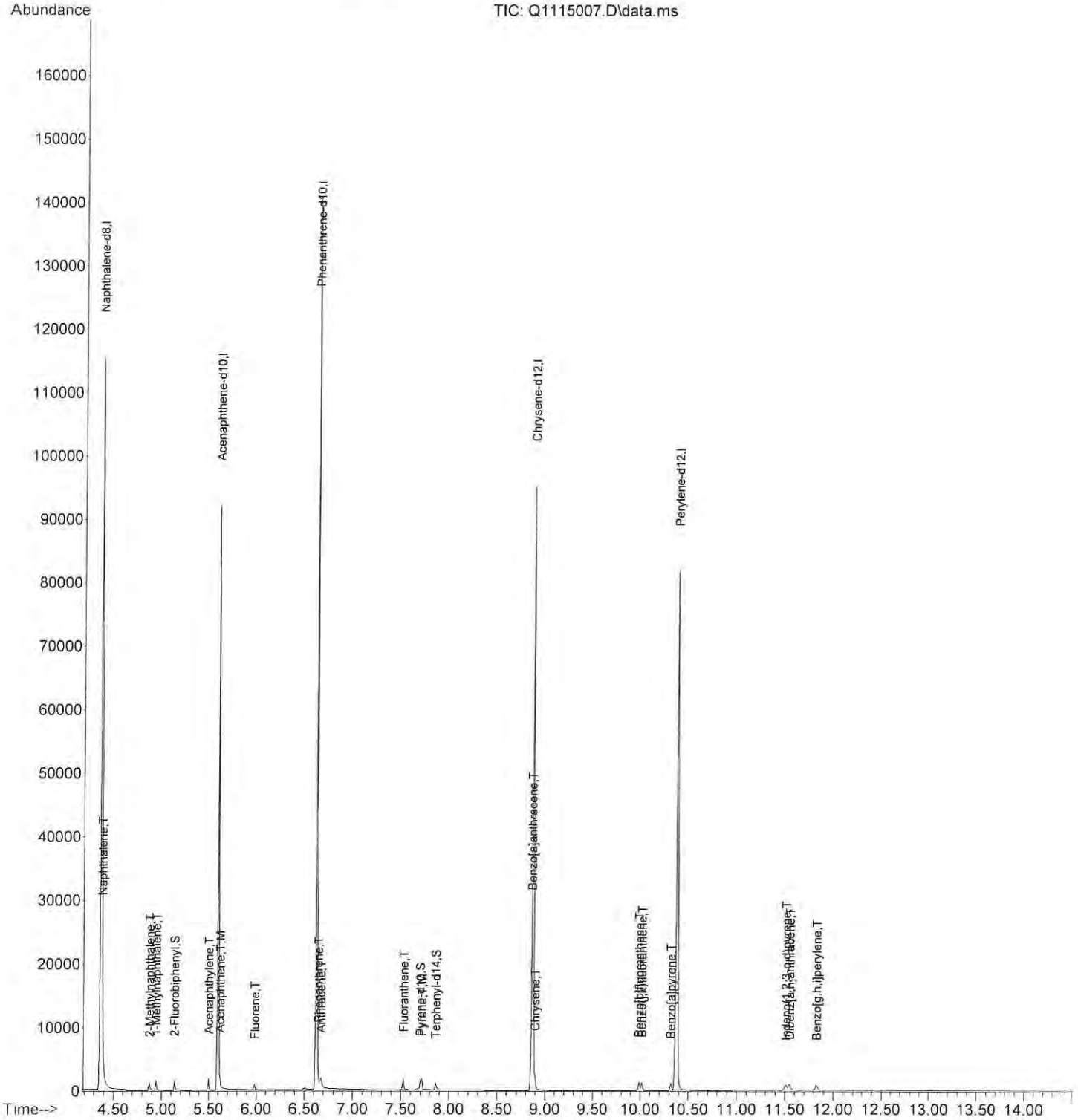
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115007.D
Acq On : 15 Nov 2023 10:53 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-131-17
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 10:58:32 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115008.D
Acq On : 15 Nov 2023 11:16 am
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-131-16
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 16 10:59:34 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	122068	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	63782	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	107598	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	91025	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	97816	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	2082m	46.31	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 4.63%#			
10) Pyrene-d10	7.700	212	2433	51.10	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 5.11%#			
18) Terphenyl-d14	7.863	244	1740	45.54	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 4.55%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	3043	50.05	ppb	99
3) 2-Methylnaphthalene	4.874	142	1564	48.51	ppb	98
4) 1-Methylnaphthalene	4.944	142	1877	50.05	ppb	97
7) Acenaphthylene	5.498	152	2878	49.43	ppb	100
8) Acenaphthene	5.621	153	1803	49.60	ppb	100
11) Fluorene	5.983	166	1848	50.87	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	2806	51.41	ppb	95
14) Anthracene	6.682	178	2761	51.05	ppb	99
15) Fluoranthene	7.527	202	3342	51.06	ppb	91
16) Pyrene	7.710	202	3307	50.49	ppb	100
19) Benzo[a]anthracene	8.860	228	3146	49.62	ppb	97
20) Chrysene	8.895	228	2929	49.51	ppb	100
22) Benzo[b]fluoranthene	9.986	252	3336	49.42	ppb	89
23) Benzo(j,k)fluoranthene	10.015	252	2975	47.55	ppb	83
24) Benzo[a]pyrene	10.317	252	2706	48.18	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	2798m	48.04	ppb	
26) Dibenz[a,h]anthracene	11.550	278	2939	48.45	ppb	82
27) Benzo[g,h,i]perylene	11.827	276	3006	48.50	ppb	77

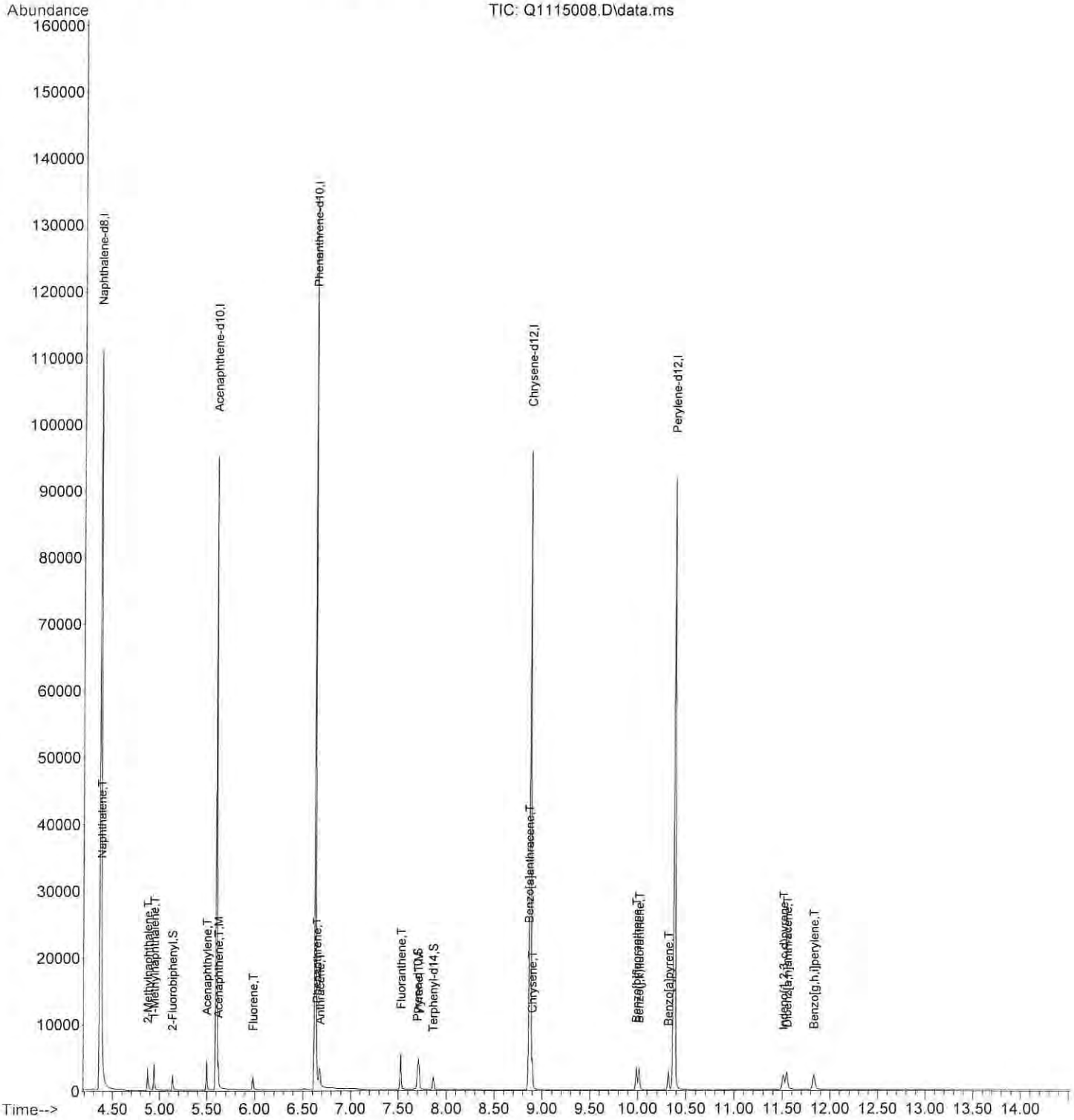
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115008.D
Acq On : 15 Nov 2023 11:16 am
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-131-16
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 16 10:59:34 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115009.D
Acq On : 15 Nov 2023 11:38 am
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-131-15
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 16 11:00:41 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	123003	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	63802	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	108746	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	92818	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	99300	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	4115m	97.24	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 9.72%#			
10) Pyrene-d10	7.700	212	4793	99.61	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 9.96%#			
18) Terphenyl-d14	7.863	244	3467	97.07	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 9.71%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	7209	117.68	ppb	95
3) 2-Methylnaphthalene	4.874	142	3195	98.35	ppb	98
4) 1-Methylnaphthalene	4.944	142	3761	99.52	ppb	96
7) Acenaphthylene	5.498	152	5815	99.83	ppb	100
8) Acenaphthene	5.621	153	3621	99.58	ppb	100
11) Fluorene	5.983	166	3748	102.09	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	5655	102.51	ppb	95
14) Anthracene	6.672	178	5598	102.41	ppb	99
15) Fluoranthene	7.527	202	6757	102.15	ppb	90
16) Pyrene	7.710	202	6686	101.01	ppb	98
19) Benzo[a]anthracene	8.860	228	6103	102.96	ppb	99
20) Chrysene	8.895	228	5877	97.42	ppb	100
22) Benzo[b]fluoranthene	9.986	252	6898	100.66	ppb	90
23) Benzo(j,k)fluoranthene	10.015	252	5905	92.97	ppb	83
24) Benzo[a]pyrene	10.317	252	5541	97.19	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	6006m	101.58	ppb	
26) Dibenz[a,h]anthracene	11.542	278	5987	97.22	ppb	83
27) Benzo[g,h,i]perylene	11.827	276	6104	97.01	ppb	77

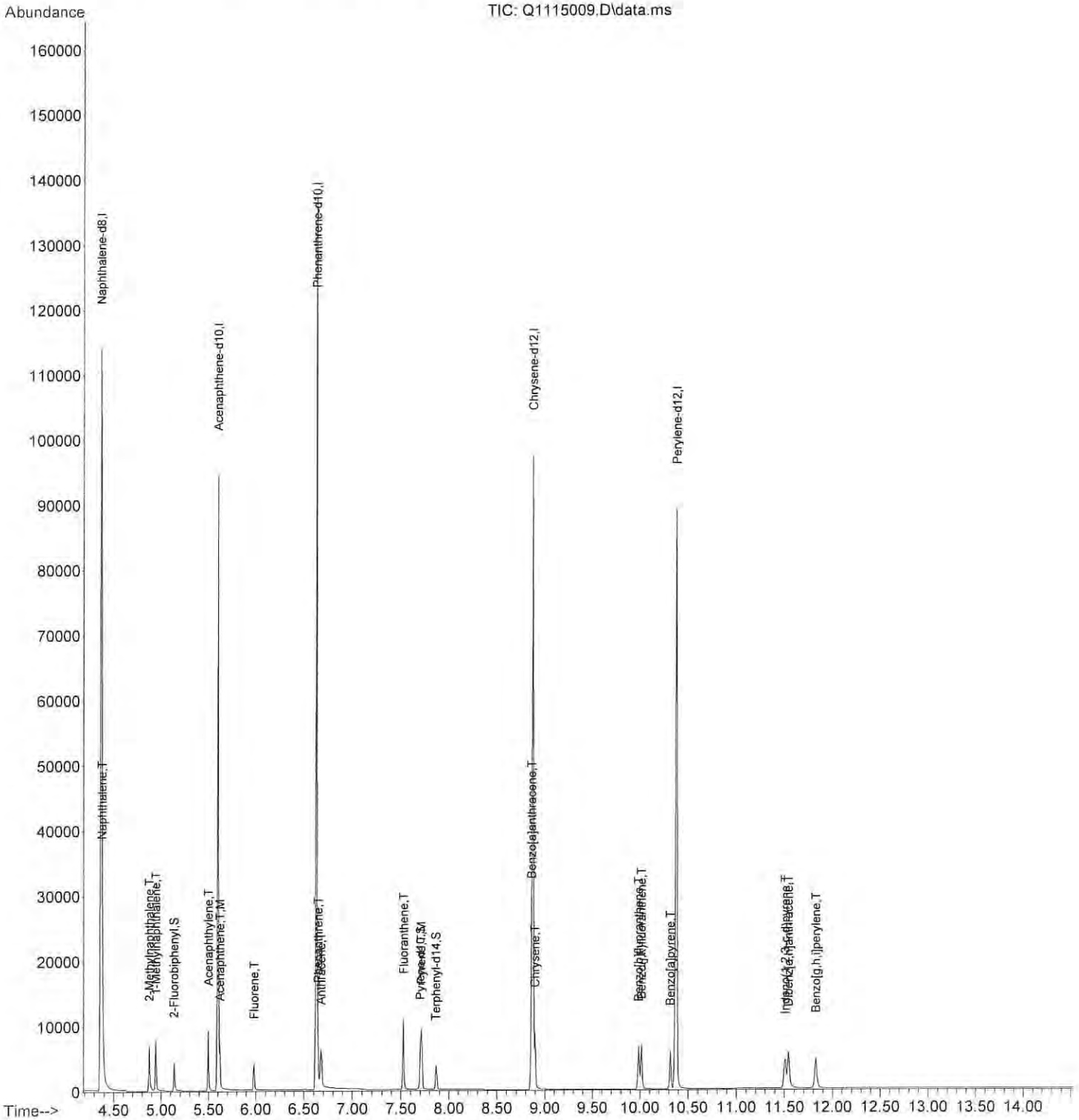
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD
8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115009.D
Acq On : 15 Nov 2023 11:38 am
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-131-15
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 16 11:00:41 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115010.D
Acq On : 15 Nov 2023 12:01 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-131-14
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 16 11:01:07 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	123533	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	64490	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	112712	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	93185	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	99881	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	8051m	193.71	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 19.37%#			
10) Pyrene-d10	7.700	212	9467	189.82	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 18.98%#			
18) Terphenyl-d14	7.863	244	6985	203.33	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 20.33%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	12098m	196.64	ppb	
3) 2-Methylnaphthalene	4.874	142	6380	195.54	ppb	98
4) 1-Methylnaphthalene	4.944	142	7293	192.16	ppb	96
7) Acenaphthylene	5.498	152	11399	193.62	ppb	100
8) Acenaphthene	5.621	153	7183	195.43	ppb	100
11) Fluorene	5.983	166	7216	189.63	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	10629	185.89	ppb	96
14) Anthracene	6.672	178	11123	196.33	ppb	99
15) Fluoranthene	7.527	202	13086	190.87	ppb	90
16) Pyrene	7.710	202	13108	191.06	ppb	97
19) Benzo[a]anthracene	8.860	228	11544	202.38	ppb	100
20) Chrysene	8.895	228	11715	193.43	ppb	100
22) Benzo[b]fluoranthene	9.986	252	12426	180.27	ppb	86
23) Benzo(j,k)fluoranthene	10.015	252	13046	204.20	ppb	86
24) Benzo[a]pyrene	10.317	252	11034	192.41	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	11680	196.39	ppb	83
26) Dibenz[a,h]anthracene	11.550	278	11998	193.70	ppb	82
27) Benzo[g,h,i]perylene	11.827	276	12180	192.46	ppb	77

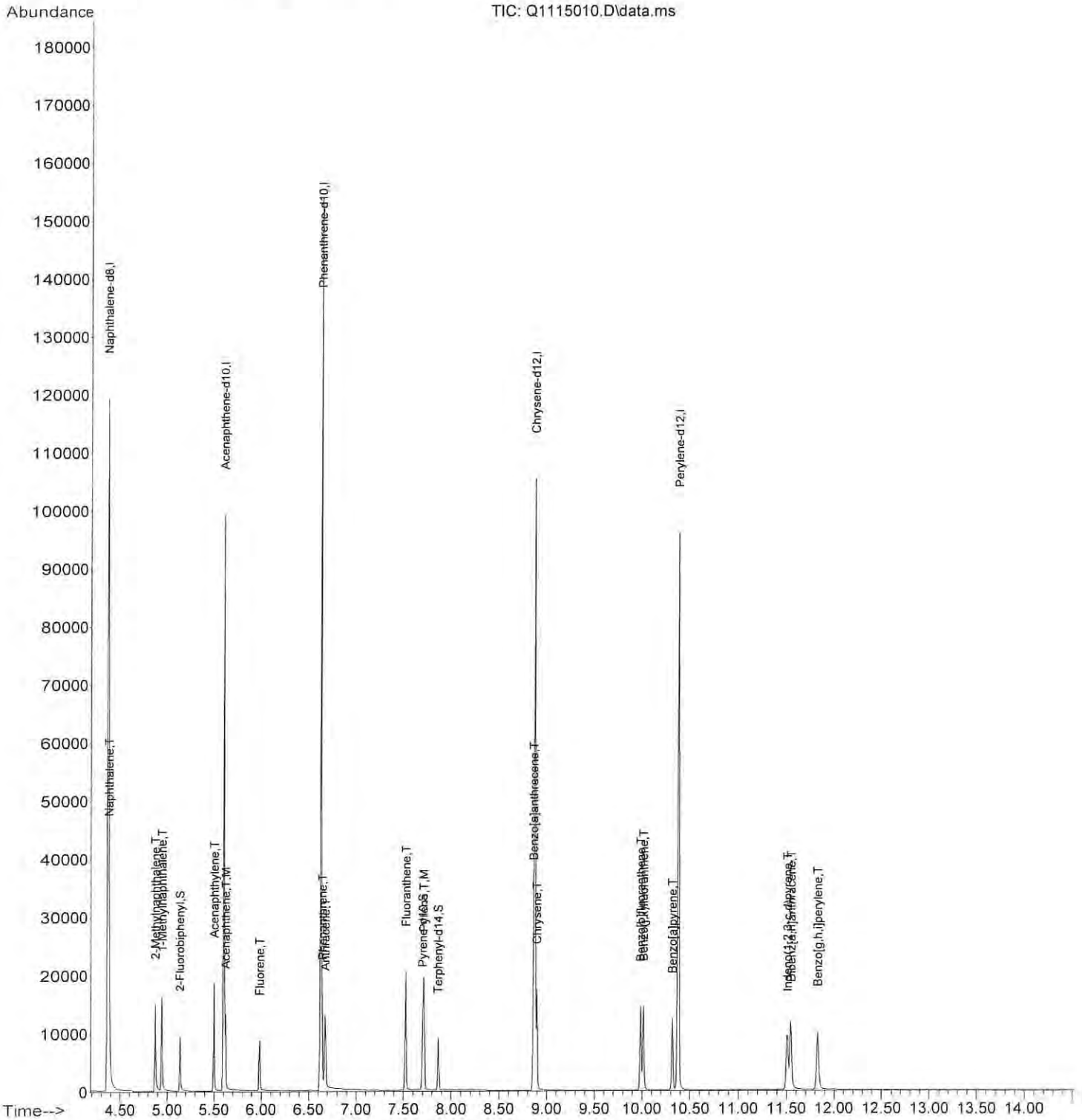
(#) = qualifier out of range (m) = manual integration (+) = signals summed

VD 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115010.D
Acq On : 15 Nov 2023 12:01 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-131-14
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 16 11:01:07 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115011.D
Acq On : 15 Nov 2023 12:23 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-131-13
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 16 11:01:49 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.365	136	125135	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	64910	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	113110	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	93475	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	100510	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	21733	529.41	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.94%			
10) Pyrene-d10	7.700	212	24603	491.58	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.16%			
18) Terphenyl-d14	7.864	244	17643	524.84	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 52.48%			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	31438	504.44	ppb	98
3) 2-Methylnaphthalene	4.874	142	16901	511.37	ppb	98
4) 1-Methylnaphthalene	4.944	142	18834	489.89	ppb	96
7) Acenaphthylene	5.498	152	29635	500.10	ppb	100
8) Acenaphthene	5.622	153	18365	496.43	ppb	100
11) Fluorene	5.984	166	18689	489.41	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	27689	482.55	ppb	96
14) Anthracene	6.672	178	28473	500.79	ppb	98
15) Fluoranthene	7.527	202	33490	486.77	ppb	91
16) Pyrene	7.710	202	33748	490.17	ppb	97
19) Benzo[a]anthracene	8.860	228	29031	521.65	ppb	99
20) Chrysene	8.895	228	29759	489.84	ppb	99
22) Benzo[b]fluoranthene	9.987	252	31895	459.83	ppb	86
23) Benzo(j,k)fluoranthene	10.016	252	33599	522.61	ppb	86
24) Benzo[a]pyrene	10.318	252	28404	492.20	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	29025m	484.98	ppb	
26) Dibenz[a,h]anthracene	11.542	278	30936	496.33	ppb	82
27) Benzo[g,h,i]perylene	11.827	276	31473	494.20	ppb	78

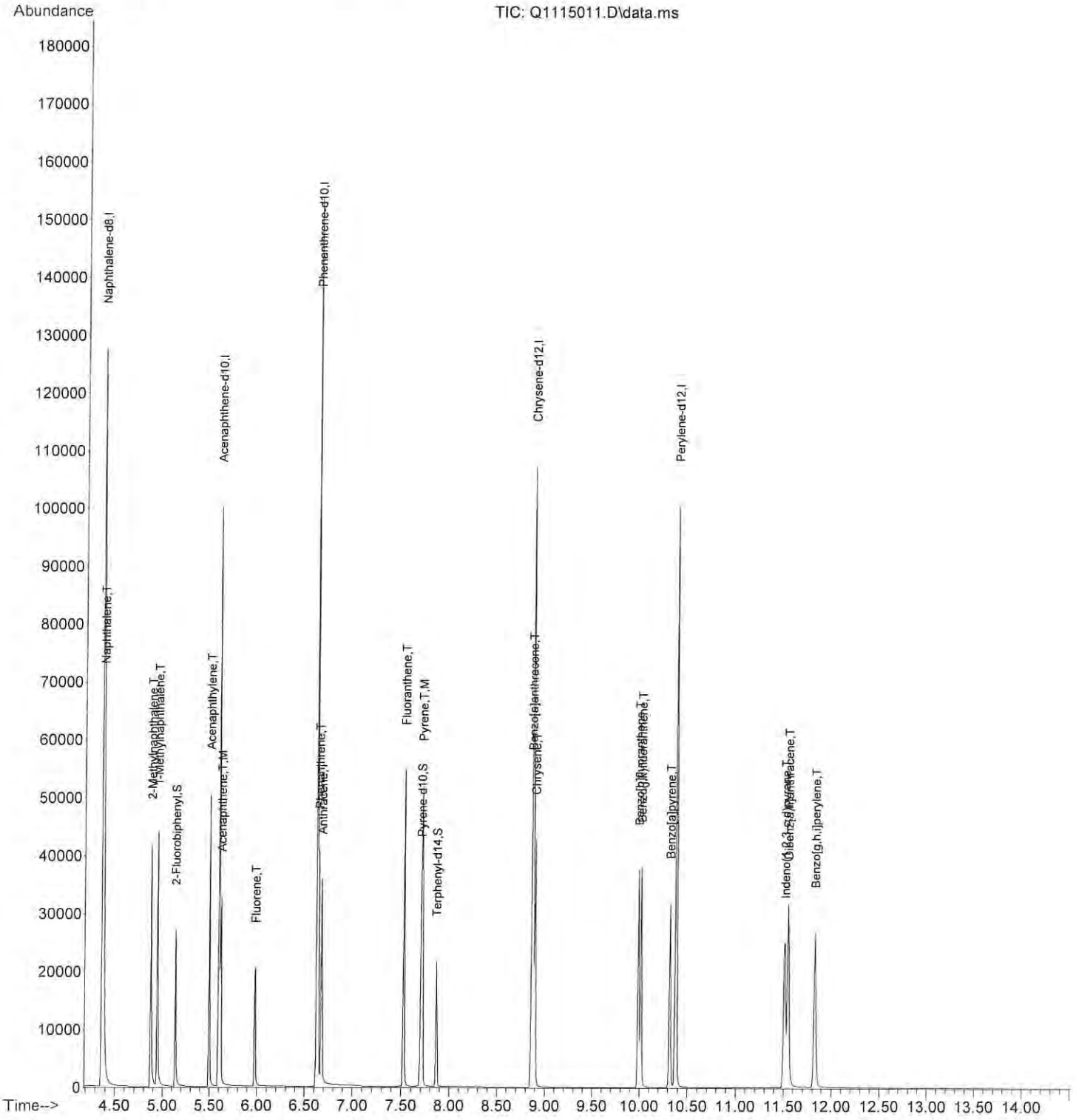
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115011.D
Acq On : 15 Nov 2023 12:23 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-131-13
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 16 11:01:49 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115012.D
Acq On : 15 Nov 2023 12:46 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-131-12
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 16 11:01:57 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	126308	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	65540	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	111053	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	94526	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	101691	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	42584	1032.89	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 103.29%#			
10) Pyrene-d10	7.700	212	48086	978.57	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 97.86%			
18) Terphenyl-d14	7.863	244	35290	1046.41	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 104.64%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	60372	959.70	ppb	99
3) 2-Methylnaphthalene	4.874	142	34013	1019.58	ppb	98
4) 1-Methylnaphthalene	4.944	142	37102	956.09	ppb	97
7) Acenaphthylene	5.498	152	58660	980.40	ppb	100
8) Acenaphthene	5.621	153	36016	964.20	ppb	100
11) Fluorene	5.983	166	37010	987.14	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	54212	962.28	ppb	96
14) Anthracene	6.672	178	54826	982.16	ppb	97
15) Fluoranthene	7.527	202	66810	989.06	ppb	91
16) Pyrene	7.710	202	66980	990.87	ppb	97
19) Benzo[a]anthracene	8.860	228	57796	1036.16	ppb	100
20) Chrysene	8.895	228	58468	951.69	ppb	100
22) Benzo[b]fluoranthene	9.986	252	68737	979.47	ppb	89
23) Benzo(j,k)fluoranthene	10.015	252	60898	936.23	ppb	82
24) Benzo[a]pyrene	10.317	252	56755	972.07	ppb	86
25) Indeno(1,2,3-c,d)pyrene	11.511	276	60987	1007.21	ppb	83
26) Dibenz[a,h]anthracene	11.550	278	61387	973.43	ppb	82
27) Benzo[g,h,i]perylene	11.827	276	62323	967.25	ppb	78

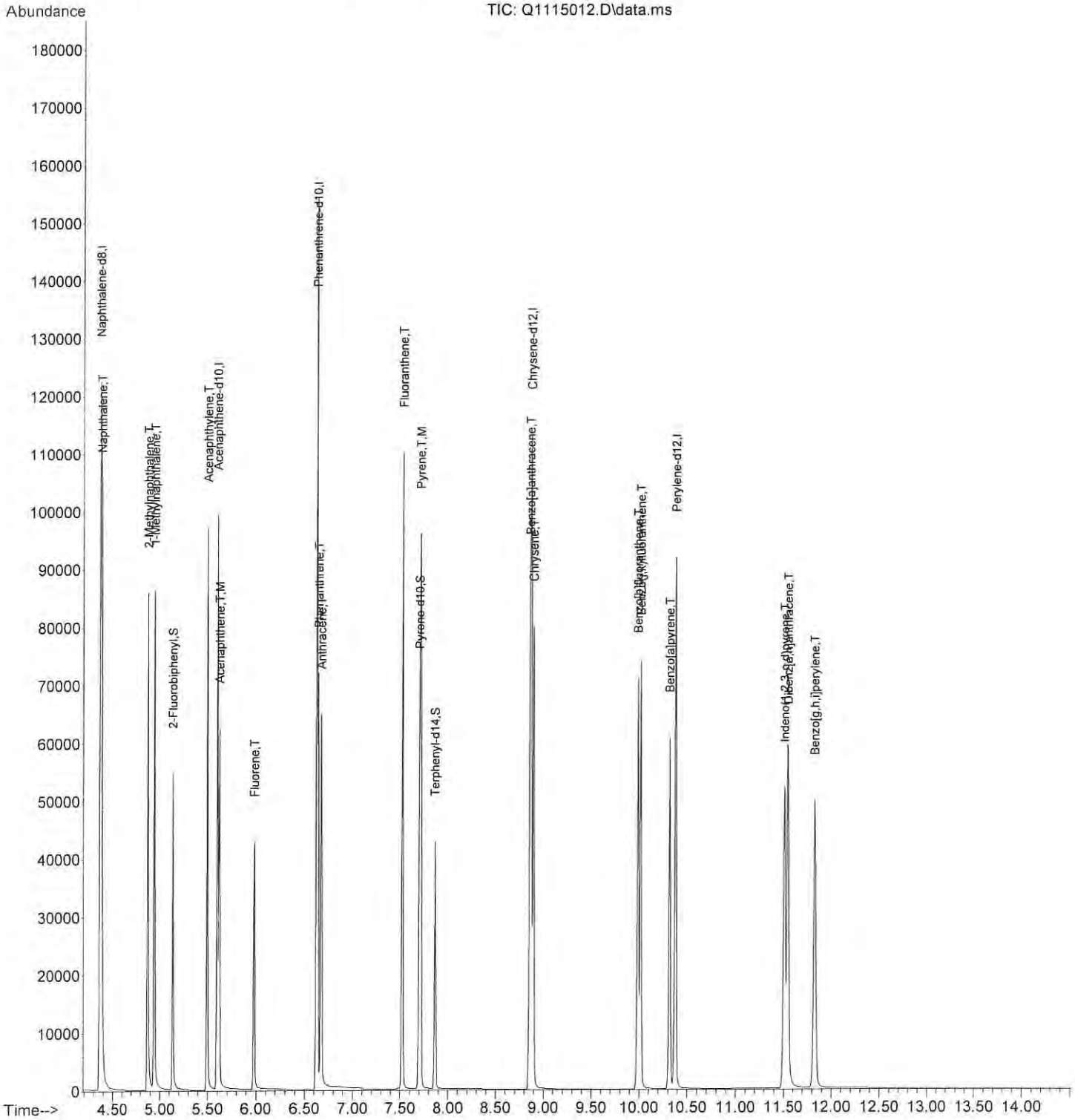
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115012.D
Acq On : 15 Nov 2023 12:46 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-131-12
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 16 11:01:57 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115013.D
Acq On : 15 Nov 2023 1:09 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-131-11
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 16 10:57:54 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.364	136	125869	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	65034	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	117295	2000.00	ppb	0.00
17) Chrysene-d12	8.872	240	91979	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	96549	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	203594	4999.08	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 499.91%#			
10) Pyrene-d10	7.700	212	222374	4284.58	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 428.46%#			
18) Terphenyl-d14	7.863	244	160839	4932.43	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 493.24%#			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	286600	4571.83	ppb	99
3) 2-Methylnaphthalene	4.874	142	171141	5148.03	ppb	98
4) 1-Methylnaphthalene	4.944	142	179543	4642.81	ppb	96
7) Acenaphthylene	5.498	152	282649	4760.73	ppb	100
8) Acenaphthene	5.621	153	177246	4782.07	ppb	100
11) Fluorene	5.983	166	191377	4832.80	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	270124	4539.61	ppb	95
14) Anthracene	6.672	178	258953	4392.06	ppb	97
15) Fluoranthene	7.527	202	313881	4399.43	ppb	92
16) Pyrene	7.710	202	300512	4209.06	ppb	96
19) Benzo[a]anthracene	8.860	228	266141	4938.87	ppb	99
20) Chrysene	8.901	228	269003	4499.85	ppb	99
22) Benzo[b]fluoranthene	9.992	252	327511	4915.40	ppb	89
23) Benzo(j,k)fluoranthene	10.021	252	275534	4461.59	ppb	83
24) Benzo[a]pyrene	10.323	252	262269	4731.24	ppb	86
25) Indeno(1,2,3-c,d)pyrene	11.526	276	280201m	4874.00	ppb	
26) Dibenz[a,h]anthracene	11.557	278	277834	4640.33	ppb	83
27) Benzo[g,h,i]perylene	11.850	276	276722	4523.44	ppb	78

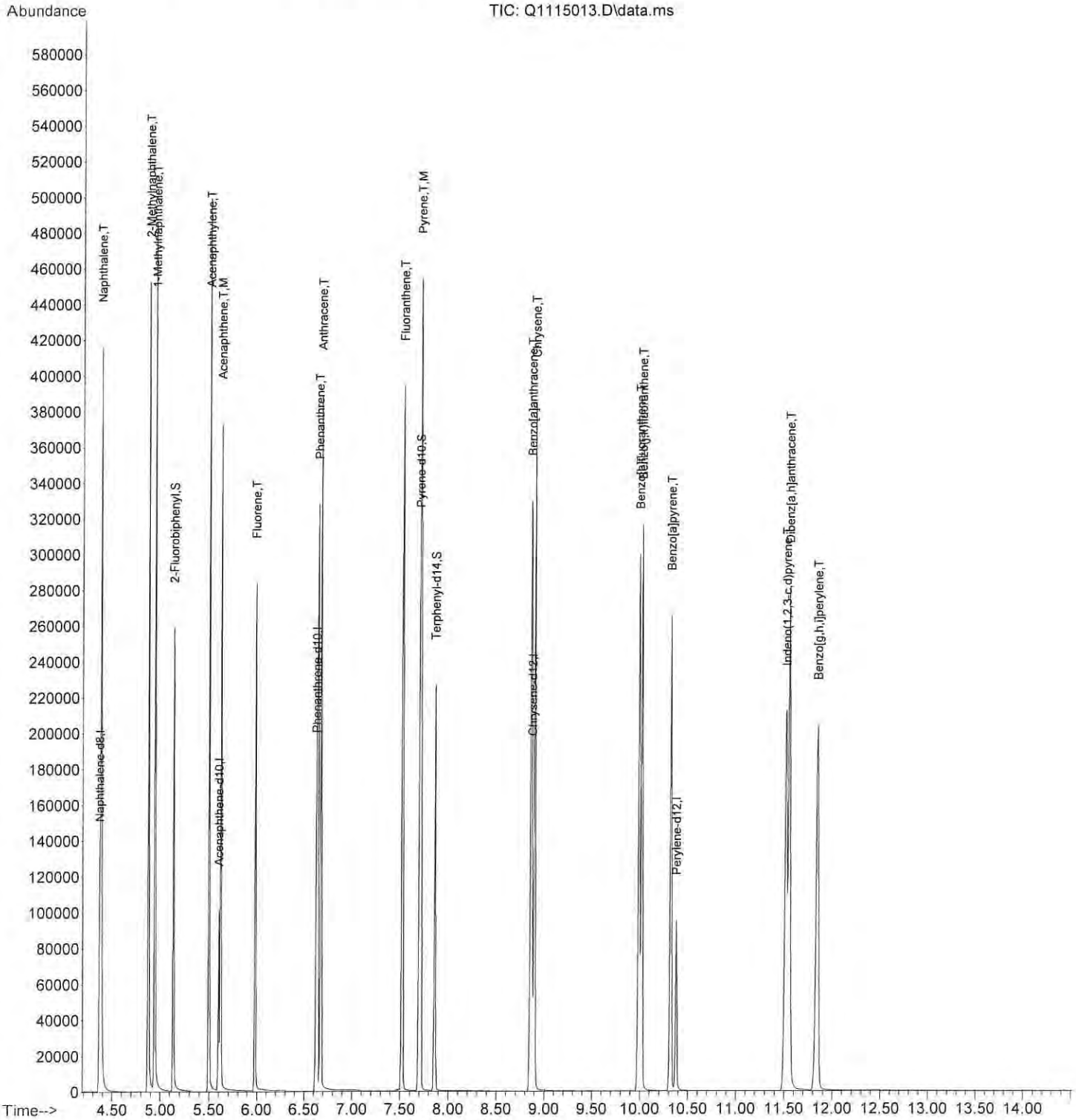
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD
8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115013.D
Acq On : 15 Nov 2023 1:09 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-131-11
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 16 10:57:54 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115018.D
Acq On : 15 Nov 2023 3:27 pm
Operator : JP
Sample : ICV
Misc : SV6-132-14
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 16 11:04:08 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	105	0.16
2	T	Naphthalene	500.000	501.206	-0.2	108	0.16
3	T	2-Methylnaphthalene	500.000	547.043	-9.4	112	0.16
4	T	1-Methylnaphthalene	500.000	495.711	0.9	104	0.17
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	106	0.16
6	S	2-Fluorobiphenyl	500.000	521.880	-4.4	108	0.16
7	T	Acenaphthylene	500.000	493.664	1.3	105	0.16
8	T,M	Acenaphthene	500.000	509.772	-2.0	109	0.16
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	97	0.16
10	S	Pyrene-d10	500.000	509.255	-1.9	100	0.18
11	T	Fluorene	500.000	536.158	-7.2	106	0.16
12	T	Pentachlorophenol	500.000	0.000	100.0#	0	-5.27#
13	T	Phenanthrene	500.000	566.017	-13.2	113	0.16
14	T	Anthracene	500.000	576.104	-15.2	111	0.17
15	T	Fluoranthene	500.000	510.687	-2.1	101	0.18
16	T,M	Pyrene	500.000	549.366	-9.9	108	0.19
17	I	Chrysene-d12	2000.000	2000.000	0.0	105	0.23
18	S	Terphenyl-d14	500.000	527.159	-5.4	105	0.19
19	T	Benzo[a]anthracene	500.000	562.061	-12.4	113	0.23
20	T	Chrysene	500.000	435.616	12.9	93	0.23
21	I	Perylene-d12	2000.000	2000.000	0.0	105	0.25
22	T	Benzo[b]fluoranthene	500.000	479.907	4.0	109	0.25
23	T	Benzo(j,k)fluoranthene	500.000	468.677	6.3	94	0.25
24	T	Benzo[a]pyrene	500.000	502.475	-0.5	107	0.25
25	T	Indeno(1,2,3-c,d)pyrene	500.000	501.208	-0.2	109	0.33
26	T	Dibenz[a,h]anthracene	500.000	498.364	0.3	105	0.33
27	T	Benzo[g,h,i]perylene	500.000	500.610	-0.1	106	0.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115018.D
Acq On : 15 Nov 2023 3:27 pm
Operator : JP
Sample : ICV
Misc : SV6-132-14
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 16 11:04:08 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.365	136	131130	2000.00	ppb	0.00
5) Acenaphthene-d10	5.598	164	68832	2000.00	ppb	0.00
9) Phenanthrene-d10	6.624	188	109281	2000.00	ppb	0.00
17) Chrysene-d12	8.878	240	98039	2000.00	ppb	0.00
21) Perylene-d12	10.381	264	105402	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.135	172	22722	521.88	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.19%			
10) Pyrene-d10	7.700	212	24625	509.26	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 50.93%			
18) Terphenyl-d14	7.873	244	18585	527.16	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 52.72%			
Target Compounds						Qvalue
2) Naphthalene	4.380	128	32733	501.21	ppb	95
3) 2-Methylnaphthalene	4.874	142	18946	547.04	ppb	98
4) 1-Methylnaphthalene	4.944	142	19971	495.71	ppb	97
7) Acenaphthylene	5.498	152	31021	493.66	ppb	100
8) Acenaphthene	5.621	153	19998	509.77	ppb	100
11) Fluorene	5.976	166	19781	536.16	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.643	178	31379	566.02	ppb	96
14) Anthracene	6.682	178	31646	576.10	ppb	95
15) Fluoranthene	7.527	202	33946	510.69	ppb	88
16) Pyrene	7.719	202	36543	549.37	ppb	96
19) Benzo[a]anthracene	8.866	228	32765	562.06	ppb	98
20) Chrysene	8.901	228	27757	435.62	ppb	98
22) Benzo[b]fluoranthene	9.986	252	34908	479.91	ppb	90
23) Benzo(j,k)fluoranthene	10.015	252	31598	468.68	ppb	82
24) Benzo[a]pyrene	10.317	252	30408	502.48	ppb	85
25) Indeno(1,2,3-c,d)pyrene	11.511	276	31456m	501.21	ppb	
26) Dibenz[a,h]anthracene	11.542	278	32575	498.36	ppb	83
27) Benzo[g,h,i]perylene	11.827	276	33433	500.61	ppb	78

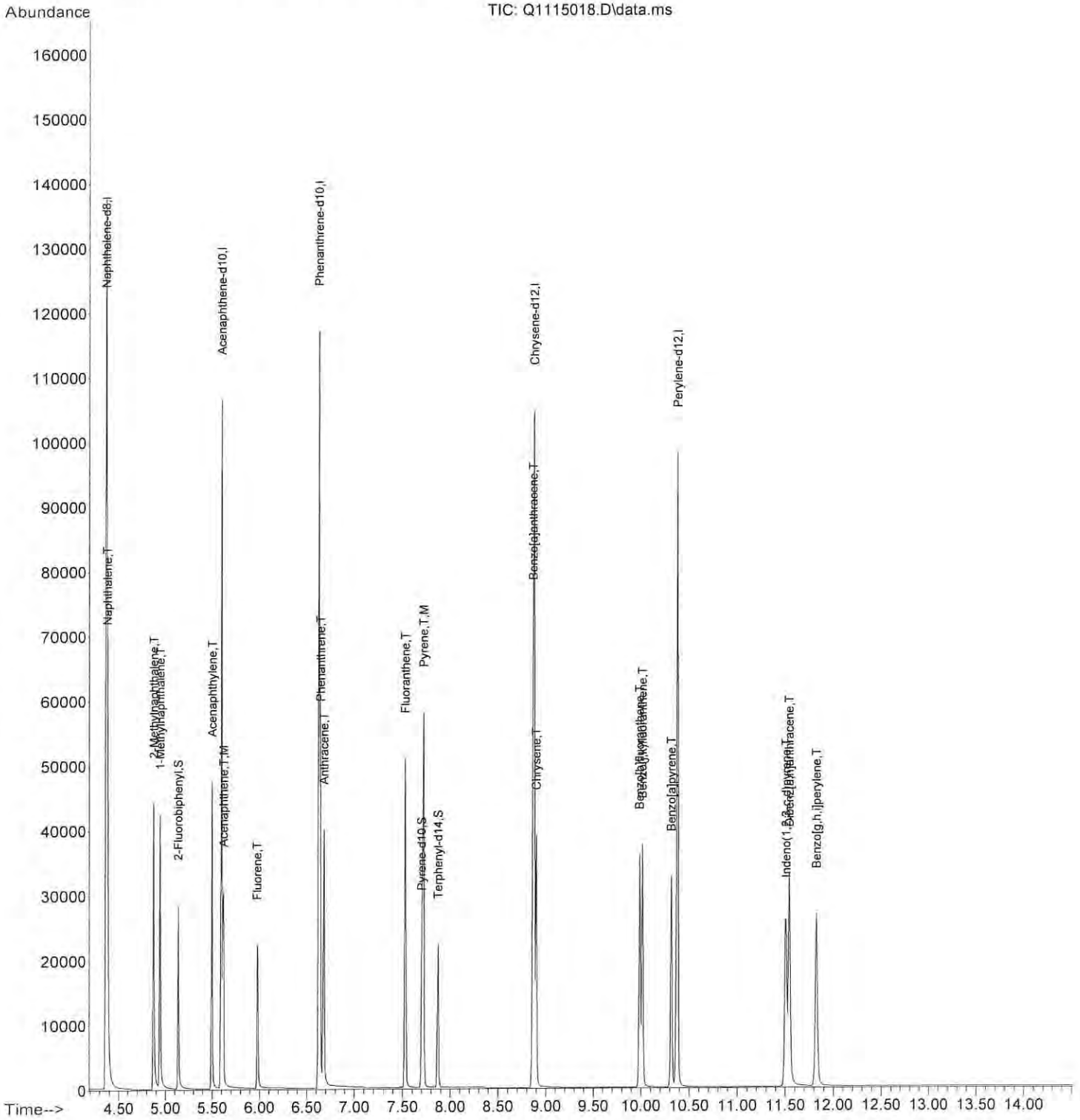
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115018.D
Acq On : 15 Nov 2023 3:27 pm
Operator : JP
Sample : ICV
Misc : SV6-132-14
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 16 11:04:08 2023
Quant Method : C:\msdchem\1\methods\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:56:06 2023
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130001.D
Acq On : 30 Nov 2023 9:49 am
Operator : JP
Sample : PAH CCV1130-1
Misc : SV6-133-11
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 10:30:44 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	130	-0.08
2	T	Naphthalene	500.000	442.206	11.6	118	-0.08
3	T	2-Methylnaphthalene	500.000	472.118	5.6	120	-0.08
4	T	1-Methylnaphthalene	500.000	438.046	12.4	114	-0.08
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	117	-0.08
6	S	2-Fluorobiphenyl	500.000	513.785	-2.8	118	-0.08
7	T	Acenaphthylene	500.000	488.325	2.3	114	-0.08
8	T,M	Acenaphthene	500.000	488.566	2.3	115	-0.09
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	108	-0.08
10	S	Pyrene-d10	500.000	465.759	6.8	103	-0.09
11	T	Fluorene	500.000	555.427	-11.1	123	-0.09
12	T	Pentachlorophenol	500.000	0.000	100.0#	0	-5.27#
13	T	Phenanthrene	500.000	520.499	-4.1	117	-0.08
14	T	Anthracene	500.000	519.642	-3.9	112	-0.07
15	T	Fluoranthene	500.000	460.258	7.9	102	-0.08
16	T,M	Pyrene	500.000	475.624	4.9	105	-0.08
17	I	Chrysene-d12	2000.000	2000.000	0.0	107	-0.10
18	S	Terphenyl-d14	500.000	525.308	-5.1	107	-0.08
19	T	Benzo[a]anthracene	500.000	498.027	0.4	102	-0.10
20	T	Chrysene	500.000	484.967	3.0	106	-0.10
21	I	Perylene-d12	2000.000	2000.000	0.0	104	-0.11
22	T	Benzo[b]fluoranthene	500.000	459.293	8.1	104	-0.11
23	T	Benzo(j,k)fluoranthene	500.000	523.346	-4.7	104	-0.11
24	T	Benzo[a]pyrene	500.000	491.185	1.8	104	-0.11
25	T	Indeno(1,2,3-c,d)pyrene	500.000	468.410	6.3	101	-0.15
26	T	Dibenz[a,h]anthracene	500.000	463.148	7.4	97	-0.14
27	T	Benzo[g,h,i]perylene	500.000	445.176	11.0	94	-0.16

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

12/1/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130001.D
Acq On : 30 Nov 2023 9:49 am
Operator : JP
Sample : PAH CCV1130-1
Misc : SV6-133-11
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 10:30:44 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.287	136	162406	2000.00	ppb	-0.08
5) Acenaphthene-d10	5.519	164	75982	2000.00	ppb	-0.08
9) Phenanthrene-d10	6.545	188	122587	2000.00	ppb	-0.08
17) Chrysene-d12	8.771	240	100020	2000.00	ppb	-0.10
21) Perylene-d12	10.269	264	104378	2000.00	ppb	-0.11
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	24734	513.79	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.38%			
10) Pyrene-d10	7.612	212	25264	465.76	ppb	-0.09
Spiked Amount 1000.000	Range 40 - 110		Recovery = 46.58%			
18) Terphenyl-d14	7.785	244	18895	525.31	ppb	-0.08
Spiked Amount 1000.000	Range 39 - 92		Recovery = 52.53%			
Target Compounds						Qvalue
2) Naphthalene	4.295	128	35768	442.21	ppb	91
3) 2-Methylnaphthalene	4.793	142	20251	472.12	ppb	99
4) 1-Methylnaphthalene	4.862	142	21857	438.05	ppb	95
7) Acenaphthylene	5.419	152	33873	488.33	ppb	100
8) Acenaphthene	5.535	153	21157	488.57	ppb	100
11) Fluorene	5.897	166	22987	555.43	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.564	178	32369	520.50	ppb	95
14) Anthracene	6.603	178	32020	519.64	ppb	98
15) Fluoranthene	7.448	202	34319	460.26	ppb	90
16) Pyrene	7.631	202	35490	475.62	ppb	96
19) Benzo[a]anthracene	8.760	228	29682	498.03	ppb	100
20) Chrysene	8.794	228	31526	484.97	ppb	99
22) Benzo[b]fluoranthene	9.880	252	33084	459.29	ppb	87
23) Benzo(j,k)fluoranthene	9.909	252	34941	523.35	ppb	87
24) Benzo[a]pyrene	10.205	252	29436	491.19	ppb	86
25) Indeno(1,2,3-c,d)pyrene	11.363	276	29112m	468.41	ppb	
26) Dibenz[a,h]anthracene	11.401	278	29979	463.15	ppb	86
27) Benzo[g,h,i]perylene	11.671	276	29442	445.18	ppb	81

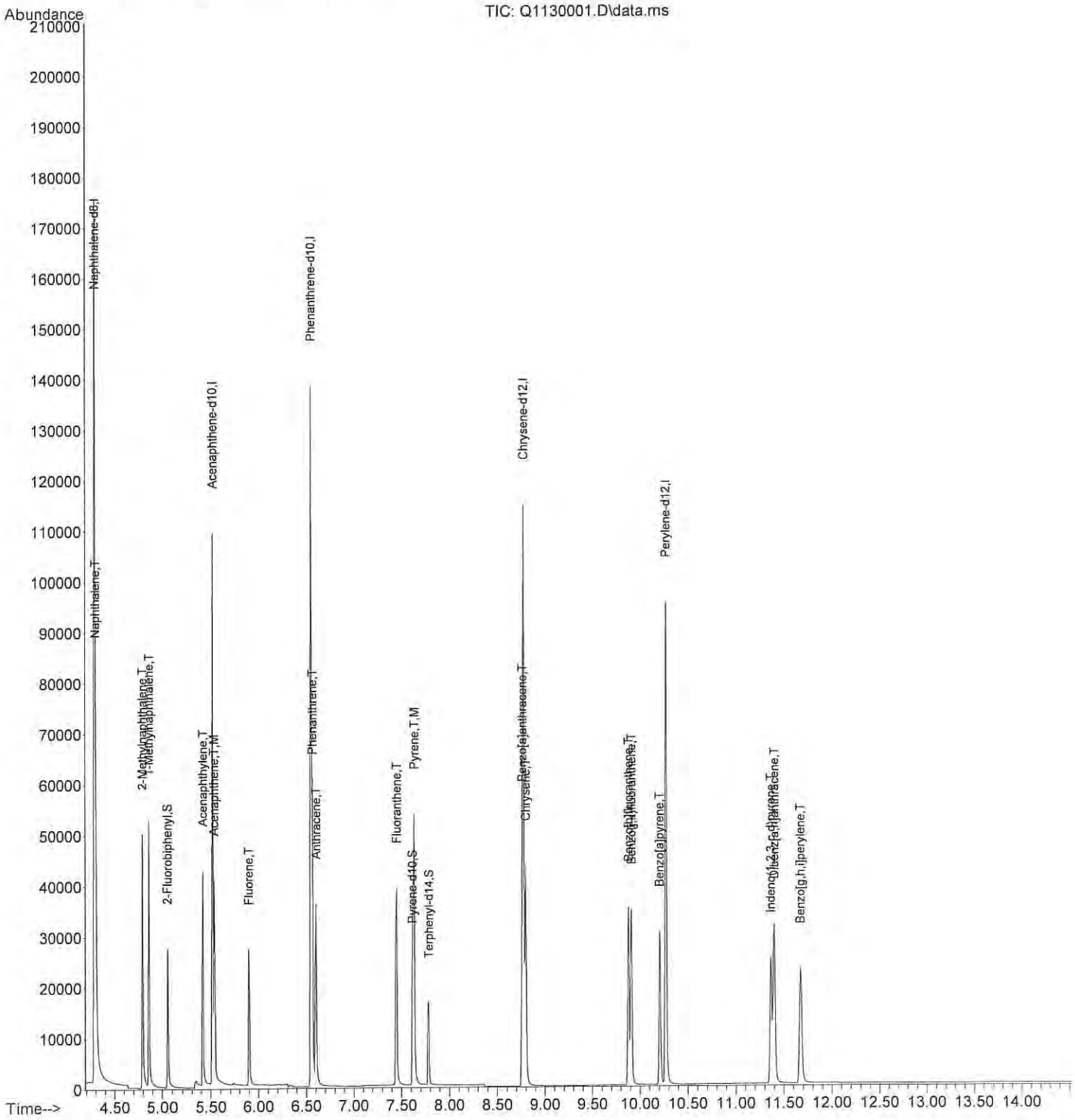
(#) = qualifier out of range (m) = manual integration (+) = signals summed

12/11/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231130\
Data File : Q1130001.D
Acq On : 30 Nov 2023 9:49 am
Operator : JP
Sample : PAH CCV1130-1
Misc : SV6-133-11
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 30 10:30:44 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201001.D
Acq On : 1 Dec 2023 10:14 am
Operator : JP
Sample : PAH CCV1201-1
Misc : SV6-133-12
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 01 10:37:47 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	109	-0.08
2	T	Naphthalene	500.000	479.074	4.2	107	-0.08
3	T	2-Methylnaphthalene	500.000	507.976	-1.6	108	-0.08
4	T	1-Methylnaphthalene	500.000	463.255	7.3	102	-0.08
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	101	-0.08
6	S	2-Fluorobiphenyl	500.000	566.676	-13.3	112	-0.08
7	T	Acenaphthylene	500.000	496.971	0.6	100	-0.08
8	T,M	Acenaphthene	500.000	488.387	2.3	99	-0.08
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	89	0.00
10	S	Pyrene-d10	500.000	459.292	8.1	83	0.06
11	T	Fluorene	500.000	543.928	-8.8	99	-0.06
12	T	Pentachlorophenol	500.000	0.000	100.0#	0	-5.27#
13	T	Phenanthrene	500.000	485.035	3.0	89	-0.02
14	T	Anthracene	500.000	492.206	1.6	87	0.00
15	T	Fluoranthene	500.000	464.984	7.0	85	0.06
16	T,M	Pyrene	500.000	451.565	9.7	82	0.07
17	I	Chrysene-d12	2000.000	2000.000	0.0	83	0.02
18	S	Terphenyl-d14	500.000	551.230	-10.2	87	0.07
19	T	Benzo[a]anthracene	500.000	514.622	-2.9	81	0.02
20	T	Chrysene	500.000	478.593	4.3	81	0.02
21	I	Perylene-d12	2000.000	2000.000	0.0	77	-0.05
22	T	Benzo[b]fluoranthene	500.000	458.349	8.3	77	-0.04
23	T	Benzo(j,k)fluoranthene	500.000	540.634	-8.1	80	-0.04
24	T	Benzo[a]pyrene	500.000	495.806	0.8	78	-0.05
25	T	Indeno(1,2,3-c,d)pyrene	500.000	485.607	2.9	78	-0.10
26	T	Dibenz[a,h]anthracene	500.000	460.736	7.9	72	-0.10
27	T	Benzo[g,h,i]perylene	500.000	453.407	9.3	71	-0.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0

JP
12/1/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201001.D
Acq On : 1 Dec 2023 10:14 am
Operator : JP
Sample : PAH CCV1201-1
Misc : SV6-133-12
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 01 10:37:47 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.287	136	136467	2000.00	ppb	-0.08
5) Acenaphthene-d10	5.521	164	65372	2000.00	ppb	-0.08
9) Phenanthrene-d10	6.614	188	100537	2000.00	ppb	0.00
17) Chrysene-d12	8.889	240	77128	2000.00	ppb	0.02
21) Perylene-d12	10.329	264	77863	2000.00	ppb	-0.05
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.054	172	23443	566.68	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 56.67%			
10) Pyrene-d10	7.758	212	20432	459.29	ppb	0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 45.93%			
18) Terphenyl-d14	7.931	244	15278	551.23	ppb	0.07
Spiked Amount 1000.000	Range 39 - 92		Recovery = 55.12%			
Target Compounds						Qvalue
2) Naphthalene	4.295	128	32561	479.07	ppb	97
3) 2-Methylnaphthalene	4.793	142	18309	507.98	ppb	98
4) 1-Methylnaphthalene	4.862	142	19423	463.25	ppb	96
7) Acenaphthylene	5.421	152	29659m	496.97	ppb	
8) Acenaphthene	5.544	153	18196m	488.39	ppb	
11) Fluorene	5.922	166	18462	543.93	ppb	100
12) Pentachlorophenol	0.000		0	N.D.		
13) Phenanthrene	6.624	178	24738	485.04	ppb	98
14) Anthracene	6.672	178	24874	492.21	ppb	99
15) Fluoranthene	7.585	202	28435	464.98	ppb	96
16) Pyrene	7.777	202	27634	451.57	ppb	97
19) Benzo[a]anthracene	8.878	228	23637	514.62	ppb	99
20) Chrysene	8.912	228	23991	478.59	ppb	100
22) Benzo[b]fluoranthene	9.951	252	24629	458.35	ppb	89
23) Benzo(j,k)fluoranthene	9.980	252	26926	540.63	ppb	89
24) Benzo[a]pyrene	10.271	252	22165	495.81	ppb	86
25) Indeno(1,2,3-c,d)pyrene	11.411	276	22514m	485.61	ppb	
26) Dibenz[a,h]anthracene	11.442	278	22247	460.74	ppb	88
27) Benzo[g,h,i]perylene	11.719	276	22369	453.41	ppb	83

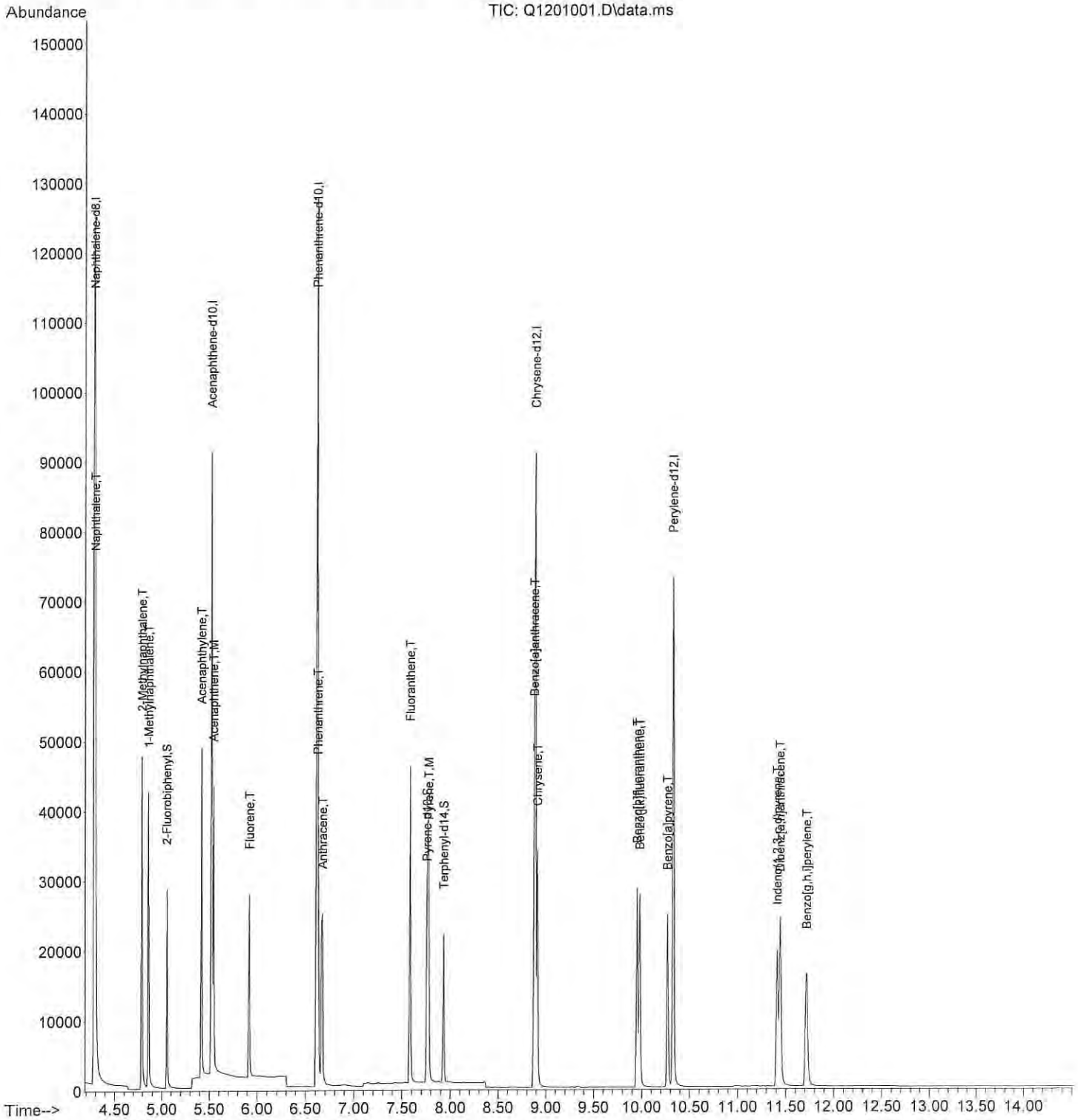
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 12/1/23

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Quaggy\DATA\Q231201\
Data File : Q1201001.D
Acq On : 1 Dec 2023 10:14 am
Operator : JP
Sample : PAH CCV1201-1
Misc : SV6-133-12
ALS Vial : 1 Sample Multiplier: 1

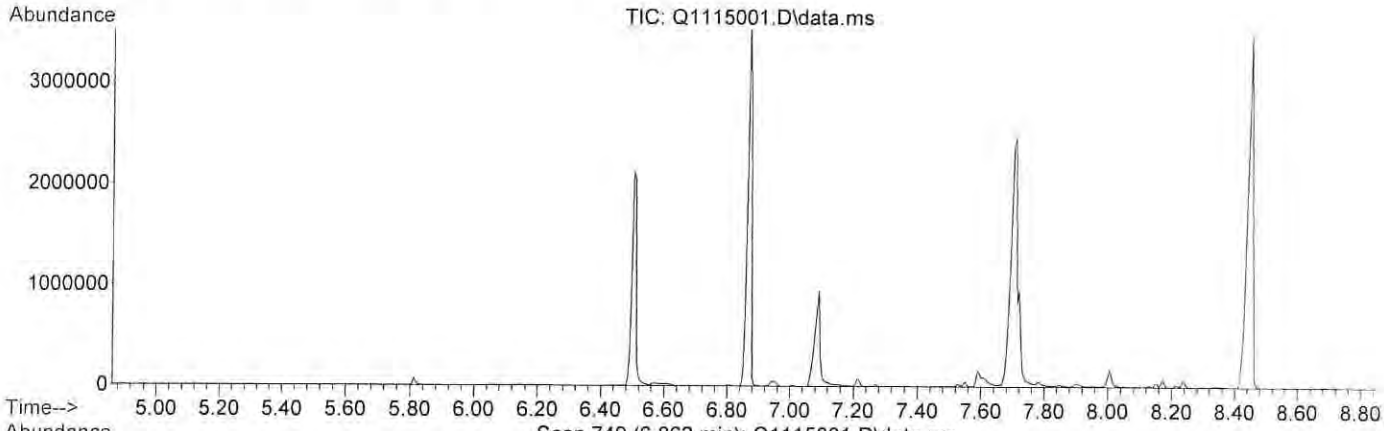
Quant Time: Dec 01 10:37:47 2023
Quant Method : C:\MSDCHEM\1\METHODS\Q231115P.M
Quant Title : PAH'S BY SIMS
QLast Update : Thu Nov 16 09:50:46 2023
Response via : Initial Calibration

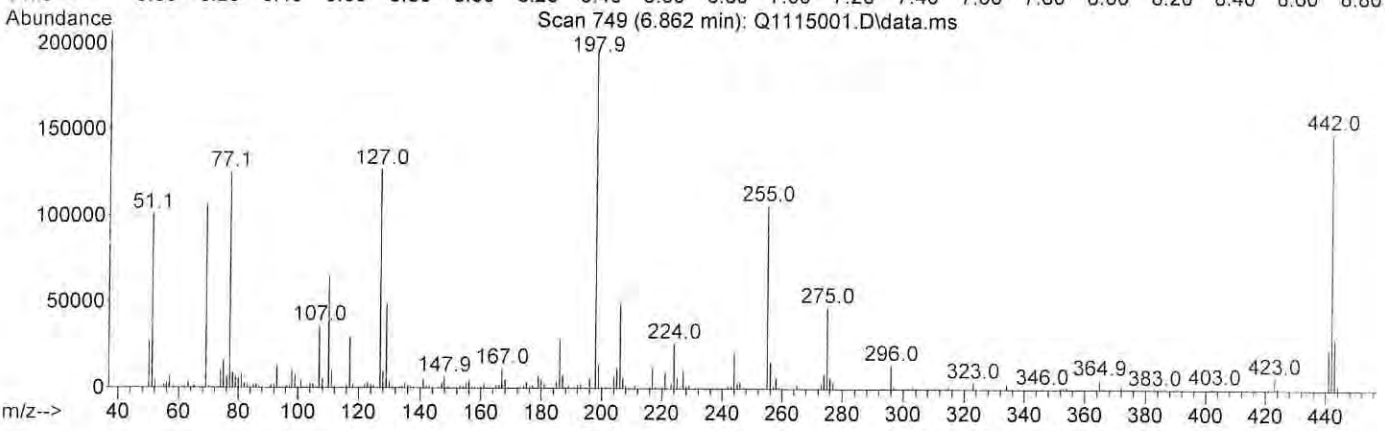


Data Path : X:\semivols\Quaggy\DATA\Q231115\
Data File : Q1115001.D
Acq On : 15 Nov 2023 8:26 am
Operator : JP
Sample : DFTPP
Misc : SV6-127-10
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\Q240820.M
Title : PAH'S BY SIMS
Last Update : Tue Aug 20 15:10:23 2024





Spectrum Information: Scan 749

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.3	101120	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	54.3	106872	PASS
70	69	0.00	2	1.1	1229	PASS
127	198	10	80	64.5	126968	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196928	PASS
199	198	5	9	7.1	13968	PASS
275	198	10	60	24.2	47568	PASS
365	198	0.10	100	3.2	6237	PASS
441	443	0.01	100	78.7	23720	PASS
442	198	40	110	75.9	149376	PASS
443	442	15	24	20.2	30136	PASS

GC/MS QA-QC Check Report

Tune File : X:\semivols\Quaggy\DATA\Q231115\Q1115018.D
Tune Time : 15 Nov 2023 3:27 pm

Daily Calibration File : X:\semivols\Quaggy\DATA\Q231115\Q1115018.D

(PRY)	(NPT)	(ACE)	(PHN)
	131130	68832	109281

(CRY)	(PRY)
98039	105402

File	Sample	Surrogate Recovery %			Internal Standard Responses		
Q1115007.D	20 PPB ICA	3*	2*	2*	121015	63688	111121
					91146	96923	
Q1115008.D	50 PPB ICA	5*	5*	5*	122068	63782	107598
					91025	97816	
Q1115009.D	100 PPB IC	10*	10*	10*	123003	63802	108746
					92818	99300	
Q1115010.D	200 PPB IC	19*	19*	20*	123533	64490	112712
					93185	99881	
Q1115011.D	500 PPB IC	53	49	52	125135	64910	113110
					93475	100510	
Q1115012.D	1000 PPB I	103*	98	105*	126308	65540	111053
					94526	101691	
Q1115013.D	5000 PPB I	500*	428*	493*	125869	65034	117295
					91979	96549	
Q1115017.D	10 PPB ICA	1*	1*	1*	124516	63119	115751
					93870	101587	

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 14:06:34 2024 quaggy

GC/MS QA-QC Check Report

Tune File : X:\semivols\Quaggy\DATA\Q231130\Q1130001.D
Tune Time : 30 Nov 2023 9:49 am

Daily Calibration File : X:\semivols\Quaggy\DATA\Q231130\Q1130001.D

(PRY)	(NPT)	(ACE)	(PHN)
	162406	75982	122587

(CRY)	(PRY)
100020	104378

File	Sample	Surrogate Recovery %			Internal Standard Responses		
Q1130007.D							
	MB1130W1	74	78	105*	95102	48844	88550
				72735	75322		
Q1130008.D							
	11-272-02	68	76	95*	95413	48741	87082
				72162	73228		
Q1130009.D							
	11-272-04	46	47	64	96437	46975	83959
				69304	69815		
Q1130010.D							
	11-272-05	45	49	60	96855	50226	92661
				73841	76674		
Q1130011.D							
	11-272-01	69	76	93*	95431	49275	85145
				73166	74606		
Q1130012.D							
	11-272-03	73	77	102*	95252	50028	90698
				73529	76478		

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 14:08:50 2024 quaggy

GC/MS QA-QC Check Report

Tune File : X:\semivols\Quaggy\DATA\Q231201\Q1201001.D
Tune Time : 1 Dec 2023 10:14 am

Daily Calibration File : X:\semivols\Quaggy\DATA\Q231201\Q1201001.D

(PRY)	(NPT)	(ACE)	(PHN)
	136467	65372	100537

(CRY)	(PRY)
77128	77863

File	Sample	Surrogate Recovery %			Internal Standard Responses		
Q1201003.D							
	SB1130W1 R	63	68	79	90266	47377	83433
			72175	75514			
Q1201004.D							
	SB1130W1 D	62	66	78	95049	50148	89694
			74923	78519			

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 14:09:14 2024 quaggy

Sequence Name: C:\msdchem\1\sequence\Q231115.s
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\Q231115\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
(X) Barcode Disabled

Line		Sample Name/Misc Info		
1)	Sample	1	Q1115001	SIMSCAN DFTPP
2)	Sample	2	Q1114002	Q231106P M
3)	Sample	3	Q1114003	Q231106P M
4)	Sample	4	Q1114004	Q231106P M
5)	Sample	5	Q1114005	Q231106P M
6)	Sample	6	Q1115006	Q231106P 10 PPB ICAL
7)	Sample	7	Q1115007	Q231106P 20 PPB ICAL
8)	Sample	8	Q1115008	Q231106P 50 PPB ICAL
9)	Sample	9	Q1115009	Q231106P 100 PPB ICAL
10)	Sample	10	Q1115010	Q231106P 200 PPB ICAL
11)	Sample	11	Q1115011	Q231106P 500 PPB ICAL
12)	Sample	12	Q1115012	Q231106P 1000 PPB ICAL
13)	Sample	13	Q1115013	Q231106P 5000 PPB ICAL
14)	Sample	14	Q1115014	Q231106P M
15)	Sample	15	Q1115015	Q231106P ICV
16)	Sample	16	Q1115016	Q231106P M
17)	Sample	17	Q1115017	Q231106P 10 PPB ICAL
18)	Sample	18	Q1115018	Q231106P ICV
19)	Sample	19	Q1115019	Q231106P M
20)	Sample	20	Q1115020	Q231106P M

Sequence Name: C:\msdchem\1\sequence\Q231130.s
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\Q231130\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
( ) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
(X) Barcode Disabled

Line		Sample Name/Misc Info
1)	Sample 1	Q1130001 Q231115P PAH CCV1130-1
2)	Sample 2	Q1130002 Q231115P M
3)	Sample 3	Q1130003 Q231115P M
4)	Sample 4	Q1130004 Q231115P SB1130W1
5)	Sample 5	Q1130005 Q231115P SB1130W1 DUP
6)	Sample 6	Q1130006 Q231115P 20 LLOQ
7)	Sample 7	Q1130007 Q231115P MB1130W1
8)	Sample 8	Q1130008 Q231115P 11-272-02
9)	Sample 9	Q1130009 Q231115P 11-272-04
10)	Sample 10	Q1130010 Q231115P 11-272-05
11)	Sample 11	Q1130011 Q231115P 11-272-01
12)	Sample 12	Q1130012 Q231115P 11-272-03

Sequence Name: C:\msdchem\1\sequence\Q231201.s
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\Q231201\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	( ) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	(X) Barcode Disabled

	Line		Sample Name/Misc Info
1)	Sample	1	Q1201001 Q231115P PAH CCV1201-1
2)	Sample	2	Q1201002 Q231115P M
3)	Sample	3	Q1201003 Q231115P SB1130W1 REX
4)	Sample	4	Q1201004 Q231115P SB1130W1 DUP REX
5)	Sample	5	Q1201005 Q231115P NK SPE DOC-1
6)	Sample	6	Q1201006 Q231115P NK SPE DOC-2
7)	Sample	7	Q1201007 Q231115P NK SPE DOC-3
8)	Sample	8	Q1201008 Q231115P NK SPE DOC-4
9)	Sample	9	Q1201009 Q231115P NK SPE DOC-5
10)	Sample	10	Q1201010 Q231115P NK SPE DOC-6

EPA 8270 EXTRACTION LOGBOOK

OnSite Environmental Inc.

Date Extracted: 11/30/23 Time Ext. _____ am/pm

Analysis: PAH ~~H2O~~ 3550

Matrix: H2O

Surrogate Std. ID: SV6-132-19

Spike Std. ID: SV6-115-14

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB1130W1		1000ml	30ml	1ml	100ul	—	—	JS	
SB1130W1		1	1	1	1	100ul	1	1	REX
SBD1130W1		1	1	1	1	100ul	1	1	REX
11-272-01a		1568-502	1	1	1	—	1	1	
02a		1584-505	1	1	1	1	1	1	
03a		1578-504	1	1	1	1	1	1	
04a		1558-503	1	1	1	1	1	1	
05a		1583-504	1	1	1	1	1	1	

NR 12/1/23

Clean-up (L)Alumina

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BOOK NO.

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ICV	SV610801	SV610722	2000 ppm	50 µL	10 mL	10 ppm	MeCl2	JP	5/15/23
Stock		1 23	1000	100 µL					
PAH Stock Std	SV610802								5/16/23
PAH Stock	03	SV610802	2000 ppm	1 mL	20 mL	100 ppm	MeCl2	JP	
PAH spike	SV610804	SV610803	100 ppm	2.5 mL	50 mL	5 ppm	Acetone	JP	
BNA CCV	05	SV609510, 9714, 8204	200 ppm	20 µL each	200 µL	20 ppm	MeCl2		
PAH CCV	06	SV610605	10 ppm	10 µL		500 ppb			
PAH CCV	SV610807								5/17/23
BNA CCV	SV610808	SV609510, 9714, 8204							
PAH CCV	SV610809	SV610605	10 ppm	10 µL	200 µL	500 ppb	MeCl2	um	5-18-23
BNA CCV	SV610810	SV609510, 9714, 8204	200 ppm	20 µL/20 µL	200 µL	20 ppm	MeCl2	um	5-18-23
PAH CCV	SV610811	SV610605	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	5/22/23
PAH CCV	SV610812								5/23/23
OPP 200	13	SV610718	10 ppm	4 µL each	200 µL	200 ppb	MeCl2	JP	5/23/23
500	14			10		500			
1000	15			20		1000			
2000	16			40		2000			
3000	17			60		3000			
4000	18			80		4000			
ICV	19	SV609123		20		1000			
BNA CCV	SV610820	SV609510, 9714, 8204	200 ppm	20 µL each	200 µL	20 ppm	MeCl2	JP	5/24/23
PAH CCV	21	SV610605	10 ppm	10 µL		500 ppb			
PAH CCV	SV610822								5/25/23
PAH CCV	SV610823							JP	5/26/23
BNA CCV	SV610824	SV609510, 9714, 8204	200 ppm	20 µL each	200 µL	20 ppm	MeCl2	JP	5/26/23
BNA CCV	SV610825							JP	5/30/23
PAH CCV	SV610826	SV610605	10 ppm	10 µL		500 ppb			
PAH CCV	SV610827								5/31/23
PAH ICV	28	SV610801							6/1/23
PAH CCV	29	SV610605							6/2/23

31995 US/EN
8270 Calibration Mix #5, Revised
Lot# A0190887
Expire: 09/2028 Store: 10°C or colder 1 mL
2000 µg/mL each in Methylene Chloride
RESTEK

Work continued to Page

SIGNATURE   DATE

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 Megamix	SVB1501						MeCl2	JP	7/20/23
		31850 8270 MegaMix® Lot# A0189077 Expire: 02/2024 Store. 0°C or colder 500-1000 µg/mL each in Methylene Chloride 1 mL US/EN RESTEK							
8270 Spike #1	SVB1502	SVB1501	1000ppm	1mL	5mL	200ppm			
2	SVB1503	SVB1121							
BNA CCV	SVB1504	SVB112415 10µL	200 ppm	20/20/20 µL	200µL	20 ppm			
PAH CCV	SVB1505	SVB10605	10	10		500 ppb			
BNA CCV	SVB1506	SVB112415 10µL	200	20/20/20		20 ppm			7/24/23
PAH CCV	07	SVB10605	10	10		500 ppb			1
PAH CCV	08	"	10	10		500 ppb			7/24/23
BNA CCV	09	SVB112415 10µL	200	20/20/20		20 ppm			1
BNA CCV	SVB1510	"	"	"		"			7/25/23
PAH CCV	11	SVB10605	10	10		500ppb			1
PAH CCV	12	"	"	"		"		JP	7/26/23
BNA CCV	13	SVB112415 10µL	200ppm	20/20/20µL		20ppm	MeCl2		1
PAH Spike	SVB1514	SVB10802	1000ppm	2.5mL	50mL	5ppm	Acetone		
BNA CCV	SVB1515	SVB112415 10µL	200ppm	20/20/20µL	200µL	20ppm	MeCl2	JP	7/27/23
PAH CCV	SVB1516	SVB10605	10ppm	10µL	200µL	500ppb	MeCl2		1
BNA 60	17	SVB112415 10µL	200ppm	60 µL each	200µL	60 ppm			
50	18			50		50			
35	19			35		35			
20	20			20	400µL	20			
10	21			10	200µL	10			
5	22	SVB1520	20ppm	50		5			
2	23			20		2			
1	24			10		1			
0.5	25			5		0.5			
ICV	26	SVB1129/10 11511	200ppm	20	5mL	20			

JP 8/2/23

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	BNA CCV	SVB-120 01	SVB 112415 109H	2000 ppm	20/20/20µL	200µL	200ppm	MeCl2	JP	8/17/23
	~~DAH~~ DAH CCV	SVB-120 02	SVB10005	10ppm	10µL		50ppb			8/18/23
5	PAH CCV	SVB 120 03		10	20/20/20µL				JP	8/24/23
	BNA	04	SVB 112415 109H	200 ppm			200ppm			
	PAH CCV	SVB120 05	SVB10005	10ppm	10µL		50ppb	MeCl2	JP	8/22/23
	BNA 60	06	SVB12415 109H	200ppm	60/60/60 µL		60 ppm			
	50	07			50/50/50		50			
10	35	08			35/35/35		35			
	20	09			40/40/40	100µL	20			
	10	10			20/20/20	200µL	10			
	5	11	SVB120009	200ppm	50		5			
	2	12			20		2			
15	1	13			10		1			
	0.5	14			5		0.5			
	ICV	15	SVB 112415 109H	200ppm	20/20/20		20			
	DAH CCV	SVB120 16	SVB10005	10 ppm	10ppm		50ppb			8/23/23
	PAH ICV	SVB120 17	SVB10801							
20	PAH CCV	18	SVB10005							8/24/23
	BNA CCV	19	SVB 112415 109H	200	20 mL each		200ppm			
	DAH CCV	20	SVB10005	10	10mL		500ppb			8/26/23
	DAH CCV	SVB120 21	5						JP	8/28/23
	BNA CCV	22	SVB 112415 109H	20	20mL each		20 ppm			8/30/23
	PAH CCV	23	SVB10005	10	10mL		0.5			
25	BNA CCV	24	SVB 112415 109H	20	20mL each		20			8/31/23
	PAH CCV	25	SVB10005	10	10µL		0.5			
	PAH CCV	26					0.5			9/1/23
	PAH CCV	27					0.5			9/5/23
30	BNA CCV	28	SVB 112415 109H	20	20mL each		20			
	DAH CCV	29	SVB10005	10	10mL		0.5			9/6/23
	TEST Stock	SVB12030							JP	9/6/23

35	DAH CCV	31	SVB12030	40000ppm	0.5mL	50mL	400ppm	MeCl2		

Work continued to Page

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 MDL	SV612701	SV612509	1000 ppm	100 µL	10 mL	10 ppm	Acetone	JP	10/13/23
Spike A		10		1000		100			
8270 MDL	02	11		100		10			
Spike B		12	2000	250		50			
8270 Extra	03	SV612601		250		50			
MDL #1		02		500		100			
		03	5000	100		50			
		04	1000	500		50			
		05	2000	250		50			
8270 MDL Extra	04	06	1000	1000		100			
#2		07	2000	5		1			
BNA CCV	SV612705	SV611241/5 10911	200 ppm	20/20/20 µL	200 µL	20 ppm	MeCl2	JP	10/16/23
PAH CCV	06	SV610605	10	10 µL		500 ppb			
DFTPP Stock	SV612707							JP	10/16/23

NOTEBOOK INSERT LABEL

EPA 8270 GC/MS Tuning Solution II 47548-U
Lot: XA19099V EXP: MAR/2019 STORAGE: REFRIGERATE 1 x 1ml
DATE RECEIVED:____________
SUPELCO
Solutions within.
595 North Harrison Road • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ICV	SV6127 08	SV610801	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	10/16/23
PAH ICV	09								
DFTPP	10	SV612707	1000 ppm	50 µL	1 mL	50 ppm			
PAH CCV	SV6127 11	SV610605	10 ppm	10 µL	200 µL	500 ppb		JP	10/17/23
BNA ICV	12	SV611241/5 10911	200	20/20/20		20 ppm		JP	10/18/23
PAH CCV	13	SV610605	10	10		500 ppb			
8270 Megamix	14								

RESTEK
31850
[Notebook Label]
Lot# A0195663
Expire 09/2024 Store 0°C or colder
8270 MegaMix®
500-1000 µg/mL each in Methylene Chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
110 Benner Circle Bellefonte, PA 16823
814-353-1300
www.restek.com
Danger
Receipt Date: ________
Opened Date: ________
Made in USA
For Laboratory Use Only
1 mL

Analyte	Lab ID
Custom Stock	15

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
S-15651
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 222051034-01
Exp: Mar 14, 2024
PRODUCT OF THE USA
1 mL
5 comp(s)
Storage: Freeze (<-10 °C)
FOR LABORATORY USE ONLY
H315 H335
H332 H302
H350 H350
P338 P360
P331 P233
P262 P202
Refer to SDS
Signal Word: Danger
None Required

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PROJECT NO.

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	BNA cal	SV613001	SV612849	2000ppm	100/100/100µL	200µL	20ppm	MeCl2	JP	11/1/23
	8270 cal	SV613002							JP	11/1/23
5	MR #5									
	B/N Surr Mix	03								
10										
	PAH Working Stock	04	SV613002 / 03	2000 ppm / 1000	50µL / 100µL	10mL / 1	10ppm / 1	MeCl2 / 1		
15										
	PAH Mix	05								
20										
	B/N Surr	06								
	~~PAH ICV~~	~~07~~								
25	~~working stock~~									
	PAH ICV	07	SV613005 / 06	2000 ppm / 1000	50 µL / 100	10mL / 1	10ppm / 1	MeCl2 / 1		
	working stock									
	ISTD Mix	08							JP	11/2/23
30										
	BNA 8270 ISTD	09	SV612003	40000ppm	1mL	8mL	5000ppm	MeCl2		
35										

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SIGNATURE DATE

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Analyte		Lab ID		Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA	60	SVB131	01	SVB128 1/2/3	200 ppm	60 µL each	200 µL	60 ppm	MeCl2	JP	11/2/23
	50		02			50		50			
	35		03			35		35			
	20		04			40	400 µL	20			
	10		05			10	200 µL	10			
	5		06	SVB1804	20 ppm	50		5			
	2		07			20		2			
	1		08			10		1			
	0.5		09			05		0.5			
	ICV		10	SVB 112-9/10 113 16	200 ppm	20 µL each		20			
PAH	5000		11	SVB13004	10 ppm	500 µL	1 mL	5000 ppb	MeCl2	JP	11/2/23
	1000		12			100		1000			
	500		13			50		500			
	200		14			20		200			
	100		15			10		100			
	50		16	SVB131 12	1000 ppb	50		50			
	20		17			20		20			
	10		18			10		10			
PAH	ICV		19	SVB13007	10 ppm	~~10 µL~~ 10 µL	200 µL	500 ppb	MeCl2	JP	11/2/23
BNA	CCV	SVB131	20	SVB128 1/2/3	200 ppm	20/20/20 mL	1	20 ppm	MeCl2	JP	11/3/23
PAH	CCV		21	SVB13004	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	11/3/23
PAH	CCV	SVB131	22	1	1	1		1	1	JP	11/6/23
BNA	CCV	1	23	SVB128 1/2/3	200 ppm	20/20/20 mL		20 ppm	1	1	1
PAH	ICV	1	24	SVB13007	10 ppm	10 µL		500 ppb	MeCl2	JP	11/6/23
PAH	CCV	SVB131	25	SVB13004	1	1		1	1	1	11/7/23
BNA	CCV	SVB131	26	SVB128 1/2/3	200 ppm	20 µL each		20 ppm	MeCl2	JP	11/7/23
8270	Mega Mix	SVB131	27							JP	11/8/23
Custom SVOC Stock			28								

RESTEK
31850
Lot# A0199C00
Expire 12/2024
8270 MegaMix®
500-1000 µg/mL each in Methylene Chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package

110 Benner Circle Bellefonte, PA 16823
814-353-1300
www.restek.com

Store 0°C or colder

Warning Danger

Notebook Label

Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only

1 mL

AccuStandard® 125 Market St, New Haven, CT 06513
www.AccuStandard.com

S-15651
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 222051034-01
Exp: Mar 14, 2024
PRODUCT OF THE USA

1 mL
5 comp(s)
Storage: Freeze (<-10 °C)
FOR LABORATORY USE ONLY

H315 H335
H332 H302
H350 H350
P338 P360
P331 P233
P262 P202
Refer to SDS

Signal Word: Danger

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Analyte	Lot ID	ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
SV Surr Spike 01	SV613207	SV613127	1000ppm	1mL	5mL	200ppm	MeCl2	JP	11/28/23
SV01 Surr Spike 02	02	28	1	1	1	1	1	1	1
BNA CCV	03	SV612812/13	200ppm	20/20/20µL	200µL	20ppm	1	1	1
PAH CCV	04	SV613004	10ppm	10µL	1	500ppb	1	1	11/9/23
PAH CCV	05	1	1	1	1	1	1	1	1
BNA CCV	06	SV612812/13	200ppm	20µL each	2mL	20ppm	1	JP	11/16/23
BNA CCV	SV613207	1	1	1	1	1	1	1	11/10/23
PAH MDL Spike	08	SV610803	1000ppm	50µL	10mL	500ppb	Acetone	JP	11/13/23
PAH CCV	SV613209	SV613004	10ppm	10µL	200µL	500ppb	MeCl2	JP	11/14/23
PAH CCV	SV613210	SV613004	1	1	1	1	1	1	1
BNA CCV	11	SV612811/13	200ppm	20µL each	1	20ppm	1	1	11/15/23
BNA CCV	SV613212	1	1	1	1	1	1	1	1
PAH CCV	13	SV613004	10ppm	10µL	1	500ppb	1	1	1
PAH CCV	14	SV613007	1	1	1	1	1	1	1
BNA CCV	15	SV612811/13	200ppm	20/20/20µL	1	20ppm	1	1	11/16/23
BNA CCV	16	1	1	1	1	1	1	1	1
PAH CCV	17	SV613004	10ppm	10µL	1	500ppb	1	1	1
Surr Stock	SV613218							JP	11/16/23
PAH Surr	19	SV613218	1000ppm	1mL	100mL	10ppm	Acetone	1	1
PAH CCV	SV613220	SV613004	10ppm	10µL	200mL	500ppb	MeCl2	JP	11/20/23
PAH CCV	SV613221	1	1	1	1	1	1	JP	11/21/23
PAH CCV	SV613222	1	1	1	1	1	1	1	1
BNA CCV	23	SV612811/13	200ppm	20/20/20mL	200µL	20ppm	1	1	1
8270 Surr Stock	24	1	1	1	1	1	1	1	1

RESTEK
31887
Lot# A0197499
Expire 03/2029 Store 10°C or colder
Revised BN Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
110 Benner Circle Bellefonte, PA 16823
814-353-1300
www.restek.com
Notebook Label
Warning
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
M-8270-SS
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021323
Exp: Feb 15, 2033
PRODUCT OF THE USA
1 mL
6 comp(s)
Storage: Ambient (>5 °C)
FOR LABORATORY USE ONLY
H315 H335
H332 H302
H351 H350
P338 P360
P331 P233
P262 P202
Refer to SDS
Signal Word: Warning

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
M-8270-SS
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021323
Exp: Feb 15, 2033
PRODUCT OF THE USA
1 mL
6 comp(s)
Storage: Ambient (>5 °C)
FOR LABORATORY USE ONLY
H315 H335
H332 H302
H351 H350
P338 P360
P331 P233
P262 P202
Refer to SDS
Signal Word: Warning

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	8270 Surr	SV613301	SV613274	4000ppm	2mL	100mL	80ppm	Acetone	JP	11/21/23
	BNA CCV	SV613302	SV612811213	200ppm	20µL each	200µL	20ppm	MeCl2	JP	11/22/23
5	PAH CCV	03	SV613004	10ppm	10µL		500ppb			
	PAH ICV	04	SV613007							
	PAH LCV	05	SV613004						JP	11/27/23
	PAH CCV	SV613306							JP	11/28/23
	BNA CCV	SV613307	SV612811213	200ppm	20µL each		20ppm			
10	BNA CCV	08							JP	11/29/23
	PAH CCV	09	SV613004	10ppm	10µL		500ppb			
	BNA CCV	SV613310	SV612811213	200ppm	20µL each	200µL	20ppm	MeCl2	JP	11/30/23
	PAH CCV	11	SV613004	10ppm	10µL		500ppb		JP	11/30/23
	PAH CCV	12							JP	12/1/23
15	PAH CCV	SV613313							JP	12/4/23
	PAH 5000	14	SV613804	10ppm	500µL	1mL	5000 ppb			
	1000	15			100		1000			
	500	16			50		500			
	200	17			20		200			
20	100	18			10		100			
	50	19	SV613315	1000ppb	50		50			
	20	20			20		20			
	10	21			10		10			
	ICV	22	SV613007	10ppm	10	200µL	500			
25	PAH CCV	SV613323	SV613004		10µL		500ppb		JP	12/5/23
	BNA CCV	SV613324	SV612811213	200ppm	20µL each	200µL	20ppm	MeCl2	JP	12/5/23
	BNA CCV	25							JP	12/6/23
	PAH CCV	SV613326	SV613004	10ppm	10µL	200µL	500ppb	MeCl2	JP	12/6/23
	PAH ICV	27	SV613007						JP	12/7/23
30	BNA CCV	28	SV612811213	200ppm	20µL each		20ppm			
	BNA CCV	SV613329							JP	12/8/23
	PAH CCV	30	SV613004	10ppm	10µL		500ppb			
	PAH CCV	SV613331							JP	12/11/23
	BNA CCV	32	SV612811213	200ppm	20/20/20µL		20ppm			
35										

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Total Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

12-11-23
KPM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\
Report Date/Time: Monday, December 11, 2023 15:59:21

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - T	Torch Alignment	07:06:21 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
SmartTune - N	Nebulizer Gas Flow S	07:07:41 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
SmartTune - C	QID STD/DRC	07:09:15 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
SmartTune - K	KED Mode QID	07:10:44 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
SmartTune - S	STD Performance Che	07:12:13 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
SmartTune - M	Mass Calibration and I	07:15:42 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Sample	07:23:07 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Sample	07:28:27 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Sample	07:33:47 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Sample	07:39:06 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Blank	07:44:27 Mon 11-	CBlank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 1	07:48:56 Mon 11-	CStandard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 2	07:53:26 Mon 11-	CStandard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 3	07:57:55 Mon 11-	CStandard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 4	08:02:25 Mon 11-	CStandard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 5	08:06:55 Mon 11-	CStandard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 6	08:11:25 Mon 11-	CStandard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 7	08:15:54 Mon 11-	CStandard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 1	08:21:14 Mon 11-	CQC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 2	08:26:34 Mon 11-	CQC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	08:31:04 Mon 11-	CQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	08:36:24 Mon 11-	CQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	08:41:44 Mon 11-	CQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	MB1209WM1 2X	09:01:26 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	SB1209WM1 2X	09:06:45 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07b 2X	09:12:03 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07bD 2X	09:17:22 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07bL 10X	09:22:40 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07bMS 2X	09:27:58 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07bMSD 2X	09:33:17 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	12-053-07bPS 2X	09:38:37 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-01c 2X	09:44:14 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-01c 5X	09:52:27 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	10:08:59 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	10:14:19 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	10:19:38 Mon 11-	CSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, December 11, 2023 07:12:13
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\12dec23\X231211A\STD Performance Check.063
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6567.0	6566.976	137.635	2.1	Standard
	In	114.9	126987.1	126987.062	1835.560	1.4	Standard
	U	238.1	125077.4	125077.376	603.379	0.5	Standard
[	CeO	155.9	2787.1	0.022	0.000	1.5	Standard
|>	Ce	139.9	124115.5	124115.499	1573.848	1.3	Standard
[	Ce++	70.0	3256.1	0.026	0.003	11.9	Standard
	Bkgd	220.0	0.2	0.233	0.190	81.4	Standard

Current Conditions File Data

Current Value	Description
1.02	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-12.00	Deflector Voltage
1500.00	ICP RF Power
-1937.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.00	Cell Rod Offset STD [CRO]
11.00	Discriminator Threshold
-9.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
1.02	DRC Mode NEB
-8.00	DRC Mode QRO
-2.00	DRC Mode CRO
-14.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
375.00	Axial Field Voltage
13.00	KED Mode CRO
-12.00	KED Mode QRO
-6.00	KED Mode Cell Entrance Voltage
-25.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
0.10	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 08:41:44 Mon 11-Dec-23

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	7.025	1252	2054	0.711	
Mg	23.985	23.975	4635	2056	0.688	
In	114.904	114.925	22825	2055	0.694	
U	238.050	238.075	47459	2047	0.695	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ni	57.935	Linear Thru Zero	0.02	0.00	0.999933
Ni	59.933	Linear Thru Zero	0.01	0.00	0.999940
Ni	61.928	Linear Thru Zero	0.00	0.00	0.999941
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.00	0.00	0.999890
As-1	74.922	Linear Thru Zero	0.00	0.00	0.999924
Se	76.920	Linear Thru Zero	0.00	0.00	0.999626
Se	77.917	Linear Thru Zero	0.00	0.00	0.999601
Br	78.918	Linear Thru Zero	0.00	0.00	0.000000
Se	81.917	Linear Thru Zero	0.00	0.00	0.999937
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Pb	207.977	Linear Thru Zero	0.08	0.00	0.999776
Bi	208.980	Linear Thru Zero	0.00	0.00	0.000000
Th	232.038	Linear Thru Zero	0.00	0.00	0.000000
Ni-1	57.935	Linear Thru Zero	0.16	0.00	0.999969
Ni-1	59.933	Linear Thru Zero	0.07	0.00	0.999905
Ni-1	61.928	Linear Thru Zero	0.01	0.00	0.999863
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
As-2	74.922	Linear Thru Zero	0.01	0.00	0.999981
Y-1	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh-1	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, December 11, 2023 07:44:27
Report Date/Time: Monday, December 11, 2023 15:58:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Blank.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	128.3	2.3				ug/L		KED
|	**Ni-1**	60	59.0	9.4				ug/L		KED
|	**Ni-1**	62	8.7	53.3				ug/L		KED
|>	**Ge-1**	72	11286.1	1.1				ug/L		KED
⌊	**As-2**	75	0.7	86.6				ug/L		KED
	Y-1	89	20683.3	1.5				ug/L		KED
	Rh-1	103	155199.6	1.5				ug/L		KED
	In-1	115	14463.8	0.7				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, December 11, 2023 07:48:56
Report Date/Time: Monday, December 11, 2023 15:58:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 1.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	445.0	5.9				ug/L	128	KED
|	**Ni-1**	60	172.3	4.5				ug/L	59	KED
|	**Ni-1**	62	35.0	13.1				ug/L	9	KED
| >	**Ge-1**	72	11495.0	3.0				ug/L	11286	KED
⌊	**As-2**	75	18.0	22.2	**0.2000**	0.044	22.2	ug/L	1	KED
	Y-1	89	21110.3	2.8				ug/L	20683	KED
	Rh-1	103	157681.9	3.8				ug/L	155200	KED
	In-1	115	14559.6	2.8				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, December 11, 2023 07:53:26
Report Date/Time: Monday, December 11, 2023 15:58:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 2.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1085.7	6.1	**0.5000**	0.037	7.5	ug/L	128	KED
|	**Ni-1**	60	449.3	3.6	**0.5000**	0.027	5.4	ug/L	59	KED
|	**Ni-1**	62	77.3	6.4	**0.5000**	0.044	8.7	ug/L	9	KED
|>	**Ge-1**	72	11631.1	1.3				ug/L	11286	KED
⌊	**As-2**	75	39.7	2.9	**0.4916**	0.011	2.3	ug/L	1	KED
	Y-1	89	21299.2	2.4				ug/L	20683	KED
	Rh-1	103	161787.8	2.8				ug/L	155200	KED
	In-1	115	14908.3	2.3				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, December 11, 2023 07:57:55
Report Date/Time: Monday, December 11, 2023 15:58:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 3.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3944.5	2.7	**1.9995**	0.120	6.0	ug/L	128	KED
|	**Ni-1**	60	1737.8	3.8	**2.0081**	0.076	3.8	ug/L	59	KED
|	**Ni-1**	62	262.3	2.2	**1.9900**	0.048	2.4	ug/L	9	KED
|>	**Ge-1**	72	11684.4	3.6				ug/L	11286	KED
⌊	**As-2**	75	145.7	4.6	**1.9868**	0.086	4.3	ug/L	1	KED
	Y-1	89	21106.9	2.0				ug/L	20683	KED
	Rh-1	103	159159.8	1.0				ug/L	155200	KED
	In-1	115	14557.0	1.4				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, December 11, 2023 08:02:25
Report Date/Time: Monday, December 11, 2023 15:58:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 4.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	8877.6	3.3	**4.9333**	0.138	2.8	ug/L	128	KED
|	**Ni-1**	60	3865.5	1.0	**4.9290**	0.030	0.6	ug/L	59	KED
|	**Ni-1**	62	602.7	4.9	**4.9469**	0.275	5.6	ug/L	9	KED
|>	**Ge-1**	72	11699.8	1.1				ug/L	11286	KED
⌊	**As-2**	75	328.3	3.2	**4.9171**	0.201	4.1	ug/L	1	KED
	Y-1	89	21059.8	0.7				ug/L	20683	KED
	Rh-1	103	159090.7	1.5				ug/L	155200	KED
	In-1	115	14823.2	3.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, December 11, 2023 08:06:55
Report Date/Time: Monday, December 11, 2023 15:58:30
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 5.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	30838.2	5.2	**20.1168**	1.220	6.1	ug/L	128	KED
|	**Ni-1**	60	13353.9	4.7	**20.1091**	1.024	5.1	ug/L	59	KED
|	**Ni-1**	62	2072.2	4.1	**20.1064**	0.893	4.4	ug/L	9	KED
| >	**Ge-1**	72	9282.7	1.1				ug/L	11286	KED
⌊	**As-2**	75	1202.4	3.9	**20.1651**	0.776	3.8	ug/L	1	KED
	Y-1	89	16783.2	2.2				ug/L	20683	KED
	Rh-1	103	126758.3	1.5				ug/L	155200	KED
	In-1	115	11832.2	3.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, December 11, 2023 08:11:25
Report Date/Time: Monday, December 11, 2023 15:58:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 6.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	64585.7	2.7	**39.8669**	1.547	3.9	ug/L	128	KED
|	**Ni-1**	60	27989.7	2.0	**39.8732**	1.387	3.5	ug/L	59	KED
|	**Ni-1**	62	4432.7	3.2	**40.0439**	1.539	3.8	ug/L	9	KED
| >	**Ge-1**	72	9948.5	2.0				ug/L	11286	KED
⌊	**As-2**	75	2544.2	0.9	**39.9643**	0.796	2.0	ug/L	1	KED
	Y-1	89	17647.6	2.0				ug/L	20683	KED
	Rh-1	103	133415.8	1.4				ug/L	155200	KED
	In-1	115	12417.2	1.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, December 11, 2023 08:15:54
Report Date/Time: Monday, December 11, 2023 15:58:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\Standard 7.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	164603.8	1.6	**99.7368**	3.359	3.4	ug/L	128	KED
|	**Ni-1**	60	70027.6	0.6	**99.4212**	2.454	2.5	ug/L	59	KED
|	**Ni-1**	62	10950.9	1.2	**99.2770**	2.695	2.7	ug/L	9	KED
|>	**Ge-1**	72	10277.0	1.8				ug/L	11286	KED
⌊	**As-2**	75	6568.5	1.6	**99.9787**	1.061	1.1	ug/L	1	KED
	Y-1	89	18623.8	1.4				ug/L	20683	KED
	Rh-1	103	140006.4	0.7				ug/L	155200	KED
	In-1	115	13209.2	3.0				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, December 11, 2023 08:21:14
Report Date/Time: Monday, December 11, 2023 15:58:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 1.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	90760.6	2.4	**50.2804**	1.147	2.3	ug/L	128	KED
|	**Ni-1**	60	39031.3	2.8	**50.6637**	1.089	2.1	ug/L	59	KED
|	**Ni-1**	62	6083.3	3.5	**50.4175**	1.251	2.5	ug/L	9	KED
| >	**Ge-1**	72	11228.4	1.1				ug/L	11286	KED
⌊	**As-2**	75	3369.7	1.2	**46.9400**	0.699	1.5	ug/L	1	KED
	Y-1	89	20384.5	1.9				ug/L	20683	KED
	Rh-1	103	151028.0	3.3				ug/L	155200	KED
	In-1	115	14449.8	3.6				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	100.561	
|	Ni-1	60	101.327	
|	Ni-1	62	100.835	
| >	Ge-1	72		99.489
⌊	As-2	75	93.880	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, December 11, 2023 08:26:34
Report Date/Time: Monday, December 11, 2023 15:58:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 2.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	147.1	8.8	**0.0108**	0.006	56.8	ug/L	128	KED
|	**Ni-1**	60	68.7	4.2	**0.0130**	0.006	43.6	ug/L	59	KED
|	**Ni-1**	62	11.3	13.5	**0.0223**	0.011	48.7	ug/L	9	KED
| >	**Ge-1**	72	11231.7	2.1				ug/L	11286	KED
⌊	**As-2**	75	2.7	43.3	**0.0281**	0.017	60.6	ug/L	1	KED
	Y-1	89	20259.7	4.1				ug/L	20683	KED
	Rh-1	103	149691.6	1.5				ug/L	155200	KED
	In-1	115	14474.3	2.4				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		99.518
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 08:31:04
Report Date/Time: Monday, December 11, 2023 15:58:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 6.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	63387.2	2.6	**39.9796**	1.972	4.9	ug/L	128	KED
|	**Ni-1**	60	27787.0	1.4	**41.0585**	1.449	3.5	ug/L	59	KED
|	**Ni-1**	62	4320.0	3.4	**40.7514**	1.534	3.8	ug/L	9	KED
|>	**Ge-1**	72	9866.1	2.3				ug/L	11286	KED
⌊	**As-2**	75	2585.6	3.8	**40.9788**	0.781	1.9	ug/L	1	KED
	Y-1	89	17636.6	2.2				ug/L	20683	KED
	Rh-1	103	131328.8	3.7				ug/L	155200	KED
	In-1	115	12593.7	3.8				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	99.949	
|	Ni-1	60	102.646	
|	Ni-1	62	101.878	
|>	Ge-1	72		87.418
⌊	As-2	75	102.447	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 08:36:24
Report Date/Time: Monday, December 11, 2023 15:58:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 7.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	33141.6	0.8	**19.7586**	0.283	1.4	ug/L	128	KED
|	**Ni-1**	60	14360.5	0.4	**20.0586**	0.097	0.5	ug/L	59	KED
|	**Ni-1**	62	2217.2	2.8	**19.7803**	0.688	3.5	ug/L	9	KED
|>	**Ge-1**	72	10411.5	0.7				ug/L	11286	KED
⌊	**As-2**	75	1328.1	3.3	**19.9437**	0.591	3.0	ug/L	1	KED
	Y-1	89	18547.7	1.0				ug/L	20683	KED
	Rh-1	103	137952.6	3.1				ug/L	155200	KED
	In-1	115	13022.8	3.3				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	98.793	
|	Ni-1	60	100.293	
|	Ni-1	62	98.902	
|>	Ge-1	72		92.250
⌊	As-2	75	99.718	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 08:41:44
Report Date/Time: Monday, December 11, 2023 15:58:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 8.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	201.3	7.7	**0.0399**	0.009	23.2	ug/L	128	KED
|	**Ni-1**	60	85.0	4.2	**0.0332**	0.005	14.5	ug/L	59	KED
|	**Ni-1**	62	16.3	15.4	**0.0628**	0.021	33.7	ug/L	9	KED
|>	**Ge-1**	72	11331.5	0.7				ug/L	11286	KED
⌊	**As-2**	75	1.0	100.0	**0.0046**	0.014	302.8	ug/L	1	KED
	Y-1	89	20459.0	0.8				ug/L	20683	KED
	Rh-1	103	150983.8	1.7				ug/L	155200	KED
	In-1	115	14592.4	2.8				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		100.402
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: MB1209WM1 2X

Sample Date/Time: Monday, December 11, 2023 09:01:26
Report Date/Time: Monday, December 11, 2023 15:58:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\MB1209WM1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	460.0	2.9	**0.1852**	0.010	5.4	ug/L	128	KED
|	**Ni-1**	60	186.7	7.8	**0.1676**	0.028	16.8	ug/L	59	KED
|	**Ni-1**	62	27.7	13.7	**0.1584**	0.027	17.2	ug/L	9	KED
|>	**Ge-1**	72	11200.7	3.6				ug/L	11286	KED
⌊	**As-2**	75	2.0	50.0	**0.0184**	0.013	72.0	ug/L	1	KED
	Y-1	89	20283.7	3.4				ug/L	20683	KED
	Rh-1	103	145593.3	3.0				ug/L	155200	KED
	In-1	115	14727.2	2.6				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		99.243
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: SB1209WM1 2X

Sample Date/Time: Monday, December 11, 2023 09:06:45
Report Date/Time: Monday, December 11, 2023 15:58:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\SB1209WM1 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86767.5	1.5	**48.2638**	0.456	0.9	ug/L	128	KED
|	**Ni-1**	60	37719.7	1.1	**49.1662**	0.250	0.5	ug/L	59	KED
|	**Ni-1**	62	5804.2	1.3	**48.3138**	0.841	1.7	ug/L	9	KED
|>	**Ge-1**	72	11181.7	0.9				ug/L	11286	KED
⌊	**As-2**	75	3363.1	0.4	**47.0431**	0.603	1.3	ug/L	1	KED
	Y-1	89	19771.7	2.9				ug/L	20683	KED
	Rh-1	103	144747.1	1.7				ug/L	155200	KED
	In-1	115	14431.0	2.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		99.075
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07b 2X

Sample Date/Time: Monday, December 11, 2023 09:12:03
Report Date/Time: Monday, December 11, 2023 15:58:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07b 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1376.9	2.6	**0.6571**	0.009	1.4	ug/L	128	KED
|	**Ni-1**	60	530.0	5.2	**0.5801**	0.025	4.3	ug/L	59	KED
|	**Ni-1**	62	84.0	8.3	**0.5939**	0.071	11.9	ug/L	9	KED
|>	**Ge-1**	72	11782.9	2.2				ug/L	11286	KED
⌊	**As-2**	75	31.7	23.7	**0.4114**	0.099	24.2	ug/L	1	KED
	Y-1	89	21937.8	3.1				ug/L	20683	KED
	Rh-1	103	154289.5	3.0				ug/L	155200	KED
	In-1	115	15561.7	0.4				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		104.401
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07bD 2X

Sample Date/Time: Monday, December 11, 2023 09:17:22
Report Date/Time: Monday, December 11, 2023 15:58:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07bD 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1440.9	1.1	**0.6605**	0.020	3.0	ug/L	128	KED
|	**Ni-1**	60	612.3	7.5	**0.6510**	0.032	5.0	ug/L	59	KED
|	**Ni-1**	62	82.7	28.2	**0.5559**	0.178	32.0	ug/L	9	KED
|>	**Ge-1**	72	12279.9	3.2				ug/L	11286	KED
⌊	**As-2**	75	35.3	8.2	**0.4419**	0.050	11.3	ug/L	1	KED
	Y-1	89	22615.2	1.9				ug/L	20683	KED
	Rh-1	103	159444.3	1.2				ug/L	155200	KED
	In-1	115	16160.0	1.8				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		108.806
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07bL 10X

Sample Date/Time: Monday, December 11, 2023 09:22:40
Report Date/Time: Monday, December 11, 2023 15:58:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07bL 10X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	474.4	2.4	**0.1723**	0.006	3.8	ug/L	128	KED
|	**Ni-1**	60	190.7	14.0	**0.1527**	0.032	21.3	ug/L	59	KED
|	**Ni-1**	62	29.0	20.7	**0.1507**	0.046	30.2	ug/L	9	KED
|>	**Ge-1**	72	12156.2	0.3				ug/L	11286	KED
⌊	**As-2**	75	7.0	49.5	**0.0809**	0.045	55.3	ug/L	1	KED
	Y-1	89	22171.5	0.7				ug/L	20683	KED
	Rh-1	103	158262.9	1.3				ug/L	155200	KED
	In-1	115	16103.4	1.2				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		107.709
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07bMS 2X

Sample Date/Time: Monday, December 11, 2023 09:27:58
Report Date/Time: Monday, December 11, 2023 15:58:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07bMS 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	97157.3	1.1	**49.4657**	0.974	2.0	ug/L	128	KED
|	**Ni-1**	60	41884.3	0.4	**49.9716**	1.054	2.1	ug/L	59	KED
|	**Ni-1**	62	6415.8	3.8	**48.8512**	0.688	1.4	ug/L	9	KED
| >	**Ge-1**	72	12220.6	2.4				ug/L	11286	KED
⌊	**As-2**	75	3773.5	3.0	**48.3008**	1.303	2.7	ug/L	1	KED
	Y-1	89	22887.0	0.5				ug/L	20683	KED
	Rh-1	103	159978.8	0.9				ug/L	155200	KED
	In-1	115	16430.7	1.7				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		108.280
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07bMSD 2X

Sample Date/Time: Monday, December 11, 2023 09:33:17
Report Date/Time: Monday, December 11, 2023 15:58:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07bMSD 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	100023.0	2.1	**51.2334**	0.787	1.5	ug/L	128	KED
|	**Ni-1**	60	43409.6	2.6	**52.1125**	1.654	3.2	ug/L	59	KED
|	**Ni-1**	62	6644.5	1.2	**50.9317**	0.855	1.7	ug/L	9	KED
|>	**Ge-1**	72	12145.2	2.2				ug/L	11286	KED
⌊	**As-2**	75	4036.9	1.3	**51.9938**	0.545	1.0	ug/L	1	KED
	Y-1	89	22660.0	2.5				ug/L	20683	KED
	Rh-1	103	157260.9	0.6				ug/L	155200	KED
	In-1	115	16285.3	1.0				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		107.611
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 12-053-07bPS 2X

Sample Date/Time: Monday, December 11, 2023 09:38:37
Report Date/Time: Monday, December 11, 2023 15:58:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\12-053-07bPS 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	80121.2	2.8	**40.9034**	1.059	2.6	ug/L	128	KED
|	**Ni-1**	60	34557.8	1.6	**41.3402**	0.544	1.3	ug/L	59	KED
|	**Ni-1**	62	5271.3	1.1	**40.2701**	0.709	1.8	ug/L	9	KED
|>	**Ge-1**	72	12180.5	1.3				ug/L	11286	KED
⌊	**As-2**	75	3103.7	0.5	**39.8565**	0.715	1.8	ug/L	1	KED
	Y-1	89	22340.8	0.4				ug/L	20683	KED
	Rh-1	103	156975.4	0.1				ug/L	155200	KED
	In-1	115	15917.9	1.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		107.925
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-01c 2X

Sample Date/Time: Monday, December 11, 2023 09:44:14
Report Date/Time: Monday, December 11, 2023 15:58:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\11-272-01c 2X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	4053.4	1.2	**4.3329**	0.072	1.7	ug/L	128	KED
|	**Ni-1**	60	1781.8	3.1	**4.4607**	0.176	3.9	ug/L	59	KED
|	**Ni-1**	62	293.7	11.0	**4.7033**	0.536	11.4	ug/L	9	KED
|>	**Ge-1**	72	5733.8	0.7				ug/L	11286	KED
⌊	**As-2**	75	68.3	6.1	**1.8547**	0.103	5.6	ug/L	1	KED
	Y-1	89	12917.8	1.6				ug/L	20683	KED
	Rh-1	103	70289.2	0.6				ug/L	155200	KED
	In-1	115	8620.3	0.5				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		50.804
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-01c 5X

Sample Date/Time: Monday, December 11, 2023 09:52:27
Report Date/Time: Monday, December 11, 2023 15:59:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\11-272-01c 5X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	2779.0	2.9	**1.7125**	0.049	2.8	ug/L	128	KED
|	**Ni-1**	60	1201.7	2.7	**1.7308**	0.037	2.1	ug/L	59	KED
|	**Ni-1**	62	238.0	7.3	**2.2134**	0.157	7.1	ug/L	9	KED
|>	**Ge-1**	72	9706.6	0.7				ug/L	11286	KED
⌊	**As-2**	75	50.7	7.5	**0.8076**	0.067	8.3	ug/L	1	KED
	Y-1	89	19557.7	1.1				ug/L	20683	KED
	Rh-1	103	117303.3	0.9				ug/L	155200	KED
	In-1	115	13201.3	1.0				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		86.005
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 10:08:59
Report Date/Time: Monday, December 11, 2023 15:59:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 6.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	82061.1	1.9	**37.8321**	0.823	2.2	ug/L	128	KED
|	**Ni-1**	60	35616.7	1.8	**38.4737**	0.608	1.6	ug/L	59	KED
|	**Ni-1**	62	5490.7	1.6	**37.8753**	0.591	1.6	ug/L	9	KED
| >	**Ge-1**	72	13486.7	0.5				ug/L	11286	KED
⌊	**As-2**	75	3340.4	2.3	**38.7333**	0.717	1.9	ug/L	1	KED
	Y-1	89	24567.1	3.5				ug/L	20683	KED
	Rh-1	103	170828.7	1.2				ug/L	155200	KED
	In-1	115	17547.8	2.7				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		119.498
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 10:14:19
Report Date/Time: Monday, December 11, 2023 15:59:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 7.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	43406.6	1.5	**20.0559**	0.341	1.7	ug/L	128	KED
|	**Ni-1**	60	18638.8	3.1	**20.1766**	0.624	3.1	ug/L	59	KED
|	**Ni-1**	62	2890.3	2.9	**19.9798**	0.477	2.4	ug/L	9	KED
|>	**Ge-1**	72	13434.3	0.6				ug/L	11286	KED
⌊	**As-2**	75	1792.1	2.9	**20.8585**	0.597	2.9	ug/L	1	KED
	Y-1	89	24713.4	3.4				ug/L	20683	KED
	Rh-1	103	167538.5	1.6				ug/L	155200	KED
	In-1	115	17474.0	0.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		119.034
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 10:19:38
Report Date/Time: Monday, December 11, 2023 15:59:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211A2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211A\QC Std 8.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	234.7	6.9	**0.0388**	0.007	19.0	ug/L	128	KED
|	**Ni-1**	60	99.0	4.0	**0.0320**	0.004	12.2	ug/L	59	KED
|	**Ni-1**	62	24.0	15.0	**0.0961**	0.025	25.8	ug/L	9	KED
|>	**Ge-1**	72	13335.2	0.5				ug/L	11286	KED
⌊	**As-2**	75	2.0	50.0	**0.0142**	0.012	82.7	ug/L	1	KED
	Y-1	89	24532.4	1.3				ug/L	20683	KED
	Rh-1	103	168318.5	0.9				ug/L	155200	KED
	In-1	115	17239.2	0.1				ug/L	14464	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		118.156
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Dataset Report

12-11-23
KDM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\
Report Date/Time: Monday, December 11, 2023 15:52:09

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	10:27:06 Mon 11-D	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 1	10:31:35 Mon 11-D	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 2	10:36:05 Mon 11-D	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 3	10:40:35 Mon 11-D	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 4	10:45:05 Mon 11-D	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 5	10:49:35 Mon 11-D	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 6	10:54:04 Mon 11-D	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 7	10:58:34 Mon 11-D	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 1	11:03:53 Mon 11-D	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 2	11:09:13 Mon 11-D	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	11:17:57 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	11:23:17 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	11:28:37 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-06a 2X	11:33:56 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-08c 2X	11:39:15 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-11e 2X	11:44:48 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-13e 2X	11:53:56 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-01f 2X	11:59:15 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03f 2X	12:04:34 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-05c 2X	12:09:52 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-07a 2X	12:15:11 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-08f 2X	12:20:30 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-266-01c 2X	12:25:50 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	12:31:09 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	12:36:28 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	12:41:48 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	MB1211D1 2X	12:48:51 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	SB1211D1 2X	12:54:11 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03g 2X	12:59:30 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gD 2X	13:04:48 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gL 10X	13:10:08 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gMS 2X	13:15:27 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gMSD 2X	13:20:46 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-06b 2X	13:26:04 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-08d 2X	13:31:22 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-11f 2X	13:36:41 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	13:41:59 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	13:47:19 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	13:52:39 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-13f 2X	13:57:08 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-01g 2X	14:02:28 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-05d 2X	14:07:47 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-07b 2X	14:13:06 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-08g 2X	14:18:25 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-266-01d 2X	14:23:45 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	14:29:04 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	14:34:24 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	14:39:44 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-02c 10X	14:46:44 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-03c 10X	14:52:03 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	

11-272-04c 10X	14:57:22 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-05c 10X	15:02:41 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-01d 10X FF	15:08:00 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-02d 10X	15:13:18 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-03d 10X	15:18:37 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-04d 10X	15:23:57 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-05d 10X	15:29:16 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 6	15:34:35 Mon 11-[QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 7	15:39:55 Mon 11-[QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 8	15:45:15 Mon 11-[QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ni	57.935	Linear Thru Zero	0.03	0.00	0.999779
Ni	59.933	Linear Thru Zero	0.01	0.00	0.999886
Ni	61.928	Linear Thru Zero	-0.00	0.00	-0.419754
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.00	0.00	0.999705
As-1	74.922	Linear Thru Zero	0.01	0.00	0.999804
Se	76.920	Linear Thru Zero	0.00	0.00	0.999681
Se	77.917	Linear Thru Zero	0.00	0.00	0.999031
Br	78.918	Linear Thru Zero	0.00	0.00	0.000000
Se	81.917	Linear Thru Zero	0.00	0.00	0.999780
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Pb	207.977	Linear Thru Zero	0.08	0.00	0.999041
Bi	208.980	Linear Thru Zero	0.00	0.00	0.000000
Th	232.038	Linear Thru Zero	0.00	0.00	0.000000
Ni-1	57.935	Linear Thru Zero	0.15	0.00	0.999908
Ni-1	59.933	Linear Thru Zero	0.06	0.00	0.999890
Ni-1	61.928	Linear Thru Zero	0.01	0.00	0.999878
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
As-2	74.922	Linear Thru Zero	0.01	0.00	0.999866
Y-1	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh-1	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, December 11, 2023 10:27:06
Report Date/Time: Monday, December 11, 2023 15:49:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Blank.001

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	80.6	11.2				ug/L		KED
|	**Ni-1**	60	35.7	6.5				ug/L		KED
|	**Ni-1**	62	14.7	7.9				ug/L		KED
| >	**Ge-1**	72	16172.5	0.4				ug/L		KED
⌊	**As-2**	75	2.3	24.7				ug/L		KED
	Y-1	89	30089.7	1.7				ug/L		KED
	Rh-1	103	200857.2	0.5				ug/L		KED
	In-1	115	21406.7	2.2				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, December 11, 2023 10:31:35
Report Date/Time: Monday, December 11, 2023 15:49:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 1.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	653.7	5.1				ug/L	81	KED
|	**Ni-1**	60	278.0	2.5				ug/L	36	KED
|	**Ni-1**	62	47.0	38.7				ug/L	15	KED
|>	**Ge-1**	72	17493.0	2.8				ug/L	16172	KED
⌊	**As-2**	75	24.3	6.3	**0.2000**	0.018	9.2	ug/L	2	KED
	Y-1	89	32802.3	1.5				ug/L	30090	KED
	Rh-1	103	218682.1	0.9				ug/L	200857	KED
	In-1	115	22699.3	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, December 11, 2023 10:36:05
Report Date/Time: Monday, December 11, 2023 15:49:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 2.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1511.7	1.1	**0.5000**	0.012	2.5	ug/L	81	KED
|	**Ni-1**	60	690.0	0.9	**0.5000**	0.004	0.8	ug/L	36	KED
|	**Ni-1**	62	105.3	20.9	**0.5000**	0.121	24.3	ug/L	15	KED
|>	**Ge-1**	72	17368.9	1.4				ug/L	16172	KED
⌊	**As-2**	75	69.3	10.2	**0.5134**	0.059	11.4	ug/L	2	KED
	Y-1	89	32012.2	0.9				ug/L	30090	KED
	Rh-1	103	216053.5	0.6				ug/L	200857	KED
	In-1	115	22821.3	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, December 11, 2023 10:40:35
Report Date/Time: Monday, December 11, 2023 15:49:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 3.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	5279.2	3.8	**1.9933**	0.039	2.0	ug/L	81	KED
|	**Ni-1**	60	2331.5	2.7	**1.9890**	0.033	1.7	ug/L	36	KED
|	**Ni-1**	62	354.0	8.4	**1.9979**	0.153	7.7	ug/L	15	KED
| >	**Ge-1**	72	16724.1	1.9				ug/L	16172	KED
⌊	**As-2**	75	215.3	1.6	**1.9762**	0.038	1.9	ug/L	2	KED
	Y-1	89	31626.6	1.5				ug/L	30090	KED
	Rh-1	103	210340.6	1.0				ug/L	200857	KED
	In-1	115	22089.8	0.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, December 11, 2023 10:45:05
Report Date/Time: Monday, December 11, 2023 15:49:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 4.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	12237.9	1.2	**4.9136**	0.108	2.2	ug/L	81	KED
|	**Ni-1**	60	5292.3	3.3	**4.8946**	0.098	2.0	ug/L	36	KED
|	**Ni-1**	62	839.4	4.8	**4.9447**	0.076	1.5	ug/L	15	KED
|>	**Ge-1**	72	17492.0	3.4				ug/L	16172	KED
⌊	**As-2**	75	487.3	3.9	**4.8841**	0.164	3.4	ug/L	2	KED
	Y-1	89	32382.7	0.8				ug/L	30090	KED
	Rh-1	103	216484.0	0.6				ug/L	200857	KED
	In-1	115	22588.0	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, December 11, 2023 10:49:35
Report Date/Time: Monday, December 11, 2023 15:50:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 5.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	42927.3	1.2	**20.1402**	0.183	0.9	ug/L	81	KED
|	**Ni-1**	60	18537.7	1.9	**20.1341**	0.323	1.6	ug/L	36	KED
|	**Ni-1**	62	2886.6	1.5	**20.1359**	0.257	1.3	ug/L	15	KED
|>	**Ge-1**	72	13603.5	0.4				ug/L	16172	KED
⌊	**As-2**	75	1799.8	1.4	**20.1943**	0.314	1.6	ug/L	2	KED
	Y-1	89	25065.0	1.0				ug/L	30090	KED
	Rh-1	103	168208.5	2.3				ug/L	200857	KED
	In-1	115	17707.0	0.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, December 11, 2023 10:54:04
Report Date/Time: Monday, December 11, 2023 15:50:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 6.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	79823.5	1.0	**39.4945**	0.916	2.3	ug/L	81	KED
|	**Ni-1**	60	34514.3	1.9	**39.5032**	1.122	2.8	ug/L	36	KED
|	**Ni-1**	62	5385.3	0.4	**39.5322**	0.776	2.0	ug/L	15	KED
|>	**Ge-1**	72	13520.4	1.5				ug/L	16172	KED
⌊	**As-2**	75	3365.1	1.5	**39.5639**	1.146	2.9	ug/L	2	KED
	Y-1	89	25148.5	1.0				ug/L	30090	KED
	Rh-1	103	166473.4	0.9				ug/L	200857	KED
	In-1	115	17568.6	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, December 11, 2023 10:58:34
Report Date/Time: Monday, December 11, 2023 15:50:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 7.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	230964.2	1.4	**99.6856**	1.221	1.2	ug/L	81	KED
|	**Ni-1**	60	99220.8	1.4	**99.5785**	0.947	1.0	ug/L	36	KED
|	**Ni-1**	62	15381.9	1.2	**99.4948**	0.414	0.4	ug/L	15	KED
|>	**Ge-1**	72	15744.0	1.1				ug/L	16172	KED
⌊	**As-2**	75	9611.2	2.8	**99.4878**	1.881	1.9	ug/L	2	KED
	Y-1	89	29316.7	0.5				ug/L	30090	KED
	Rh-1	103	196768.9	0.9				ug/L	200857	KED
	In-1	115	20948.7	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, December 11, 2023 11:03:53
Report Date/Time: Monday, December 11, 2023 15:50:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 1.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	125703.3	2.8	**50.7116**	0.281	0.6	ug/L	81	KED
|	**Ni-1**	60	54169.2	1.6	**50.8251**	0.514	1.0	ug/L	36	KED
|	**Ni-1**	62	8370.8	1.9	**50.5881**	0.211	0.4	ug/L	15	KED
|>	**Ge-1**	72	16836.9	2.3				ug/L	16172	KED
⌊	**As-2**	75	5012.5	3.5	**48.5102**	1.277	2.6	ug/L	2	KED
	Y-1	89	31682.4	1.3				ug/L	30090	KED
	Rh-1	103	210434.7	1.1				ug/L	200857	KED
	In-1	115	22233.8	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	101.423	
|	Ni-1	60	101.650	
|	Ni-1	62	101.176	
|>	Ge-1	72		104.108
⌊	As-2	75	97.020	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, December 11, 2023 11:09:13
Report Date/Time: Monday, December 11, 2023 15:50:10
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 2.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	102.4	6.9	**0.0104**	0.003	29.7	ug/L	81	KED
|	**Ni-1**	60	56.3	16.1	**0.0218**	0.009	42.2	ug/L	36	KED
|	**Ni-1**	62	10.3	20.1	**-0.0254**	0.014	53.8	ug/L	15	KED
|>	**Ge-1**	72	15722.0	1.8				ug/L	16172	KED
⌊	**As-2**	75	3.0	33.3	**0.0076**	0.011	139.6	ug/L	2	KED
	Y-1	89	29797.1	2.9				ug/L	30090	KED
	Rh-1	103	194034.6	1.3				ug/L	200857	KED
	In-1	115	20995.1	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.214
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 11:17:57
Report Date/Time: Monday, December 11, 2023 15:50:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	88590.9	1.4	**40.3349**	0.867	2.1	ug/L	81	KED
|	**Ni-1**	60	38027.9	1.8	**40.2528**	0.335	0.8	ug/L	36	KED
|	**Ni-1**	62	5834.2	3.0	**39.7585**	0.206	0.5	ug/L	15	KED
|>	**Ge-1**	72	14921.8	2.6				ug/L	16172	KED
⌊	**As-2**	75	3745.8	1.4	**40.9091**	0.531	1.3	ug/L	2	KED
	Y-1	89	28056.9	2.1				ug/L	30090	KED
	Rh-1	103	179467.4	1.4				ug/L	200857	KED
	In-1	115	20147.7	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.267
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 11:23:17
Report Date/Time: Monday, December 11, 2023 15:50:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	43909.0	3.0	**20.4276**	0.755	3.7	ug/L	81	KED
|	**Ni-1**	60	19179.9	2.2	**20.7447**	0.383	1.8	ug/L	36	KED
|	**Ni-1**	62	3010.0	2.4	**20.9387**	0.535	2.6	ug/L	15	KED
|>	**Ge-1**	72	14596.1	3.9				ug/L	16172	KED
⌊	**As-2**	75	1883.5	5.5	**21.0120**	0.801	3.8	ug/L	2	KED
	Y-1	89	27300.4	2.2				ug/L	30090	KED
	Rh-1	103	175859.5	2.3				ug/L	200857	KED
	In-1	115	19353.2	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		90.253
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 11:28:37
Report Date/Time: Monday, December 11, 2023 15:50:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	143.3	1.7	**0.0266**	0.003	10.8	ug/L	81	KED
|	**Ni-1**	60	64.0	1.6	**0.0280**	0.002	8.8	ug/L	36	KED
|	**Ni-1**	62	8.0	33.1	**-0.0414**	0.018	44.1	ug/L	15	KED
|>	**Ge-1**	72	16103.4	3.6				ug/L	16172	KED
⌊	**As-2**	75	2.0	50.0	**-0.0033**	0.010	318.0	ug/L	2	KED
	Y-1	89	30529.3	3.4				ug/L	30090	KED
	Rh-1	103	196960.5	0.7				ug/L	200857	KED
	In-1	115	21823.2	0.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		99.573
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-06a 2X

Sample Date/Time: Monday, December 11, 2023 11:33:56
Report Date/Time: Monday, December 11, 2023 15:50:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-06a 2X.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	5502.9	9.2	**2.5821**	0.208	8.1	ug/L	81	KED
|	**Ni-1**	60	2521.2	3.0	**2.7536**	0.051	1.9	ug/L	36	KED
|	**Ni-1**	62	375.7	3.5	**2.5883**	0.126	4.9	ug/L	15	KED
|>	**Ge-1**	72	14289.8	1.3				ug/L	16172	KED
⌊	**As-2**	75	339.0	4.8	**3.8432**	0.154	4.0	ug/L	2	KED
	Y-1	89	27873.2	1.4				ug/L	30090	KED
	Rh-1	103	167718.5	0.7				ug/L	200857	KED
	In-1	115	19241.5	0.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		88.359
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-08c 2X

Sample Date/Time: Monday, December 11, 2023 11:39:15
Report Date/Time: Monday, December 11, 2023 15:50:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-08c 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌜	**Ni-1**	58	22469.8	0.8	**10.6167**	0.057	0.5	ug/L	81	KED
|	**Ni-1**	60	9588.2	0.7	**10.5334**	0.068	0.6	ug/L	36	KED
|	**Ni-1**	62	1480.7	6.7	**10.4312**	0.673	6.4	ug/L	15	KED
|>	**Ge-1**	72	14341.2	1.3				ug/L	16172	KED
⌞	**As-2**	75	897.7	7.0	**10.1768**	0.609	6.0	ug/L	2	KED
	Y-1	89	27385.2	1.3				ug/L	30090	KED
	Rh-1	103	170273.3	1.8				ug/L	200857	KED
	In-1	115	18946.3	0.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌜	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		88.677
⌞	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-11e 2X

Sample Date/Time: Monday, December 11, 2023 11:44:48
Report Date/Time: Monday, December 11, 2023 15:50:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-11e 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	49224.3	1.4	**22.4009**	0.175	0.8	ug/L	81	KED
|	**Ni-1**	60	21430.7	1.3	**22.6776**	0.106	0.5	ug/L	36	KED
|	**Ni-1**	62	3301.0	2.7	**22.4701**	0.623	2.8	ug/L	15	KED
|>	**Ge-1**	72	14914.4	1.4				ug/L	16172	KED
⌊	**As-2**	75	297.0	7.9	**3.2218**	0.234	7.3	ug/L	2	KED
	Y-1	89	31846.1	1.7				ug/L	30090	KED
	Rh-1	103	176387.9	2.0				ug/L	200857	KED
	In-1	115	19762.5	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.221
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-13e 2X

Sample Date/Time: Monday, December 11, 2023 11:53:56
Report Date/Time: Monday, December 11, 2023 15:50:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-13e 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	9981.8	1.1	**4.4408**	0.165	3.7	ug/L	81	KED
|	**Ni-1**	60	4256.3	3.5	**4.3984**	0.022	0.5	ug/L	36	KED
|	**Ni-1**	62	666.0	8.6	**4.3767**	0.247	5.6	ug/L	15	KED
| >	**Ge-1**	72	15173.7	3.0				ug/L	16172	KED
⌊	**As-2**	75	368.3	3.2	**3.9337**	0.010	0.3	ug/L	2	KED
	Y-1	89	28963.0	1.1				ug/L	30090	KED
	Rh-1	103	175218.4	0.6				ug/L	200857	KED
	In-1	115	20157.6	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		93.824
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-01f 2X

Sample Date/Time: Monday, December 11, 2023 11:59:15
Report Date/Time: Monday, December 11, 2023 15:50:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-01f 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3679.6	2.3	**1.6220**	0.031	1.9	ug/L	81	KED
|	**Ni-1**	60	1510.4	8.8	**1.5446**	0.116	7.5	ug/L	36	KED
|	**Ni-1**	62	240.3	5.0	**1.5285**	0.042	2.7	ug/L	15	KED
|>	**Ge-1**	72	15107.7	2.8				ug/L	16172	KED
⌊	**As-2**	75	487.3	4.6	**5.2336**	0.092	1.8	ug/L	2	KED
	Y-1	89	28597.3	1.0				ug/L	30090	KED
	Rh-1	103	179494.6	0.4				ug/L	200857	KED
	In-1	115	19825.2	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		93.416
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03f 2X

Sample Date/Time: Monday, December 11, 2023 12:04:34
Report Date/Time: Monday, December 11, 2023 15:50:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03f 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3601.6	4.4	**1.6021**	0.094	5.9	ug/L	81	KED
|	**Ni-1**	60	1445.4	5.7	**1.4913**	0.090	6.1	ug/L	36	KED
|	**Ni-1**	62	217.3	6.2	**1.3878**	0.103	7.4	ug/L	15	KED
|>	**Ge-1**	72	14972.5	1.4				ug/L	16172	KED
⌊	**As-2**	75	54.0	8.1	**0.5650**	0.056	9.9	ug/L	2	KED
	Y-1	89	28121.3	2.0				ug/L	30090	KED
	Rh-1	103	178037.2	0.6				ug/L	200857	KED
	In-1	115	20114.0	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.580
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-05c 2X

Sample Date/Time: Monday, December 11, 2023 12:09:52
Report Date/Time: Monday, December 11, 2023 15:50:29
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-05c 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3080.8	5.4	**1.3210**	0.076	5.8	ug/L	81	KED
|	**Ni-1**	60	1208.4	3.7	**1.2007**	0.040	3.3	ug/L	36	KED
|	**Ni-1**	62	175.7	7.7	**1.0661**	0.091	8.6	ug/L	15	KED
| >	**Ge-1**	72	15457.4	0.5				ug/L	16172	KED
⌊	**As-2**	75	31.7	22.2	**0.3106**	0.075	24.1	ug/L	2	KED
	Y-1	89	29137.7	1.7				ug/L	30090	KED
	Rh-1	103	183152.3	0.8				ug/L	200857	KED
	In-1	115	20656.7	0.8				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		95.578
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-07a 2X

Sample Date/Time: Monday, December 11, 2023 12:15:11
Report Date/Time: Monday, December 11, 2023 15:50:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-07a 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	731.2	4.6	**0.2856**	0.023	8.1	ug/L	81	KED
|	**Ni-1**	60	327.7	7.9	**0.2973**	0.017	5.7	ug/L	36	KED
|	**Ni-1**	62	51.7	11.8	**0.2460**	0.044	17.8	ug/L	15	KED
|>	**Ge-1**	72	15578.5	2.8				ug/L	16172	KED
⌊	**As-2**	75	8.7	37.1	**0.0673**	0.034	50.8	ug/L	2	KED
	Y-1	89	29243.9	1.4				ug/L	30090	KED
	Rh-1	103	184970.5	0.5				ug/L	200857	KED
	In-1	115	20821.4	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		96.327
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-08f 2X

Sample Date/Time: Monday, December 11, 2023 12:20:30
Report Date/Time: Monday, December 11, 2023 15:50:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-08f 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1907.1	2.1	**0.8440**	0.028	3.4	ug/L	81	KED
|	**Ni-1**	60	832.7	3.3	**0.8561**	0.022	2.6	ug/L	36	KED
|	**Ni-1**	62	121.3	12.5	**0.7458**	0.114	15.3	ug/L	15	KED
|>	**Ge-1**	72	14771.0	1.2				ug/L	16172	KED
⌊	**As-2**	75	11.0	39.6	**0.0980**	0.049	49.5	ug/L	2	KED
	Y-1	89	28125.3	0.7				ug/L	30090	KED
	Rh-1	103	172884.8	0.2				ug/L	200857	KED
	In-1	115	19709.9	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		91.334
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-266-01c 2X

Sample Date/Time: Monday, December 11, 2023 12:25:50
Report Date/Time: Monday, December 11, 2023 15:50:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-266-01c 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	15864.4	2.0	**7.0772**	0.113	1.6	ug/L	81	KED
|	**Ni-1**	60	7043.7	2.7	**7.3060**	0.109	1.5	ug/L	36	KED
|	**Ni-1**	62	1093.0	4.2	**7.2517**	0.151	2.1	ug/L	15	KED
|>	**Ge-1**	72	15166.4	2.2				ug/L	16172	KED
⌊	**As-2**	75	101.0	8.1	**1.0613**	0.068	6.4	ug/L	2	KED
	Y-1	89	30355.9	0.9				ug/L	30090	KED
	Rh-1	103	177316.5	1.8				ug/L	200857	KED
	In-1	115	20180.6	1.8				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		93.779
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 12:31:09
Report Date/Time: Monday, December 11, 2023 15:50:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86102.0	2.0	**40.2242**	0.328	0.8	ug/L	81	KED
|	**Ni-1**	60	37555.0	2.1	**40.7960**	0.309	0.8	ug/L	36	KED
|	**Ni-1**	62	5714.8	3.1	**39.9731**	0.767	1.9	ug/L	15	KED
|>	**Ge-1**	72	14537.4	1.6				ug/L	16172	KED
⌊	**As-2**	75	3579.4	4.6	**40.1240**	1.960	4.9	ug/L	2	KED
	Y-1	89	26947.1	0.8				ug/L	30090	KED
	Rh-1	103	172448.6	2.3				ug/L	200857	KED
	In-1	115	19302.1	0.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	100.560	
|	Ni-1	60	101.990	
|	Ni-1	62	99.933	
|>	Ge-1	72		89.890
⌊	As-2	75	100.310	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 12:36:28
Report Date/Time: Monday, December 11, 2023 15:50:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	44970.9	2.5	**20.7791**	0.070	0.3	ug/L	81	KED
|	**Ni-1**	60	19301.4	2.4	**20.7380**	0.208	1.0	ug/L	36	KED
|	**Ni-1**	62	3052.7	1.3	**21.0981**	0.306	1.5	ug/L	15	KED
|>	**Ge-1**	72	14686.9	2.3				ug/L	16172	KED
⌊	**As-2**	75	1872.5	2.9	**20.7682**	0.771	3.7	ug/L	2	KED
	Y-1	89	27352.2	2.2				ug/L	30090	KED
	Rh-1	103	175530.6	1.3				ug/L	200857	KED
	In-1	115	19756.4	3.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	103.896	
|	Ni-1	60	103.690	
|	Ni-1	62	105.490	
|>	Ge-1	72		90.814
⌊	As-2	75	103.841	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 12:41:48
Report Date/Time: Monday, December 11, 2023 15:50:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	92.4	10.8	**0.0042**	0.004	96.9	ug/L	81	KED
|	**Ni-1**	60	36.3	12.4	**0.0001**	0.005	8039.9	ug/L	36	KED
|	**Ni-1**	62	6.7	22.9	**-0.0513**	0.009	17.4	ug/L	15	KED
| >	**Ge-1**	72	16471.2	2.0				ug/L	16172	KED
⌊	**As-2**	75	1.7	69.3	**-0.0072**	0.011	153.1	ug/L	2	KED
	Y-1	89	30889.4	1.6				ug/L	30090	KED
	Rh-1	103	197794.2	2.7				ug/L	200857	KED
	In-1	115	22540.7	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		101.847
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: MB1211D1 2X

Sample Date/Time: Monday, December 11, 2023 12:48:51
Report Date/Time: Monday, December 11, 2023 15:50:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\MB1211D1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	101.5	4.7	**0.0063**	0.001	12.6	ug/L	81	KED
|	**Ni-1**	60	40.0	27.5	**0.0018**	0.009	501.4	ug/L	36	KED
|	**Ni-1**	62	6.3	55.5	**-0.0543**	0.022	40.8	ug/L	15	KED
|>	**Ge-1**	72	17175.3	3.8				ug/L	16172	KED
⌊	**As-2**	75	1.7	34.6	**-0.0077**	0.005	70.0	ug/L	2	KED
	Y-1	89	32587.5	1.4				ug/L	30090	KED
	Rh-1	103	205711.9	1.0				ug/L	200857	KED
	In-1	115	23522.1	1.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		106.201
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: SB1211D1 2X

Sample Date/Time: Monday, December 11, 2023 12:54:11
Report Date/Time: Monday, December 11, 2023 15:50:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\SB1211D1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86958.9	0.5	**39.3526**	0.233	0.6	ug/L	81	KED
|	**Ni-1**	60	37838.4	1.0	**39.8174**	0.390	1.0	ug/L	36	KED
|	**Ni-1**	62	5719.1	1.1	**38.7508**	0.088	0.2	ug/L	15	KED
|>	**Ge-1**	72	15007.9	0.9				ug/L	16172	KED
⌊	**As-2**	75	3742.8	1.7	**40.6324**	0.541	1.3	ug/L	2	KED
	Y-1	89	27795.0	0.7				ug/L	30090	KED
	Rh-1	103	177123.7	1.3				ug/L	200857	KED
	In-1	115	20227.9	0.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.799
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03g 2X

Sample Date/Time: Monday, December 11, 2023 12:59:30
Report Date/Time: Monday, December 11, 2023 15:50:50
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03g 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1140.3	1.9	**0.4505**	0.003	0.7	ug/L	81	KED
|	**Ni-1**	60	481.3	6.3	**0.4403**	0.023	5.2	ug/L	36	KED
|	**Ni-1**	62	75.3	16.1	**0.3869**	0.071	18.3	ug/L	15	KED
|>	**Ge-1**	72	16003.0	1.5				ug/L	16172	KED
⌊	**As-2**	75	36.3	25.4	**0.3458**	0.088	25.6	ug/L	2	KED
	Y-1	89	30012.5	2.2				ug/L	30090	KED
	Rh-1	103	185396.4	1.2				ug/L	200857	KED
	In-1	115	21465.3	1.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		98.952
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gD 2X

Sample Date/Time: Monday, December 11, 2023 13:04:48
Report Date/Time: Monday, December 11, 2023 15:50:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gD 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1129.7	5.7	**0.4454**	0.030	6.7	ug/L	81	KED
|	**Ni-1**	60	486.3	0.9	**0.4448**	0.004	0.8	ug/L	36	KED
|	**Ni-1**	62	77.7	6.6	**0.4016**	0.035	8.6	ug/L	15	KED
| >	**Ge-1**	72	16026.7	0.7				ug/L	16172	KED
⌊	**As-2**	75	39.3	10.3	**0.3765**	0.039	10.4	ug/L	2	KED
	Y-1	89	29962.4	2.0				ug/L	30090	KED
	Rh-1	103	185213.7	1.1				ug/L	200857	KED
	In-1	115	21637.0	0.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		99.098
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gL 10X

Sample Date/Time: Monday, December 11, 2023 13:10:08
Report Date/Time: Monday, December 11, 2023 15:50:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gL 10X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	302.3	5.9	**0.0960**	0.003	3.6	ug/L	81	KED
|	**Ni-1**	60	124.0	6.9	**0.0893**	0.012	13.0	ug/L	36	KED
|	**Ni-1**	62	19.7	16.3	**0.0340**	0.017	49.0	ug/L	15	KED
|>	**Ge-1**	72	15807.1	3.7				ug/L	16172	KED
⌊	**As-2**	75	11.7	26.2	**0.0966**	0.030	31.5	ug/L	2	KED
	Y-1	89	29898.6	0.5				ug/L	30090	KED
	Rh-1	103	185382.9	1.4				ug/L	200857	KED
	In-1	115	21277.2	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.741
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gMS 2X

Sample Date/Time: Monday, December 11, 2023 13:15:27
Report Date/Time: Monday, December 11, 2023 15:50:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gMS 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	92688.7	2.9	**39.8469**	0.442	1.1	ug/L	81	KED
|	**Ni-1**	60	40259.0	2.3	**40.2488**	0.279	0.7	ug/L	36	KED
|	**Ni-1**	62	6213.7	2.3	**40.0035**	0.422	1.1	ug/L	15	KED
| >	**Ge-1**	72	15797.4	2.5				ug/L	16172	KED
⌊	**As-2**	75	3982.9	1.2	**41.0875**	0.569	1.4	ug/L	2	KED
	Y-1	89	29536.9	2.8				ug/L	30090	KED
	Rh-1	103	183044.0	1.1				ug/L	200857	KED
	In-1	115	21208.1	2.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		97.681
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gMSD 2X

Sample Date/Time: Monday, December 11, 2023 13:20:46
Report Date/Time: Monday, December 11, 2023 15:50:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gMSD 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	93910.9	0.9	**40.2049**	0.138	0.3	ug/L	81	KED
|	**Ni-1**	60	40716.3	1.0	**40.5333**	0.276	0.7	ug/L	36	KED
|	**Ni-1**	62	6161.7	0.8	**39.4986**	0.086	0.2	ug/L	15	KED
|>	**Ge-1**	72	15864.1	1.0				ug/L	16172	KED
⌊	**As-2**	75	4099.9	2.2	**42.1102**	0.966	2.3	ug/L	2	KED
	Y-1	89	29942.0	1.7				ug/L	30090	KED
	Rh-1	103	183808.9	0.1				ug/L	200857	KED
	In-1	115	21517.3	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		98.093
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-06b 2X

Sample Date/Time: Monday, December 11, 2023 13:26:04
Report Date/Time: Monday, December 11, 2023 15:50:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-06b 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3744.8	11.3	**1.7092**	0.185	10.8	ug/L	81	KED
|	**Ni-1**	60	1856.1	3.6	**1.9753**	0.073	3.7	ug/L	36	KED
|	**Ni-1**	62	260.7	4.3	**1.7281**	0.080	4.7	ug/L	15	KED
|>	**Ge-1**	72	14595.5	0.8				ug/L	16172	KED
⌊	**As-2**	75	280.0	5.1	**3.1040**	0.158	5.1	ug/L	2	KED
	Y-1	89	28830.1	0.5				ug/L	30090	KED
	Rh-1	103	171723.6	0.2				ug/L	200857	KED
	In-1	115	20589.4	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		90.249
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-08d 2X

Sample Date/Time: Monday, December 11, 2023 13:31:22
Report Date/Time: Monday, December 11, 2023 15:51:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-08d 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	18854.9	2.7	**8.6514**	0.198	2.3	ug/L	81	KED
|	**Ni-1**	60	8192.0	3.4	**8.7400**	0.267	3.1	ug/L	36	KED
|	**Ni-1**	62	1238.1	4.3	**8.4589**	0.326	3.9	ug/L	15	KED
|>	**Ge-1**	72	14755.6	0.5				ug/L	16172	KED
⌊	**As-2**	75	717.0	6.3	**7.8971**	0.471	6.0	ug/L	2	KED
	Y-1	89	27836.8	1.3				ug/L	30090	KED
	Rh-1	103	169972.5	0.3				ug/L	200857	KED
	In-1	115	19952.8	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		91.239
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-11f 2X

Sample Date/Time: Monday, December 11, 2023 13:36:41
Report Date/Time: Monday, December 11, 2023 15:51:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-11f 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	851.6	4.3	**0.3345**	0.008	2.4	ug/L	81	KED
|	**Ni-1**	60	364.3	4.4	**0.3318**	0.016	4.7	ug/L	36	KED
|	**Ni-1**	62	63.0	8.4	**0.3160**	0.023	7.4	ug/L	15	KED
|>	**Ge-1**	72	15708.3	2.6				ug/L	16172	KED
⌊	**As-2**	75	68.3	7.4	**0.6867**	0.067	9.7	ug/L	2	KED
	Y-1	89	29583.3	1.8				ug/L	30090	KED
	Rh-1	103	182781.6	0.6				ug/L	200857	KED
	In-1	115	21238.3	2.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.130
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 13:41:59
Report Date/Time: Monday, December 11, 2023 15:51:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86252.7	0.7	**39.8340**	0.710	1.8	ug/L	81	KED
|	**Ni-1**	60	37304.3	2.3	**40.0506**	0.192	0.5	ug/L	36	KED
|	**Ni-1**	62	5695.5	1.3	**39.3850**	0.832	2.1	ug/L	15	KED
|>	**Ge-1**	72	14709.6	2.2				ug/L	16172	KED
⌊	**As-2**	75	3572.1	1.2	**39.5751**	0.768	1.9	ug/L	2	KED
	Y-1	89	27286.4	2.1				ug/L	30090	KED
	Rh-1	103	172111.8	1.8				ug/L	200857	KED
	In-1	115	19848.8	2.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	99.585	
|	Ni-1	60	100.127	
|	Ni-1	62	98.462	
|>	Ge-1	72		90.954
⌊	As-2	75	98.938	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 13:47:19
Report Date/Time: Monday, December 11, 2023 15:51:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	44227.3	1.8	**20.6844**	0.210	1.0	ug/L	81	KED
|	**Ni-1**	60	19053.0	1.8	**20.7198**	0.185	0.9	ug/L	36	KED
|	**Ni-1**	62	2927.6	2.7	**20.4711**	0.234	1.1	ug/L	15	KED
|>	**Ge-1**	72	14510.4	1.6				ug/L	16172	KED
⌊	**As-2**	75	1822.1	3.9	**20.4437**	0.517	2.5	ug/L	2	KED
	Y-1	89	26992.2	3.7				ug/L	30090	KED
	Rh-1	103	172017.5	1.0				ug/L	200857	KED
	In-1	115	19360.3	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	103.422	
|	Ni-1	60	103.599	
|	Ni-1	62	102.355	
|>	Ge-1	72		89.723
⌊	As-2	75	102.218	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 13:52:39
Report Date/Time: Monday, December 11, 2023 15:51:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	107.4	7.5	**0.0081**	0.002	30.7	ug/L	81	KED
|	**Ni-1**	60	38.7	21.1	**0.0002**	0.007	3294.7	ug/L	36	KED
|	**Ni-1**	62	6.3	9.1	**-0.0553**	0.004	6.6	ug/L	15	KED
|>	**Ge-1**	72	17393.9	1.6				ug/L	16172	KED
⌊	**As-2**	75	2.0	50.0	**-0.0048**	0.009	197.3	ug/L	2	KED
	Y-1	89	31011.3	0.6				ug/L	30090	KED
	Rh-1	103	196441.5	1.2				ug/L	200857	KED
	In-1	115	22707.4	1.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		107.553
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-13f 2X

Sample Date/Time: Monday, December 11, 2023 13:57:08
Report Date/Time: Monday, December 11, 2023 15:51:10
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-13f 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	6028.2	2.9	**2.7958**	0.127	4.5	ug/L	81	KED
|	**Ni-1**	60	2545.2	1.1	**2.7423**	0.031	1.1	ug/L	36	KED
|	**Ni-1**	62	407.0	1.9	**2.7714**	0.053	1.9	ug/L	15	KED
| >	**Ge-1**	72	14488.7	2.2				ug/L	16172	KED
⌊	**As-2**	75	259.0	3.0	**2.8909**	0.070	2.4	ug/L	2	KED
	Y-1	89	27404.9	1.7				ug/L	30090	KED
	Rh-1	103	163791.3	0.8				ug/L	200857	KED
	In-1	115	19208.1	2.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		89.588
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-01g 2X

Sample Date/Time: Monday, December 11, 2023 14:02:28
Report Date/Time: Monday, December 11, 2023 15:51:11
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-01g 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	2756.7	4.6	**1.1881**	0.040	3.3	ug/L	81	KED
|	**Ni-1**	60	1167.4	2.7	**1.1688**	0.027	2.3	ug/L	36	KED
|	**Ni-1**	62	177.7	9.0	**1.0899**	0.120	11.0	ug/L	15	KED
|>	**Ge-1**	72	15329.6	1.4				ug/L	16172	KED
⌊	**As-2**	75	251.0	4.8	**2.6450**	0.095	3.6	ug/L	2	KED
	Y-1	89	28581.9	0.7				ug/L	30090	KED
	Rh-1	103	176052.2	0.9				ug/L	200857	KED
	In-1	115	20958.4	1.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		94.788
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-05d 2X

Sample Date/Time: Monday, December 11, 2023 14:07:47
Report Date/Time: Monday, December 11, 2023 15:51:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-05d 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	503.8	5.5	**0.1841**	0.014	7.6	ug/L	81	KED
|	**Ni-1**	60	223.3	8.3	**0.1896**	0.016	8.7	ug/L	36	KED
|	**Ni-1**	62	32.7	7.7	**0.1195**	0.018	14.7	ug/L	15	KED
|>	**Ge-1**	72	15717.3	1.0				ug/L	16172	KED
⌊	**As-2**	75	10.0	10.0	**0.0802**	0.011	13.8	ug/L	2	KED
	Y-1	89	29325.1	0.9				ug/L	30090	KED
	Rh-1	103	180785.4	0.4				ug/L	200857	KED
	In-1	115	21227.5	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.186
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-07b 2X

Sample Date/Time: Monday, December 11, 2023 14:13:06
Report Date/Time: Monday, December 11, 2023 15:51:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-07b 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	393.4	6.8	**0.1395**	0.009	6.4	ug/L	81	KED
|	**Ni-1**	60	182.3	4.9	**0.1523**	0.014	8.9	ug/L	36	KED
|	**Ni-1**	62	25.7	45.2	**0.0771**	0.076	98.9	ug/L	15	KED
|>	**Ge-1**	72	15418.0	2.6				ug/L	16172	KED
⌊	**As-2**	75	9.7	36.3	**0.0783**	0.036	46.1	ug/L	2	KED
	Y-1	89	27985.7	1.7				ug/L	30090	KED
	Rh-1	103	175198.9	1.3				ug/L	200857	KED
	In-1	115	20494.1	3.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		95.335
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-08g 2X

Sample Date/Time: Monday, December 11, 2023 14:18:25
Report Date/Time: Monday, December 11, 2023 15:51:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-08g 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1165.6	2.7	**0.5108**	0.007	1.3	ug/L	81	KED
|	**Ni-1**	60	508.7	2.2	**0.5184**	0.029	5.6	ug/L	36	KED
|	**Ni-1**	62	78.0	1.3	**0.4544**	0.014	3.1	ug/L	15	KED
| >	**Ge-1**	72	14547.1	3.1				ug/L	16172	KED
⌊	**As-2**	75	13.3	11.5	**0.1263**	0.022	17.2	ug/L	2	KED
	Y-1	89	26699.9	2.0				ug/L	30090	KED
	Rh-1	103	162977.9	1.6				ug/L	200857	KED
	In-1	115	19482.9	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		89.950
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-266-01d 2X

Sample Date/Time: Monday, December 11, 2023 14:23:45
Report Date/Time: Monday, December 11, 2023 15:51:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-266-01d 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1634.4	1.6	**0.7321**	0.011	1.5	ug/L	81	KED
|	**Ni-1**	60	706.0	5.4	**0.7347**	0.044	6.0	ug/L	36	KED
|	**Ni-1**	62	112.3	6.1	**0.6970**	0.046	6.6	ug/L	15	KED
|>	**Ge-1**	72	14503.0	0.6				ug/L	16172	KED
⌊	**As-2**	75	9.3	37.6	**0.0815**	0.040	49.2	ug/L	2	KED
	Y-1	89	26225.4	3.1				ug/L	30090	KED
	Rh-1	103	165895.7	2.3				ug/L	200857	KED
	In-1	115	19391.7	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		89.677
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 14:29:04
Report Date/Time: Monday, December 11, 2023 15:51:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	81866.4	1.6	**39.8063**	0.580	1.5	ug/L	81	KED
|	**Ni-1**	60	35412.5	0.7	**40.0396**	0.317	0.8	ug/L	36	KED
|	**Ni-1**	62	5446.4	2.8	**39.6465**	0.631	1.6	ug/L	15	KED
|>	**Ge-1**	72	13968.5	1.4				ug/L	16172	KED
⌊	**As-2**	75	3445.1	1.6	**40.1840**	0.378	0.9	ug/L	2	KED
	Y-1	89	25622.6	1.5				ug/L	30090	KED
	Rh-1	103	162874.9	2.5				ug/L	200857	KED
	In-1	115	18981.1	0.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	99.516	
|	Ni-1	60	100.099	
|	Ni-1	62	99.116	
|>	Ge-1	72		86.372
⌊	As-2	75	100.460	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 14:34:24
Report Date/Time: Monday, December 11, 2023 15:51:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	43039.5	0.6	**20.4548**	0.280	1.4	ug/L	81	KED
|	**Ni-1**	60	18554.7	1.2	**20.5038**	0.282	1.4	ug/L	36	KED
|	**Ni-1**	62	2920.0	2.7	**20.7464**	0.183	0.9	ug/L	15	KED
|>	**Ge-1**	72	14281.5	2.0				ug/L	16172	KED
⌊	**As-2**	75	1789.8	3.6	**20.4049**	0.515	2.5	ug/L	2	KED
	Y-1	89	26303.2	1.8				ug/L	30090	KED
	Rh-1	103	164281.6	1.0				ug/L	200857	KED
	In-1	115	18921.3	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	102.274	
|	Ni-1	60	102.519	
|	Ni-1	62	103.732	
|>	Ge-1	72		88.307
⌊	As-2	75	102.025	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 14:39:44
Report Date/Time: Monday, December 11, 2023 15:51:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	99.6	6.2	**0.0062**	0.002	40.1	ug/L	81	KED
|	**Ni-1**	60	34.0	10.2	**-0.0030**	0.003	90.6	ug/L	36	KED
|	**Ni-1**	62	7.3	28.4	**-0.0483**	0.012	24.8	ug/L	15	KED
|>	**Ge-1**	72	16879.3	1.6				ug/L	16172	KED
⌊	**As-2**	75	3.3	62.4	**0.0085**	0.020	233.5	ug/L	2	KED
	Y-1	89	30090.7	0.5				ug/L	30090	KED
	Rh-1	103	187489.0	0.4				ug/L	200857	KED
	In-1	115	22018.4	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		104.371
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-02c 10X

Sample Date/Time: Monday, December 11, 2023 14:46:44
Report Date/Time: Monday, December 11, 2023 15:51:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-02c 10X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌜	**Ni-1**	58	510.3	4.5	**0.3047**	0.018	5.8	ug/L	81	KED
|	**Ni-1**	60	211.7	8.5	**0.2920**	0.033	11.3	ug/L	36	KED
|	**Ni-1**	62	44.0	28.4	**0.3451**	0.123	35.6	ug/L	15	KED
|>	**Ge-1**	72	10247.7	1.6				ug/L	16172	KED
⌞	**As-2**	75	16.3	15.4	**0.2364**	0.040	17.0	ug/L	2	KED
	Y-1	89	21443.7	0.7				ug/L	30090	KED
	Rh-1	103	114667.4	0.6				ug/L	200857	KED
	In-1	115	15068.7	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌜	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		63.365
⌞	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-03c 10X

Sample Date/Time: Monday, December 11, 2023 14:52:03
Report Date/Time: Monday, December 11, 2023 15:51:29
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-03c 10X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	457.9	5.6	**0.2657**	0.013	5.0	ug/L	81	KED
|	**Ni-1**	60	176.7	6.1	**0.2339**	0.012	5.0	ug/L	36	KED
|	**Ni-1**	62	42.0	16.5	**0.3199**	0.069	21.6	ug/L	15	KED
|>	**Ge-1**	72	10386.4	1.8				ug/L	16172	KED
⌊	**As-2**	75	21.0	8.2	**0.3065**	0.032	10.6	ug/L	2	KED
	Y-1	89	20996.8	0.4				ug/L	30090	KED
	Rh-1	103	114302.1	1.0				ug/L	200857	KED
	In-1	115	14708.8	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		64.223
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-04c 10X

Sample Date/Time: Monday, December 11, 2023 14:57:22
Report Date/Time: Monday, December 11, 2023 15:51:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-04c 10X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1402.1	4.3	**0.5799**	0.029	5.0	ug/L	81	KED
|	**Ni-1**	60	469.3	3.5	**0.4431**	0.023	5.1	ug/L	36	KED
|	**Ni-1**	62	90.7	8.3	**0.5024**	0.044	8.7	ug/L	15	KED
|>	**Ge-1**	72	15529.4	1.7				ug/L	16172	KED
⌊	**As-2**	75	156.3	3.0	**1.6185**	0.075	4.6	ug/L	2	KED
	Y-1	89	29020.4	0.6				ug/L	30090	KED
	Rh-1	103	176255.4	1.3				ug/L	200857	KED
	In-1	115	20611.3	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		96.024
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-05c 10X

Sample Date/Time: Monday, December 11, 2023 15:02:41
Report Date/Time: Monday, December 11, 2023 15:51:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-05c 10X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	469.7	2.9	**0.2632**	0.010	3.9	ug/L	81	KED
|	**Ni-1**	60	192.3	7.8	**0.2482**	0.025	9.9	ug/L	36	KED
|	**Ni-1**	62	49.7	9.5	**0.3781**	0.036	9.4	ug/L	15	KED
|>	**Ge-1**	72	10748.4	2.3				ug/L	16172	KED
⌊	**As-2**	75	23.0	37.9	**0.3271**	0.138	42.2	ug/L	2	KED
	Y-1	89	21899.8	1.2				ug/L	30090	KED
	Rh-1	103	119873.2	0.5				ug/L	200857	KED
	In-1	115	15128.1	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		66.461
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-01d 10X FF

Sample Date/Time: Monday, December 11, 2023 15:08:00
Report Date/Time: Monday, December 11, 2023 15:51:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-01d 10X FF.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1566.2	3.3	**0.8672**	0.027	3.1	ug/L	81	KED
|	**Ni-1**	60	706.7	1.2	**0.9106**	0.008	0.9	ug/L	36	KED
|	**Ni-1**	62	124.7	13.3	**0.9830**	0.140	14.3	ug/L	15	KED
|>	**Ge-1**	72	11813.9	0.3				ug/L	16172	KED
⌊	**As-2**	75	33.3	6.2	**0.4365**	0.030	6.8	ug/L	2	KED
	Y-1	89	22364.5	1.2				ug/L	30090	KED
	Rh-1	103	128501.4	0.7				ug/L	200857	KED
	In-1	115	15780.1	1.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		73.049
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-02d 10X

Sample Date/Time: Monday, December 11, 2023 15:13:18
Report Date/Time: Monday, December 11, 2023 15:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-02d 10X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	293.4	6.6	**0.1613**	0.012	7.1	ug/L	81	KED
|	**Ni-1**	60	137.7	4.8	**0.1782**	0.010	5.8	ug/L	36	KED
|	**Ni-1**	62	59.7	6.3	**0.5032**	0.042	8.3	ug/L	15	KED
|>	**Ge-1**	72	10214.3	0.7				ug/L	16172	KED
⌊	**As-2**	75	21.7	11.6	**0.3224**	0.041	12.8	ug/L	2	KED
	Y-1	89	19892.2	0.6				ug/L	30090	KED
	Rh-1	103	113184.6	0.4				ug/L	200857	KED
	In-1	115	14254.7	3.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		63.159
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-03d 10X

Sample Date/Time: Monday, December 11, 2023 15:18:37
Report Date/Time: Monday, December 11, 2023 15:51:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-03d 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	257.1	5.9	**0.1331**	0.012	9.1	ug/L	81	KED
|	**Ni-1**	60	111.0	12.1	**0.1328**	0.022	16.5	ug/L	36	KED
|	**Ni-1**	62	55.7	8.9	**0.4490**	0.042	9.4	ug/L	15	KED
|>	**Ge-1**	72	10473.2	1.6				ug/L	16172	KED
⌊	**As-2**	75	18.7	26.4	**0.2666**	0.075	28.0	ug/L	2	KED
	Y-1	89	20429.3	0.8				ug/L	30090	KED
	Rh-1	103	116981.0	1.0				ug/L	200857	KED
	In-1	115	14336.9	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		64.759
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-04d 10X

Sample Date/Time: Monday, December 11, 2023 15:23:57
Report Date/Time: Monday, December 11, 2023 15:51:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-04d 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1139.4	2.5	**0.3999**	0.018	4.6	ug/L	81	KED
|	**Ni-1**	60	401.0	1.7	**0.3201**	0.012	3.9	ug/L	36	KED
|	**Ni-1**	62	100.7	17.9	**0.4812**	0.096	19.9	ug/L	15	KED
|>	**Ge-1**	72	17863.5	2.0				ug/L	16172	KED
⌊	**As-2**	75	158.7	10.4	**1.4267**	0.177	12.4	ug/L	2	KED
	Y-1	89	32843.0	1.6				ug/L	30090	KED
	Rh-1	103	204241.0	2.0				ug/L	200857	KED
	In-1	115	23216.6	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		110.456
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-05d 10X

Sample Date/Time: Monday, December 11, 2023 15:29:16
Report Date/Time: Monday, December 11, 2023 15:51:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-05d 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	251.4	10.5	**0.1171**	0.015	13.2	ug/L	81	KED
|	**Ni-1**	60	122.7	15.1	**0.1365**	0.026	19.2	ug/L	36	KED
|	**Ni-1**	62	55.3	17.1	**0.4059**	0.084	20.7	ug/L	15	KED
|>	**Ge-1**	72	11316.1	0.8				ug/L	16172	KED
⌊	**As-2**	75	19.3	6.0	**0.2549**	0.015	5.7	ug/L	2	KED
	Y-1	89	22726.1	0.2				ug/L	30090	KED
	Rh-1	103	126898.8	0.6				ug/L	200857	KED
	In-1	115	15824.1	1.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		69.972
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 15:34:35
Report Date/Time: Monday, December 11, 2023 15:51:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.058

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌜	**Ni-1**	58	95716.6	1.5	**39.6895**	1.044	2.6	ug/L	81	KED
|	**Ni-1**	60	41238.5	2.1	**39.7562**	0.854	2.1	ug/L	36	KED
|	**Ni-1**	62	6422.8	1.4	**39.8784**	0.974	2.4	ug/L	15	KED
| >	**Ge-1**	72	16389.1	3.8				ug/L	16172	KED
⌞	**As-2**	75	4087.6	1.3	**40.6613**	1.008	2.5	ug/L	2	KED
	Y-1	89	28981.4	3.1				ug/L	30090	KED
	Rh-1	103	190112.7	1.1				ug/L	200857	KED
	In-1	115	21446.8	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌜	Ni-1	58	99.224	
|	Ni-1	60	99.391	
|	Ni-1	62	99.696	
| >	Ge-1	72		101.339
⌞	As-2	75	101.653	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 15:39:55
Report Date/Time: Monday, December 11, 2023 15:51:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	49309.9	1.1	**20.2062**	0.556	2.8	ug/L	81	KED
|	**Ni-1**	60	21582.0	1.4	**20.5605**	0.306	1.5	ug/L	36	KED
|	**Ni-1**	62	3296.4	1.4	**20.1970**	0.547	2.7	ug/L	15	KED
|>	**Ge-1**	72	16565.3	1.8				ug/L	16172	KED
⌊	**As-2**	75	2108.8	1.9	**20.7387**	0.751	3.6	ug/L	2	KED
	Y-1	89	29749.0	2.2				ug/L	30090	KED
	Rh-1	103	190879.9	1.1				ug/L	200857	KED
	In-1	115	21840.9	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	101.031	
|	Ni-1	60	102.802	
|	Ni-1	62	100.985	
|>	Ge-1	72		102.429
⌊	As-2	75	103.694	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 15:45:15
Report Date/Time: Monday, December 11, 2023 15:51:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	101.3	9.4	**0.0011**	0.004	323.7	ug/L	81	KED
|	**Ni-1**	60	35.3	21.2	**-0.0064**	0.006	100.3	ug/L	36	KED
|	**Ni-1**	62	18.7	16.4	**0.0044**	0.017	385.2	ug/L	15	KED
|>	**Ge-1**	72	19677.2	1.5				ug/L	16172	KED
⌊	**As-2**	75	3.0	33.3	**0.0014**	0.008	621.1	ug/L	2	KED
	Y-1	89	34240.0	1.4				ug/L	30090	KED
	Rh-1	103	217713.1	0.5				ug/L	200857	KED
	In-1	115	24962.6	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		121.671
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Std Name	Lab ID	Source	Source ID	Exp	Interm Conc ppm	Interm Vol mL	Final Conc ppm	Final Vol mL	Comments	Init	Date
Std 1	TM11-106-01	6020 100x	TM11-105-38	12-25-24	.2	.05	.0002	50	5% HNO3	KAM	12-11-24
2	02	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	03	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	04	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	05	IV6020 Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	06	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	07	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	08	IV PECHKI	S2MEB709269	5-24-24	10	.25	.105	⊥	⊥	⊥	⊥
Std 1	TM11-106-09	6020 100x	TM11-105-38	12-15-24	.2	.05	.0002	50	5% HNO3	KAM	12-13-24
2	10	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	11	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	12	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	13	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	14	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	15	⊥	⊥	⊥	⊥	.75	.10	⊥	⊥	⊥	⊥
ICW	16	IV PECHKI	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
Std 1	TM11-106-17	6020 100x	TM11-105-38	12-15-24	.2	.05	.0002	50	5% HNO3	KAM	12-15-24
2	18	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	19	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	20	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	21	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	22	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	23	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	24	IV PECHKI	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
6020 10x	TM11106-25	IV6020Cal-1	T2MEB726406	8-18-24	20	1.0	2	10	2% HNO3	KAM	12-18-24
6020 100x	26	⊥	⊥	⊥	20	0.1	.2	⊥	⊥	⊥	⊥
Std 1	TM11-106 27	6020 100x	TM11106-26	1-1-24	.2	.05	.0002	50	5% HNO3	KAM	12-18-24
2	28	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	29	6020 10x	TM11-106-25	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	30	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	31	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	32	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	33	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	34	IV PECHKI	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
ICSA	TM11-106-35	IV6020ICSA	T2MEB721394	8-18-24	20	1.0	VV	50	5% HNO3	KAM	12-18-24
ICSAD	36	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥
⊥	⊥	IV6020Cal-1	T2MEB726406	07-8-24	VV	.1	.04	⊥	⊥	⊥	⊥

DIGESTION DATE:	12-9-23
ANALYST:	ICPM

QC BATCH #:	11-053-076
MATRIX:	water
ANALYSIS METHOD:	200.8

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MB1209WM1	45mL	50			
SB1209WM1					
12-053-07b					
07bD					
07bMS					
07bMSD					
11-283-06a					
08c					
11e					
12e					
11-269-01f					
03f					
05e					
07a					
08f					
11-266-01c					
11-272-01c					
02c					
03c					
04c					
05c					

12/11/23

SPIKE ID# IV6020Cal-1 VOL ADDED: .25mL

Dissolved Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

12-11-23 KDM

User Name: kmckinney
Computer Name: ICPMS
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\
Report Date/Time: Monday, December 11, 2023 15:52:09

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	10:27:06 Mon 11-D	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 1	10:31:35 Mon 11-D	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 2	10:36:05 Mon 11-D	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 3	10:40:35 Mon 11-D	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 4	10:45:05 Mon 11-D	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 5	10:49:35 Mon 11-D	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 6	10:54:04 Mon 11-D	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	Standard 7	10:58:34 Mon 11-D	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 1	11:03:53 Mon 11-D	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 2	11:09:13 Mon 11-D	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	11:17:57 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	11:23:17 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	11:28:37 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-06a 2X	11:33:56 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-08c 2X	11:39:15 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-11e 2X	11:44:48 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-13e 2X	11:53:56 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-01f 2X	11:59:15 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03f 2X	12:04:34 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-05c 2X	12:09:52 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-07a 2X	12:15:11 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-08f 2X	12:20:30 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-266-01c 2X	12:25:50 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	12:31:09 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	12:36:28 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	12:41:48 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	MB1211D1 2X	12:48:51 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	SB1211D1 2X	12:54:11 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03g 2X	12:59:30 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gD 2X	13:04:48 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gL 10X	13:10:08 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gMS 2X	13:15:27 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-03gMSD 2X	13:20:46 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-06b 2X	13:26:04 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-08d 2X	13:31:22 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-11f 2X	13:36:41 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	13:41:59 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	13:47:19 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	13:52:39 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-183-13f 2X	13:57:08 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-01g 2X	14:02:28 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-05d 2X	14:07:47 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-07b 2X	14:13:06 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-213-08g 2X	14:18:25 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-266-01d 2X	14:23:45 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 6	14:29:04 Mon 11-D	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 7	14:34:24 Mon 11-D	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	QC Std 8	14:39:44 Mon 11-D	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-02c 10X	14:46:44 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	
	11-272-03c 10X	14:52:03 Mon 11-D	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121	

11-272-04c 10X	14:57:22 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-05c 10X	15:02:41 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-01d 10X FF	15:08:00 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-02d 10X	15:13:18 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-03d 10X	15:18:37 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-04d 10X	15:23:57 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
11-272-05d 10X	15:29:16 Mon 11-[Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 6	15:34:35 Mon 11-[QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 7	15:39:55 Mon 11-[QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121
QC Std 8	15:45:15 Mon 11-[QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X23121

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, December 11, 2023 07:12:13
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\12dec23\231211A\STD Performance Check.063
Mass Cal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
Be	9.0	6567.0	6566.976	137.635	2.1	Standard
In	114.9	126987.1	126987.062	1835.560	1.4	Standard
U	238.1	125077.4	125077.376	603.379	0.5	Standard
CeO	155.9	2787.1	0.022	0.000	1.5	Standard
Ce	139.9	124115.5	124115.499	1573.848	1.3	Standard
Ce++	70.0	3256.1	0.026	0.003	11.9	Standard
Blank	220.0	0.2	0.233	0.190	81.4	Standard

Current Conditions File Data

Current Value	Description
1.02	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-12.00	Deflector Voltage
600.00	ICP RF Power
1937.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.00	Cell Rod Offset STD [CRO]
11.00	Discriminator Threshold
-9.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
1.02	DRC Mode NEB
-8.00	DRC Mode QRO
-2.00	DRC Mode CRO
-14.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
375.00	Axial Field Voltage
-13.00	KED Mode CRO
-12.00	KED Mode QRO
-6.00	KED Mode Cell Entrance Voltage
-25.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
0.10	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
175.00	KED Mode Axial Field Voltage

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 08:41:44 Mon 11-Dec-23

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	7.025	1252	2054	0.711	
Mg	23.985	23.975	4635	2056	0.688	
In	114.904	114.925	22825	2055	0.694	
U	238.050	238.075	47459	2047	0.695	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ni	57.935	Linear Thru Zero	0.03	0.00	0.999779
Ni	59.933	Linear Thru Zero	0.01	0.00	0.999886
Ni	61.928	Linear Thru Zero	-0.00	0.00	-0.419754
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
As	74.922	Linear Thru Zero	0.00	0.00	0.999705
As-1	74.922	Linear Thru Zero	0.01	0.00	0.999804
Se	76.920	Linear Thru Zero	0.00	0.00	0.999681
Se	77.917	Linear Thru Zero	0.00	0.00	0.999031
Br	78.918	Linear Thru Zero	0.00	0.00	0.000000
Se	81.917	Linear Thru Zero	0.00	0.00	0.999780
Kr	82.914	Linear Thru Zero	0.00	0.00	0.000000
Y	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000
Pb	207.977	Linear Thru Zero	0.08	0.00	0.999041
Bi	208.980	Linear Thru Zero	0.00	0.00	0.000000
Th	232.038	Linear Thru Zero	0.00	0.00	0.000000
Ni-1	57.935	Linear Thru Zero	0.15	0.00	0.999908
Ni-1	59.933	Linear Thru Zero	0.06	0.00	0.999890
Ni-1	61.928	Linear Thru Zero	0.01	0.00	0.999878
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
As-2	74.922	Linear Thru Zero	0.01	0.00	0.999866
Y-1	88.905	Linear Thru Zero	0.00	0.00	0.000000
Rh-1	102.905	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, December 11, 2023 10:27:06
Report Date/Time: Monday, December 11, 2023 15:49:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Blank.001

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	80.6	11.2				ug/L		KED
|	**Ni-1**	60	35.7	6.5				ug/L		KED
|	**Ni-1**	62	14.7	7.9				ug/L		KED
|>	**Ge-1**	72	16172.5	0.4				ug/L		KED
⌊	**As-2**	75	2.3	24.7				ug/L		KED
	Y-1	89	30089.7	1.7				ug/L		KED
	Rh-1	103	200857.2	0.5				ug/L		KED
	In-1	115	21406.7	2.2				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, December 11, 2023 10:31:35
Report Date/Time: Monday, December 11, 2023 15:49:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 1.002

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	653.7	5.1				ug/L	81	KED
|	**Ni-1**	60	278.0	2.5				ug/L	36	KED
|	**Ni-1**	62	47.0	38.7				ug/L	15	KED
|>	**Ge-1**	72	17493.0	2.8				ug/L	16172	KED
⌊	**As-2**	75	24.3	6.3	**0.2000**	0.018	9.2	ug/L	2	KED
	Y-1	89	32802.3	1.5				ug/L	30090	KED
	Rh-1	103	218682.1	0.9				ug/L	200857	KED
	In-1	115	22699.3	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, December 11, 2023 10:36:05
Report Date/Time: Monday, December 11, 2023 15:49:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 2.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1511.7	1.1	**0.5000**	0.012	2.5	ug/L	81	KED
|	**Ni-1**	60	690.0	0.9	**0.5000**	0.004	0.8	ug/L	36	KED
|	**Ni-1**	62	105.3	20.9	**0.5000**	0.121	24.3	ug/L	15	KED
| >	**Ge-1**	72	17368.9	1.4				ug/L	16172	KED
⌊	**As-2**	75	69.3	10.2	**0.5134**	0.059	11.4	ug/L	2	KED
	Y-1	89	32012.2	0.9				ug/L	30090	KED
	Rh-1	103	216053.5	0.6				ug/L	200857	KED
	In-1	115	22821.3	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, December 11, 2023 10:40:35
Report Date/Time: Monday, December 11, 2023 15:49:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 3.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	5279.2	3.8	**1.9933**	0.039	2.0	ug/L	81	KED
|	**Ni-1**	60	2331.5	2.7	**1.9890**	0.033	1.7	ug/L	36	KED
|	**Ni-1**	62	354.0	8.4	**1.9979**	0.153	7.7	ug/L	15	KED
|>	**Ge-1**	72	16724.1	1.9				ug/L	16172	KED
⌊	**As-2**	75	215.3	1.6	**1.9762**	0.038	1.9	ug/L	2	KED
	Y-1	89	31626.6	1.5				ug/L	30090	KED
	Rh-1	103	210340.6	1.0				ug/L	200857	KED
	In-1	115	22089.8	0.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, December 11, 2023 10:45:05
Report Date/Time: Monday, December 11, 2023 15:49:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 4.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	12237.9	1.2	**4.9136**	0.108	2.2	ug/L	81	KED
|	**Ni-1**	60	5292.3	3.3	**4.8946**	0.098	2.0	ug/L	36	KED
|	**Ni-1**	62	839.4	4.8	**4.9447**	0.076	1.5	ug/L	15	KED
|>	**Ge-1**	72	17492.0	3.4				ug/L	16172	KED
⌊	**As-2**	75	487.3	3.9	**4.8841**	0.164	3.4	ug/L	2	KED
	Y-1	89	32382.7	0.8				ug/L	30090	KED
	Rh-1	103	216484.0	0.6				ug/L	200857	KED
	In-1	115	22588.0	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, December 11, 2023 10:49:35
Report Date/Time: Monday, December 11, 2023 15:50:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 5.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	42927.3	1.2	**20.1402**	0.183	0.9	ug/L	81	KED
|	**Ni-1**	60	18537.7	1.9	**20.1341**	0.323	1.6	ug/L	36	KED
|	**Ni-1**	62	2886.6	1.5	**20.1359**	0.257	1.3	ug/L	15	KED
|>	**Ge-1**	72	13603.5	0.4				ug/L	16172	KED
⌊	**As-2**	75	1799.8	1.4	**20.1943**	0.314	1.6	ug/L	2	KED
	Y-1	89	25065.0	1.0				ug/L	30090	KED
	Rh-1	103	168208.5	2.3				ug/L	200857	KED
	In-1	115	17707.0	0.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, December 11, 2023 10:54:04
Report Date/Time: Monday, December 11, 2023 15:50:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 6.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	79823.5	1.0	**39.4945**	0.916	2.3	ug/L	81	KED
|	**Ni-1**	60	34514.3	1.9	**39.5032**	1.122	2.8	ug/L	36	KED
|	**Ni-1**	62	5385.3	0.4	**39.5322**	0.776	2.0	ug/L	15	KED
| >	**Ge-1**	72	13520.4	1.5				ug/L	16172	KED
⌊	**As-2**	75	3365.1	1.5	**39.5639**	1.146	2.9	ug/L	2	KED
	Y-1	89	25148.5	1.0				ug/L	30090	KED
	Rh-1	103	166473.4	0.9				ug/L	200857	KED
	In-1	115	17568.6	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, December 11, 2023 10:58:34
Report Date/Time: Monday, December 11, 2023 15:50:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\Standard 7.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	230964.2	1.4	**99.6856**	1.221	1.2	ug/L	81	KED
|	**Ni-1**	60	99220.8	1.4	**99.5785**	0.947	1.0	ug/L	36	KED
|	**Ni-1**	62	15381.9	1.2	**99.4948**	0.414	0.4	ug/L	15	KED
|>	**Ge-1**	72	15744.0	1.1				ug/L	16172	KED
⌊	**As-2**	75	9611.2	2.8	**99.4878**	1.881	1.9	ug/L	2	KED
	Y-1	89	29316.7	0.5				ug/L	30090	KED
	Rh-1	103	196768.9	0.9				ug/L	200857	KED
	In-1	115	20948.7	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, December 11, 2023 11:03:53
Report Date/Time: Monday, December 11, 2023 15:50:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 1.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	125703.3	2.8	**50.7116**	0.281	0.6	ug/L	81	KED
|	**Ni-1**	60	54169.2	1.6	**50.8251**	0.514	1.0	ug/L	36	KED
|	**Ni-1**	62	8370.8	1.9	**50.5881**	0.211	0.4	ug/L	15	KED
|>	**Ge-1**	72	16836.9	2.3				ug/L	16172	KED
⌊	**As-2**	75	5012.5	3.5	**48.5102**	1.277	2.6	ug/L	2	KED
	Y-1	89	31682.4	1.3				ug/L	30090	KED
	Rh-1	103	210434.7	1.1				ug/L	200857	KED
	In-1	115	22233.8	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	101.423	
|	Ni-1	60	101.650	
|	Ni-1	62	101.176	
|>	Ge-1	72		104.108
⌊	As-2	75	97.020	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, December 11, 2023 11:09:13
Report Date/Time: Monday, December 11, 2023 15:50:10
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 2.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	102.4	6.9	**0.0104**	0.003	29.7	ug/L	81	KED
|	**Ni-1**	60	56.3	16.1	**0.0218**	0.009	42.2	ug/L	36	KED
|	**Ni-1**	62	10.3	20.1	**-0.0254**	0.014	53.8	ug/L	15	KED
| >	**Ge-1**	72	15722.0	1.8				ug/L	16172	KED
⌊	**As-2**	75	3.0	33.3	**0.0076**	0.011	139.6	ug/L	2	KED
	Y-1	89	29797.1	2.9				ug/L	30090	KED
	Rh-1	103	194034.6	1.3				ug/L	200857	KED
	In-1	115	20995.1	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		97.214
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 11:17:57
Report Date/Time: Monday, December 11, 2023 15:50:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	88590.9	1.4	**40.3349**	0.867	2.1	ug/L	81	KED
|	**Ni-1**	60	38027.9	1.8	**40.2528**	0.335	0.8	ug/L	36	KED
|	**Ni-1**	62	5834.2	3.0	**39.7585**	0.206	0.5	ug/L	15	KED
|>	**Ge-1**	72	14921.8	2.6				ug/L	16172	KED
⌊	**As-2**	75	3745.8	1.4	**40.9091**	0.531	1.3	ug/L	2	KED
	Y-1	89	28056.9	2.1				ug/L	30090	KED
	Rh-1	103	179467.4	1.4				ug/L	200857	KED
	In-1	115	20147.7	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.267
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 11:23:17
Report Date/Time: Monday, December 11, 2023 15:50:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	43909.0	3.0	**20.4276**	0.755	3.7	ug/L	81	KED
|	**Ni-1**	60	19179.9	2.2	**20.7447**	0.383	1.8	ug/L	36	KED
|	**Ni-1**	62	3010.0	2.4	**20.9387**	0.535	2.6	ug/L	15	KED
|>	**Ge-1**	72	14596.1	3.9				ug/L	16172	KED
⌊	**As-2**	75	1883.5	5.5	**21.0120**	0.801	3.8	ug/L	2	KED
	Y-1	89	27300.4	2.2				ug/L	30090	KED
	Rh-1	103	175859.5	2.3				ug/L	200857	KED
	In-1	115	19353.2	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		90.253
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 11:28:37
Report Date/Time: Monday, December 11, 2023 15:50:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	143.3	1.7	**0.0266**	0.003	10.8	ug/L	81	KED
|	**Ni-1**	60	64.0	1.6	**0.0280**	0.002	8.8	ug/L	36	KED
|	**Ni-1**	62	8.0	33.1	**-0.0414**	0.018	44.1	ug/L	15	KED
| >	**Ge-1**	72	16103.4	3.6				ug/L	16172	KED
⌊	**As-2**	75	2.0	50.0	**-0.0033**	0.010	318.0	ug/L	2	KED
	Y-1	89	30529.3	3.4				ug/L	30090	KED
	Rh-1	103	196960.5	0.7				ug/L	200857	KED
	In-1	115	21823.2	0.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		99.573
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-06a 2X

Sample Date/Time: Monday, December 11, 2023 11:33:56
Report Date/Time: Monday, December 11, 2023 15:50:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-06a 2X.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	5502.9	9.2	**2.5821**	0.208	8.1	ug/L	81	KED
|	**Ni-1**	60	2521.2	3.0	**2.7536**	0.051	1.9	ug/L	36	KED
|	**Ni-1**	62	375.7	3.5	**2.5883**	0.126	4.9	ug/L	15	KED
|>	**Ge-1**	72	14289.8	1.3				ug/L	16172	KED
⌊	**As-2**	75	339.0	4.8	**3.8432**	0.154	4.0	ug/L	2	KED
	Y-1	89	27873.2	1.4				ug/L	30090	KED
	Rh-1	103	167718.5	0.7				ug/L	200857	KED
	In-1	115	19241.5	0.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		88.359
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-08c 2X

Sample Date/Time: Monday, December 11, 2023 11:39:15
Report Date/Time: Monday, December 11, 2023 15:50:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-08c 2X.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	22469.8	0.8	**10.6167**	0.057	0.5	ug/L	81	KED
|	**Ni-1**	60	9588.2	0.7	**10.5334**	0.068	0.6	ug/L	36	KED
|	**Ni-1**	62	1480.7	6.7	**10.4312**	0.673	6.4	ug/L	15	KED
|>	**Ge-1**	72	14341.2	1.3				ug/L	16172	KED
⌊	**As-2**	75	897.7	7.0	**10.1768**	0.609	6.0	ug/L	2	KED
	Y-1	89	27385.2	1.3				ug/L	30090	KED
	Rh-1	103	170273.3	1.8				ug/L	200857	KED
	In-1	115	18946.3	0.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		88.677
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-11e 2X

Sample Date/Time: Monday, December 11, 2023 11:44:48
Report Date/Time: Monday, December 11, 2023 15:50:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-11e 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	49224.3	1.4	**22.4009**	0.175	0.8	ug/L	81	KED
|	**Ni-1**	60	21430.7	1.3	**22.6776**	0.106	0.5	ug/L	36	KED
|	**Ni-1**	62	3301.0	2.7	**22.4701**	0.623	2.8	ug/L	15	KED
|>	**Ge-1**	72	14914.4	1.4				ug/L	16172	KED
⌊	**As-2**	75	297.0	7.9	**3.2218**	0.234	7.3	ug/L	2	KED
	Y-1	89	31846.1	1.7				ug/L	30090	KED
	Rh-1	103	176387.9	2.0				ug/L	200857	KED
	In-1	115	19762.5	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.221
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-13e 2X

Sample Date/Time: Monday, December 11, 2023 11:53:56
Report Date/Time: Monday, December 11, 2023 15:50:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-13e 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	9981.8	1.1	**4.4408**	0.165	3.7	ug/L	81	KED
|	**Ni-1**	60	4256.3	3.5	**4.3984**	0.022	0.5	ug/L	36	KED
|	**Ni-1**	62	666.0	8.6	**4.3767**	0.247	5.6	ug/L	15	KED
|>	**Ge-1**	72	15173.7	3.0				ug/L	16172	KED
⌊	**As-2**	75	368.3	3.2	**3.9337**	0.010	0.3	ug/L	2	KED
	Y-1	89	28963.0	1.1				ug/L	30090	KED
	Rh-1	103	175218.4	0.6				ug/L	200857	KED
	In-1	115	20157.6	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		93.824
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-01f 2X

Sample Date/Time: Monday, December 11, 2023 11:59:15
Report Date/Time: Monday, December 11, 2023 15:50:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-01f 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3679.6	2.3	**1.6220**	0.031	1.9	ug/L	81	KED
|	**Ni-1**	60	1510.4	8.8	**1.5446**	0.116	7.5	ug/L	36	KED
|	**Ni-1**	62	240.3	5.0	**1.5285**	0.042	2.7	ug/L	15	KED
|>	**Ge-1**	72	15107.7	2.8				ug/L	16172	KED
⌊	**As-2**	75	487.3	4.6	**5.2336**	0.092	1.8	ug/L	2	KED
	Y-1	89	28597.3	1.0				ug/L	30090	KED
	Rh-1	103	179494.6	0.4				ug/L	200857	KED
	In-1	115	19825.2	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		93.416
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03f 2X

Sample Date/Time: Monday, December 11, 2023 12:04:34
Report Date/Time: Monday, December 11, 2023 15:50:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03f 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3601.6	4.4	**1.6021**	0.094	5.9	ug/L	81	KED
|	**Ni-1**	60	1445.4	5.7	**1.4913**	0.090	6.1	ug/L	36	KED
|	**Ni-1**	62	217.3	6.2	**1.3878**	0.103	7.4	ug/L	15	KED
|>	**Ge-1**	72	14972.5	1.4				ug/L	16172	KED
⌊	**As-2**	75	54.0	8.1	**0.5650**	0.056	9.9	ug/L	2	KED
	Y-1	89	28121.3	2.0				ug/L	30090	KED
	Rh-1	103	178037.2	0.6				ug/L	200857	KED
	In-1	115	20114.0	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.580
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-05c 2X

Sample Date/Time: Monday, December 11, 2023 12:09:52
Report Date/Time: Monday, December 11, 2023 15:50:29
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-05c 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3080.8	5.4	**1.3210**	0.076	5.8	ug/L	81	KED
|	**Ni-1**	60	1208.4	3.7	**1.2007**	0.040	3.3	ug/L	36	KED
|	**Ni-1**	62	175.7	7.7	**1.0661**	0.091	8.6	ug/L	15	KED
|>	**Ge-1**	72	15457.4	0.5				ug/L	16172	KED
⌊	**As-2**	75	31.7	22.2	**0.3106**	0.075	24.1	ug/L	2	KED
	Y-1	89	29137.7	1.7				ug/L	30090	KED
	Rh-1	103	183152.3	0.8				ug/L	200857	KED
	In-1	115	20656.7	0.8				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		95.578
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-07a 2X

Sample Date/Time: Monday, December 11, 2023 12:15:11
Report Date/Time: Monday, December 11, 2023 15:50:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-07a 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	731.2	4.6	**0.2856**	0.023	8.1	ug/L	81	KED
|	**Ni-1**	60	327.7	7.9	**0.2973**	0.017	5.7	ug/L	36	KED
|	**Ni-1**	62	51.7	11.8	**0.2460**	0.044	17.8	ug/L	15	KED
|>	**Ge-1**	72	15578.5	2.8				ug/L	16172	KED
⌊	**As-2**	75	8.7	37.1	**0.0673**	0.034	50.8	ug/L	2	KED
	Y-1	89	29243.9	1.4				ug/L	30090	KED
	Rh-1	103	184970.5	0.5				ug/L	200857	KED
	In-1	115	20821.4	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		96.327
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-08f 2X

Sample Date/Time: Monday, December 11, 2023 12:20:30
Report Date/Time: Monday, December 11, 2023 15:50:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-08f 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1907.1	2.1	**0.8440**	0.028	3.4	ug/L	81	KED
|	**Ni-1**	60	832.7	3.3	**0.8561**	0.022	2.6	ug/L	36	KED
|	**Ni-1**	62	121.3	12.5	**0.7458**	0.114	15.3	ug/L	15	KED
|>	**Ge-1**	72	14771.0	1.2				ug/L	16172	KED
⌊	**As-2**	75	11.0	39.6	**0.0980**	0.049	49.5	ug/L	2	KED
	Y-1	89	28125.3	0.7				ug/L	30090	KED
	Rh-1	103	172884.8	0.2				ug/L	200857	KED
	In-1	115	19709.9	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		91.334
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-266-01c 2X

Sample Date/Time: Monday, December 11, 2023 12:25:50
Report Date/Time: Monday, December 11, 2023 15:50:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-266-01c 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	15864.4	2.0	**7.0772**	0.113	1.6	ug/L	81	KED
|	**Ni-1**	60	7043.7	2.7	**7.3060**	0.109	1.5	ug/L	36	KED
|	**Ni-1**	62	1093.0	4.2	**7.2517**	0.151	2.1	ug/L	15	KED
|>	**Ge-1**	72	15166.4	2.2				ug/L	16172	KED
⌊	**As-2**	75	101.0	8.1	**1.0613**	0.068	6.4	ug/L	2	KED
	Y-1	89	30355.9	0.9				ug/L	30090	KED
	Rh-1	103	177316.5	1.8				ug/L	200857	KED
	In-1	115	20180.6	1.8				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		93.779
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 12:31:09
Report Date/Time: Monday, December 11, 2023 15:50:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86102.0	2.0	**40.2242**	0.328	0.8	ug/L	81	KED
|	**Ni-1**	60	37555.0	2.1	**40.7960**	0.309	0.8	ug/L	36	KED
|	**Ni-1**	62	5714.8	3.1	**39.9731**	0.767	1.9	ug/L	15	KED
|>	**Ge-1**	72	14537.4	1.6				ug/L	16172	KED
⌊	**As-2**	75	3579.4	4.6	**40.1240**	1.960	4.9	ug/L	2	KED
	Y-1	89	26947.1	0.8				ug/L	30090	KED
	Rh-1	103	172448.6	2.3				ug/L	200857	KED
	In-1	115	19302.1	0.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	100.560	
|	Ni-1	60	101.990	
|	Ni-1	62	99.933	
|>	Ge-1	72		89.890
⌊	As-2	75	100.310	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 12:36:28
Report Date/Time: Monday, December 11, 2023 15:50:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	44970.9	2.5	**20.7791**	0.070	0.3	ug/L	81	KED
|	**Ni-1**	60	19301.4	2.4	**20.7380**	0.208	1.0	ug/L	36	KED
|	**Ni-1**	62	3052.7	1.3	**21.0981**	0.306	1.5	ug/L	15	KED
| >	**Ge-1**	72	14686.9	2.3				ug/L	16172	KED
⌊	**As-2**	75	1872.5	2.9	**20.7682**	0.771	3.7	ug/L	2	KED
	Y-1	89	27352.2	2.2				ug/L	30090	KED
	Rh-1	103	175530.6	1.3				ug/L	200857	KED
	In-1	115	19756.4	3.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	103.896	
|	Ni-1	60	103.690	
|	Ni-1	62	105.490	
| >	Ge-1	72		90.814
⌊	As-2	75	103.841	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 12:41:48
Report Date/Time: Monday, December 11, 2023 15:50:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	92.4	10.8	**0.0042**	0.004	96.9	ug/L	81	KED
|	**Ni-1**	60	36.3	12.4	**0.0001**	0.005	8039.9	ug/L	36	KED
|	**Ni-1**	62	6.7	22.9	**-0.0513**	0.009	17.4	ug/L	15	KED
|>	**Ge-1**	72	16471.2	2.0				ug/L	16172	KED
⌊	**As-2**	75	1.7	69.3	**-0.0072**	0.011	153.1	ug/L	2	KED
	Y-1	89	30889.4	1.6				ug/L	30090	KED
	Rh-1	103	197794.2	2.7				ug/L	200857	KED
	In-1	115	22540.7	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		101.847
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: MB1211D1 2X

Sample Date/Time: Monday, December 11, 2023 12:48:51
Report Date/Time: Monday, December 11, 2023 15:50:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\MB1211D1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	101.5	4.7	**0.0063**	0.001	12.6	ug/L	81	KED
|	**Ni-1**	60	40.0	27.5	**0.0018**	0.009	501.4	ug/L	36	KED
|	**Ni-1**	62	6.3	55.5	**-0.0543**	0.022	40.8	ug/L	15	KED
| >	**Ge-1**	72	17175.3	3.8				ug/L	16172	KED
⌊	**As-2**	75	1.7	34.6	**-0.0077**	0.005	70.0	ug/L	2	KED
	Y-1	89	32587.5	1.4				ug/L	30090	KED
	Rh-1	103	205711.9	1.0				ug/L	200857	KED
	In-1	115	23522.1	1.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		106.201
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: SB1211D1 2X

Sample Date/Time: Monday, December 11, 2023 12:54:11
Report Date/Time: Monday, December 11, 2023 15:50:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\SB1211D1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86958.9	0.5	**39.3526**	0.233	0.6	ug/L	81	KED
|	**Ni-1**	60	37838.4	1.0	**39.8174**	0.390	1.0	ug/L	36	KED
|	**Ni-1**	62	5719.1	1.1	**38.7508**	0.088	0.2	ug/L	15	KED
|>	**Ge-1**	72	15007.9	0.9				ug/L	16172	KED
⌊	**As-2**	75	3742.8	1.7	**40.6324**	0.541	1.3	ug/L	2	KED
	Y-1	89	27795.0	0.7				ug/L	30090	KED
	Rh-1	103	177123.7	1.3				ug/L	200857	KED
	In-1	115	20227.9	0.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		92.799
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03g 2X

Sample Date/Time: Monday, December 11, 2023 12:59:30
Report Date/Time: Monday, December 11, 2023 15:50:50
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03g 2X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1140.3	1.9	**0.4505**	0.003	0.7	ug/L	81	KED
|	**Ni-1**	60	481.3	6.3	**0.4403**	0.023	5.2	ug/L	36	KED
|	**Ni-1**	62	75.3	16.1	**0.3869**	0.071	18.3	ug/L	15	KED
|>	**Ge-1**	72	16003.0	1.5				ug/L	16172	KED
⌊	**As-2**	75	36.3	25.4	**0.3458**	0.088	25.6	ug/L	2	KED
	Y-1	89	30012.5	2.2				ug/L	30090	KED
	Rh-1	103	185396.4	1.2				ug/L	200857	KED
	In-1	115	21465.3	1.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		98.952
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gD 2X

Sample Date/Time: Monday, December 11, 2023 13:04:48
Report Date/Time: Monday, December 11, 2023 15:50:52
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gD 2X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1129.7	5.7	**0.4454**	0.030	6.7	ug/L	81	KED
|	**Ni-1**	60	486.3	0.9	**0.4448**	0.004	0.8	ug/L	36	KED
|	**Ni-1**	62	77.7	6.6	**0.4016**	0.035	8.6	ug/L	15	KED
|>	**Ge-1**	72	16026.7	0.7				ug/L	16172	KED
⌊	**As-2**	75	39.3	10.3	**0.3765**	0.039	10.4	ug/L	2	KED
	Y-1	89	29962.4	2.0				ug/L	30090	KED
	Rh-1	103	185213.7	1.1				ug/L	200857	KED
	In-1	115	21637.0	0.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		99.098
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gL 10X

Sample Date/Time: Monday, December 11, 2023 13:10:08
Report Date/Time: Monday, December 11, 2023 15:50:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gL 10X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	302.3	5.9	**0.0960**	0.003	3.6	ug/L	81	KED
|	**Ni-1**	60	124.0	6.9	**0.0893**	0.012	13.0	ug/L	36	KED
|	**Ni-1**	62	19.7	16.3	**0.0340**	0.017	49.0	ug/L	15	KED
|>	**Ge-1**	72	15807.1	3.7				ug/L	16172	KED
⌊	**As-2**	75	11.7	26.2	**0.0966**	0.030	31.5	ug/L	2	KED
	Y-1	89	29898.6	0.5				ug/L	30090	KED
	Rh-1	103	185382.9	1.4				ug/L	200857	KED
	In-1	115	21277.2	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.741
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gMS 2X

Sample Date/Time: Monday, December 11, 2023 13:15:27
Report Date/Time: Monday, December 11, 2023 15:50:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gMS 2X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	92688.7	2.9	**39.8469**	0.442	1.1	ug/L	81	KED
|	**Ni-1**	60	40259.0	2.3	**40.2488**	0.279	0.7	ug/L	36	KED
|	**Ni-1**	62	6213.7	2.3	**40.0035**	0.422	1.1	ug/L	15	KED
|>	**Ge-1**	72	15797.4	2.5				ug/L	16172	KED
⌊	**As-2**	75	3982.9	1.2	**41.0875**	0.569	1.4	ug/L	2	KED
	Y-1	89	29536.9	2.8				ug/L	30090	KED
	Rh-1	103	183044.0	1.1				ug/L	200857	KED
	In-1	115	21208.1	2.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.681
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-03gMSD 2X

Sample Date/Time: Monday, December 11, 2023 13:20:46
Report Date/Time: Monday, December 11, 2023 15:50:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-03gMSD 2X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	93910.9	0.9	**40.2049**	0.138	0.3	ug/L	81	KED
|	**Ni-1**	60	40716.3	1.0	**40.5333**	0.276	0.7	ug/L	36	KED
|	**Ni-1**	62	6161.7	0.8	**39.4986**	0.086	0.2	ug/L	15	KED
| >	**Ge-1**	72	15864.1	1.0				ug/L	16172	KED
⌊	**As-2**	75	4099.9	2.2	**42.1102**	0.966	2.3	ug/L	2	KED
	Y-1	89	29942.0	1.7				ug/L	30090	KED
	Rh-1	103	183808.9	0.1				ug/L	200857	KED
	In-1	115	21517.3	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		98.093
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-06b 2X

Sample Date/Time: Monday, December 11, 2023 13:26:04
Report Date/Time: Monday, December 11, 2023 15:50:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-06b 2X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	3744.8	11.3	**1.7092**	0.185	10.8	ug/L	81	KED
|	**Ni-1**	60	1856.1	3.6	**1.9753**	0.073	3.7	ug/L	36	KED
|	**Ni-1**	62	260.7	4.3	**1.7281**	0.080	4.7	ug/L	15	KED
|>	**Ge-1**	72	14595.5	0.8				ug/L	16172	KED
⌊	**As-2**	75	280.0	5.1	**3.1040**	0.158	5.1	ug/L	2	KED
	Y-1	89	28830.1	0.5				ug/L	30090	KED
	Rh-1	103	171723.6	0.2				ug/L	200857	KED
	In-1	115	20589.4	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		90.249
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-08d 2X

Sample Date/Time: Monday, December 11, 2023 13:31:22
Report Date/Time: Monday, December 11, 2023 15:51:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-08d 2X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	18854.9	2.7	**8.6514**	0.198	2.3	ug/L	81	KED
|	**Ni-1**	60	8192.0	3.4	**8.7400**	0.267	3.1	ug/L	36	KED
|	**Ni-1**	62	1238.1	4.3	**8.4589**	0.326	3.9	ug/L	15	KED
|>	**Ge-1**	72	14755.6	0.5				ug/L	16172	KED
⌊	**As-2**	75	717.0	6.3	**7.8971**	0.471	6.0	ug/L	2	KED
	Y-1	89	27836.8	1.3				ug/L	30090	KED
	Rh-1	103	169972.5	0.3				ug/L	200857	KED
	In-1	115	19952.8	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		91.239
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-11f 2X

Sample Date/Time: Monday, December 11, 2023 13:36:41
Report Date/Time: Monday, December 11, 2023 15:51:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-11f 2X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	851.6	4.3	**0.3345**	0.008	2.4	ug/L	81	KED
|	**Ni-1**	60	364.3	4.4	**0.3318**	0.016	4.7	ug/L	36	KED
|	**Ni-1**	62	63.0	8.4	**0.3160**	0.023	7.4	ug/L	15	KED
|>	**Ge-1**	72	15708.3	2.6				ug/L	16172	KED
⌊	**As-2**	75	68.3	7.4	**0.6867**	0.067	9.7	ug/L	2	KED
	Y-1	89	29583.3	1.8				ug/L	30090	KED
	Rh-1	103	182781.6	0.6				ug/L	200857	KED
	In-1	115	21238.3	2.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.130
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 13:41:59
Report Date/Time: Monday, December 11, 2023 15:51:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	86252.7	0.7	**39.8340**	0.710	1.8	ug/L	81	KED
|	**Ni-1**	60	37304.3	2.3	**40.0506**	0.192	0.5	ug/L	36	KED
|	**Ni-1**	62	5695.5	1.3	**39.3850**	0.832	2.1	ug/L	15	KED
|>	**Ge-1**	72	14709.6	2.2				ug/L	16172	KED
⌊	**As-2**	75	3572.1	1.2	**39.5751**	0.768	1.9	ug/L	2	KED
	Y-1	89	27286.4	2.1				ug/L	30090	KED
	Rh-1	103	172111.8	1.8				ug/L	200857	KED
	In-1	115	19848.8	2.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	99.585	
|	Ni-1	60	100.127	
|	Ni-1	62	98.462	
|>	Ge-1	72		90.954
⌊	As-2	75	98.938	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 13:47:19
Report Date/Time: Monday, December 11, 2023 15:51:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	44227.3	1.8	**20.6844**	0.210	1.0	ug/L	81	KED
|	**Ni-1**	60	19053.0	1.8	**20.7198**	0.185	0.9	ug/L	36	KED
|	**Ni-1**	62	2927.6	2.7	**20.4711**	0.234	1.1	ug/L	15	KED
|>	**Ge-1**	72	14510.4	1.6				ug/L	16172	KED
⌊	**As-2**	75	1822.1	3.9	**20.4437**	0.517	2.5	ug/L	2	KED
	Y-1	89	26992.2	3.7				ug/L	30090	KED
	Rh-1	103	172017.5	1.0				ug/L	200857	KED
	In-1	115	19360.3	1.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	103.422	
|	Ni-1	60	103.599	
|	Ni-1	62	102.355	
|>	Ge-1	72		89.723
⌊	As-2	75	102.218	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 13:52:39
Report Date/Time: Monday, December 11, 2023 15:51:08
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	107.4	7.5	**0.0081**	0.002	30.7	ug/L	81	KED
|	**Ni-1**	60	38.7	21.1	**0.0002**	0.007	3294.7	ug/L	36	KED
|	**Ni-1**	62	6.3	9.1	**-0.0553**	0.004	6.6	ug/L	15	KED
|>	**Ge-1**	72	17393.9	1.6				ug/L	16172	KED
⌊	**As-2**	75	2.0	50.0	**-0.0048**	0.009	197.3	ug/L	2	KED
	Y-1	89	31011.3	0.6				ug/L	30090	KED
	Rh-1	103	196441.5	1.2				ug/L	200857	KED
	In-1	115	22707.4	1.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		107.553
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-183-13f 2X

Sample Date/Time: Monday, December 11, 2023 13:57:08
Report Date/Time: Monday, December 11, 2023 15:51:10
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-183-13f 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	6028.2	2.9	**2.7958**	0.127	4.5	ug/L	81	KED
|	**Ni-1**	60	2545.2	1.1	**2.7423**	0.031	1.1	ug/L	36	KED
|	**Ni-1**	62	407.0	1.9	**2.7714**	0.053	1.9	ug/L	15	KED
|>	**Ge-1**	72	14488.7	2.2				ug/L	16172	KED
⌊	**As-2**	75	259.0	3.0	**2.8909**	0.070	2.4	ug/L	2	KED
	Y-1	89	27404.9	1.7				ug/L	30090	KED
	Rh-1	103	163791.3	0.8				ug/L	200857	KED
	In-1	115	19208.1	2.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		89.588
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-01g 2X

Sample Date/Time: Monday, December 11, 2023 14:02:28
Report Date/Time: Monday, December 11, 2023 15:51:11
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-01g 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	2756.7	4.6	**1.1881**	0.040	3.3	ug/L	81	KED
|	**Ni-1**	60	1167.4	2.7	**1.1688**	0.027	2.3	ug/L	36	KED
|	**Ni-1**	62	177.7	9.0	**1.0899**	0.120	11.0	ug/L	15	KED
|>	**Ge-1**	72	15329.6	1.4				ug/L	16172	KED
⌊	**As-2**	75	251.0	4.8	**2.6450**	0.095	3.6	ug/L	2	KED
	Y-1	89	28581.9	0.7				ug/L	30090	KED
	Rh-1	103	176052.2	0.9				ug/L	200857	KED
	In-1	115	20958.4	1.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		94.788
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-05d 2X

Sample Date/Time: Monday, December 11, 2023 14:07:47
Report Date/Time: Monday, December 11, 2023 15:51:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-05d 2X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	503.8	5.5	**0.1841**	0.014	7.6	ug/L	81	KED
|	**Ni-1**	60	223.3	8.3	**0.1896**	0.016	8.7	ug/L	36	KED
|	**Ni-1**	62	32.7	7.7	**0.1195**	0.018	14.7	ug/L	15	KED
|>	**Ge-1**	72	15717.3	1.0				ug/L	16172	KED
⌊	**As-2**	75	10.0	10.0	**0.0802**	0.011	13.8	ug/L	2	KED
	Y-1	89	29325.1	0.9				ug/L	30090	KED
	Rh-1	103	180785.4	0.4				ug/L	200857	KED
	In-1	115	21227.5	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		97.186
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-07b 2X

Sample Date/Time: Monday, December 11, 2023 14:13:06
Report Date/Time: Monday, December 11, 2023 15:51:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-07b 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	393.4	6.8	**0.1395**	0.009	6.4	ug/L	81	KED
|	**Ni-1**	60	182.3	4.9	**0.1523**	0.014	8.9	ug/L	36	KED
|	**Ni-1**	62	25.7	45.2	**0.0771**	0.076	98.9	ug/L	15	KED
| >	**Ge-1**	72	15418.0	2.6				ug/L	16172	KED
⌊	**As-2**	75	9.7	36.3	**0.0783**	0.036	46.1	ug/L	2	KED
	Y-1	89	27985.7	1.7				ug/L	30090	KED
	Rh-1	103	175198.9	1.3				ug/L	200857	KED
	In-1	115	20494.1	3.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		95.335
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-213-08g 2X

Sample Date/Time: Monday, December 11, 2023 14:18:25
Report Date/Time: Monday, December 11, 2023 15:51:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-213-08g 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1165.6	2.7	**0.5108**	0.007	1.3	ug/L	81	KED
|	**Ni-1**	60	508.7	2.2	**0.5184**	0.029	5.6	ug/L	36	KED
|	**Ni-1**	62	78.0	1.3	**0.4544**	0.014	3.1	ug/L	15	KED
|>	**Ge-1**	72	14547.1	3.1				ug/L	16172	KED
⌊	**As-2**	75	13.3	11.5	**0.1263**	0.022	17.2	ug/L	2	KED
	Y-1	89	26699.9	2.0				ug/L	30090	KED
	Rh-1	103	162977.9	1.6				ug/L	200857	KED
	In-1	115	19482.9	1.2				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		89.950
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-266-01d 2X

Sample Date/Time: Monday, December 11, 2023 14:23:45
Report Date/Time: Monday, December 11, 2023 15:51:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-266-01d 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1634.4	1.6	**0.7321**	0.011	1.5	ug/L	81	KED
|	**Ni-1**	60	706.0	5.4	**0.7347**	0.044	6.0	ug/L	36	KED
|	**Ni-1**	62	112.3	6.1	**0.6970**	0.046	6.6	ug/L	15	KED
|>	**Ge-1**	72	14503.0	0.6				ug/L	16172	KED
⌊	**As-2**	75	9.3	37.6	**0.0815**	0.040	49.2	ug/L	2	KED
	Y-1	89	26225.4	3.1				ug/L	30090	KED
	Rh-1	103	165895.7	2.3				ug/L	200857	KED
	In-1	115	19391.7	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		89.677
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, December 11, 2023 14:29:04
Report Date/Time: Monday, December 11, 2023 15:51:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 6.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	81866.4	1.6	**39.8063**	0.580	1.5	ug/L	81	KED
|	**Ni-1**	60	35412.5	0.7	**40.0396**	0.317	0.8	ug/L	36	KED
|	**Ni-1**	62	5446.4	2.8	**39.6465**	0.631	1.6	ug/L	15	KED
|>	**Ge-1**	72	13968.5	1.4				ug/L	16172	KED
⌊	**As-2**	75	3445.1	1.6	**40.1840**	0.378	0.9	ug/L	2	KED
	Y-1	89	25622.6	1.5				ug/L	30090	KED
	Rh-1	103	162874.9	2.5				ug/L	200857	KED
	In-1	115	18981.1	0.6				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	99.516	
|	Ni-1	60	100.099	
|	Ni-1	62	99.116	
|>	Ge-1	72		86.372
⌊	As-2	75	100.460	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 14:34:24
Report Date/Time: Monday, December 11, 2023 15:51:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	43039.5	0.6	**20.4548**	0.280	1.4	ug/L	81	KED
|	**Ni-1**	60	18554.7	1.2	**20.5038**	0.282	1.4	ug/L	36	KED
|	**Ni-1**	62	2920.0	2.7	**20.7464**	0.183	0.9	ug/L	15	KED
|>	**Ge-1**	72	14281.5	2.0				ug/L	16172	KED
⌊	**As-2**	75	1789.8	3.6	**20.4049**	0.515	2.5	ug/L	2	KED
	Y-1	89	26303.2	1.8				ug/L	30090	KED
	Rh-1	103	164281.6	1.0				ug/L	200857	KED
	In-1	115	18921.3	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	102.274	
|	Ni-1	60	102.519	
|	Ni-1	62	103.732	
|>	Ge-1	72		88.307
⌊	As-2	75	102.025	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 14:39:44
Report Date/Time: Monday, December 11, 2023 15:51:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	99.6	6.2	**0.0062**	0.002	40.1	ug/L	81	KED
|	**Ni-1**	60	34.0	10.2	**-0.0030**	0.003	90.6	ug/L	36	KED
|	**Ni-1**	62	7.3	28.4	**-0.0483**	0.012	24.8	ug/L	15	KED
|>	**Ge-1**	72	16879.3	1.6				ug/L	16172	KED
⌊	**As-2**	75	3.3	62.4	**0.0085**	0.020	233.5	ug/L	2	KED
	Y-1	89	30090.7	0.5				ug/L	30090	KED
	Rh-1	103	187489.0	0.4				ug/L	200857	KED
	In-1	115	22018.4	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		104.371
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-02c 10X

Sample Date/Time: Monday, December 11, 2023 14:46:44
Report Date/Time: Monday, December 11, 2023 15:51:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-02c 10X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	510.3	4.5	**0.3047**	0.018	5.8	ug/L	81	KED
|	**Ni-1**	60	211.7	8.5	**0.2920**	0.033	11.3	ug/L	36	KED
|	**Ni-1**	62	44.0	28.4	**0.3451**	0.123	35.6	ug/L	15	KED
|>	**Ge-1**	72	10247.7	1.6				ug/L	16172	KED
⌊	**As-2**	75	16.3	15.4	**0.2364**	0.040	17.0	ug/L	2	KED
	Y-1	89	21443.7	0.7				ug/L	30090	KED
	Rh-1	103	114667.4	0.6				ug/L	200857	KED
	In-1	115	15068.7	1.4				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		63.365
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-03c 10X

Sample Date/Time: Monday, December 11, 2023 14:52:03
Report Date/Time: Monday, December 11, 2023 15:51:29
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-03c 10X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	457.9	5.6	**0.2657**	0.013	5.0	ug/L	81	KED
|	**Ni-1**	60	176.7	6.1	**0.2339**	0.012	5.0	ug/L	36	KED
|	**Ni-1**	62	42.0	16.5	**0.3199**	0.069	21.6	ug/L	15	KED
|>	**Ge-1**	72	10386.4	1.8				ug/L	16172	KED
⌊	**As-2**	75	21.0	8.2	**0.3065**	0.032	10.6	ug/L	2	KED
	Y-1	89	20996.8	0.4				ug/L	30090	KED
	Rh-1	103	114302.1	1.0				ug/L	200857	KED
	In-1	115	14708.8	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		64.223
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-04c 10X

Sample Date/Time: Monday, December 11, 2023 14:57:22
Report Date/Time: Monday, December 11, 2023 15:51:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-04c 10X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1402.1	4.3	**0.5799**	0.029	5.0	ug/L	81	KED
|	**Ni-1**	60	469.3	3.5	**0.4431**	0.023	5.1	ug/L	36	KED
|	**Ni-1**	62	90.7	8.3	**0.5024**	0.044	8.7	ug/L	15	KED
|>	**Ge-1**	72	15529.4	1.7				ug/L	16172	KED
⌊	**As-2**	75	156.3	3.0	**1.6185**	0.075	4.6	ug/L	2	KED
	Y-1	89	29020.4	0.6				ug/L	30090	KED
	Rh-1	103	176255.4	1.3				ug/L	200857	KED
	In-1	115	20611.3	1.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		96.024
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-05c 10X

Sample Date/Time: Monday, December 11, 2023 15:02:41
Report Date/Time: Monday, December 11, 2023 15:51:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-05c 10X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	469.7	2.9	**0.2632**	0.010	3.9	ug/L	81	KED
|	**Ni-1**	60	192.3	7.8	**0.2482**	0.025	9.9	ug/L	36	KED
|	**Ni-1**	62	49.7	9.5	**0.3781**	0.036	9.4	ug/L	15	KED
|>	**Ge-1**	72	10748.4	2.3				ug/L	16172	KED
⌊	**As-2**	75	23.0	37.9	**0.3271**	0.138	42.2	ug/L	2	KED
	Y-1	89	21899.8	1.2				ug/L	30090	KED
	Rh-1	103	119873.2	0.5				ug/L	200857	KED
	In-1	115	15128.1	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		66.461
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-01d 10X FF

Sample Date/Time: Monday, December 11, 2023 15:08:00
Report Date/Time: Monday, December 11, 2023 15:51:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-01d 10X FF.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1566.2	3.3	**0.8672**	0.027	3.1	ug/L	81	KED
|	**Ni-1**	60	706.7	1.2	**0.9106**	0.008	0.9	ug/L	36	KED
|	**Ni-1**	62	124.7	13.3	**0.9830**	0.140	14.3	ug/L	15	KED
|>	**Ge-1**	72	11813.9	0.3				ug/L	16172	KED
⌊	**As-2**	75	33.3	6.2	**0.4365**	0.030	6.8	ug/L	2	KED
	Y-1	89	22364.5	1.2				ug/L	30090	KED
	Rh-1	103	128501.4	0.7				ug/L	200857	KED
	In-1	115	15780.1	1.3				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		73.049
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-02d 10X

Sample Date/Time: Monday, December 11, 2023 15:13:18
Report Date/Time: Monday, December 11, 2023 15:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-02d 10X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	293.4	6.6	**0.1613**	0.012	7.1	ug/L	81	KED
|	**Ni-1**	60	137.7	4.8	**0.1782**	0.010	5.8	ug/L	36	KED
|	**Ni-1**	62	59.7	6.3	**0.5032**	0.042	8.3	ug/L	15	KED
|>	**Ge-1**	72	10214.3	0.7				ug/L	16172	KED
⌊	**As-2**	75	21.7	11.6	**0.3224**	0.041	12.8	ug/L	2	KED
	Y-1	89	19892.2	0.6				ug/L	30090	KED
	Rh-1	103	113184.6	0.4				ug/L	200857	KED
	In-1	115	14254.7	3.1				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		63.159
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-03d 10X

Sample Date/Time: Monday, December 11, 2023 15:18:37
Report Date/Time: Monday, December 11, 2023 15:51:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-03d 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	257.1	5.9	**0.1331**	0.012	9.1	ug/L	81	KED
|	**Ni-1**	60	111.0	12.1	**0.1328**	0.022	16.5	ug/L	36	KED
|	**Ni-1**	62	55.7	8.9	**0.4490**	0.042	9.4	ug/L	15	KED
| >	**Ge-1**	72	10473.2	1.6				ug/L	16172	KED
⌊	**As-2**	75	18.7	26.4	**0.2666**	0.075	28.0	ug/L	2	KED
	Y-1	89	20429.3	0.8				ug/L	30090	KED
	Rh-1	103	116981.0	1.0				ug/L	200857	KED
	In-1	115	14336.9	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		64.759
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-04d 10X

Sample Date/Time: Monday, December 11, 2023 15:23:57
Report Date/Time: Monday, December 11, 2023 15:51:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-04d 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	1139.4	2.5	**0.3999**	0.018	4.6	ug/L	81	KED
|	**Ni-1**	60	401.0	1.7	**0.3201**	0.012	3.9	ug/L	36	KED
|	**Ni-1**	62	100.7	17.9	**0.4812**	0.096	19.9	ug/L	15	KED
|>	**Ge-1**	72	17863.5	2.0				ug/L	16172	KED
⌊	**As-2**	75	158.7	10.4	**1.4267**	0.177	12.4	ug/L	2	KED
	Y-1	89	32843.0	1.6				ug/L	30090	KED
	Rh-1	103	204241.0	2.0				ug/L	200857	KED
	In-1	115	23216.6	1.7				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		110.456
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: 11-272-05d 10X

Sample Date/Time: Monday, December 11, 2023 15:29:16
Report Date/Time: Monday, December 11, 2023 15:51:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\11-272-05d 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	251.4	10.5	**0.1171**	0.015	13.2	ug/L	81	KED
|	**Ni-1**	60	122.7	15.1	**0.1365**	0.026	19.2	ug/L	36	KED
|	**Ni-1**	62	55.3	17.1	**0.4059**	0.084	20.7	ug/L	15	KED
| >	**Ge-1**	72	11316.1	0.8				ug/L	16172	KED
⌊	**As-2**	75	19.3	6.0	**0.2549**	0.015	5.7	ug/L	2	KED
	Y-1	89	22726.1	0.2				ug/L	30090	KED
	Rh-1	103	126898.8	0.6				ug/L	200857	KED
	In-1	115	15824.1	1.5				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
| >	Ge-1	72		69.972
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, December 11, 2023 15:39:55
Report Date/Time: Monday, December 11, 2023 15:51:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 7.059

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	49309.9	1.1	**20.2062**	0.556	2.8	ug/L	81	KED
|	**Ni-1**	60	21582.0	1.4	**20.5605**	0.306	1.5	ug/L	36	KED
|	**Ni-1**	62	3296.4	1.4	**20.1970**	0.547	2.7	ug/L	15	KED
|>	**Ge-1**	72	16565.3	1.8				ug/L	16172	KED
⌊	**As-2**	75	2108.8	1.9	**20.7387**	0.751	3.6	ug/L	2	KED
	Y-1	89	29749.0	2.2				ug/L	30090	KED
	Rh-1	103	190879.9	1.1				ug/L	200857	KED
	In-1	115	21840.9	0.9				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58	101.031	
|	Ni-1	60	102.802	
|	Ni-1	62	100.985	
|>	Ge-1	72		102.429
⌊	As-2	75	103.694	
	Y-1	89		
	Rh-1	103		
	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, December 11, 2023 15:45:15
Report Date/Time: Monday, December 11, 2023 15:51:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\X231211B2.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\X231211B\QC Std 8.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
⌈	**Ni-1**	58	101.3	9.4	**0.0011**	0.004	323.7	ug/L	81	KED
|	**Ni-1**	60	35.3	21.2	**-0.0064**	0.006	100.3	ug/L	36	KED
|	**Ni-1**	62	18.7	16.4	**0.0044**	0.017	385.2	ug/L	15	KED
|>	**Ge-1**	72	19677.2	1.5				ug/L	16172	KED
⌊	**As-2**	75	3.0	33.3	**0.0014**	0.008	621.1	ug/L	2	KED
	Y-1	89	34240.0	1.4				ug/L	30090	KED
	Rh-1	103	217713.1	0.5				ug/L	200857	KED
	In-1	115	24962.6	2.0				ug/L	21407	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
⌈	Ni-1	58		
|	Ni-1	60		
|	Ni-1	62		
|>	Ge-1	72		121.671
⌊	As-2	75		
	Y-1	89		
	Rh-1	103		
	In-1	115		

Std Name	Lab ID	Source	Source ID	Exp	Intm Conc ppm	Intm Vol mL	Final Conc ppm	Final Vol mL	Comments	Init	Date
Std 1	TM11-106-01	6020 100x	TM11-105-38	12-25-23	.2	.05	.0002	50	5% HNO3	KAM	12-11-23
2	02	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	03	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	04	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	05	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	06	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	07	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	08	IVPECHK1	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
Std 1	TM11-106-09	6020 100x	TM11-105-38	12-15-23	.2	.05	.0002	50	5% HNO3	KAM	12-15-23
2	10	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	11	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	12	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	13	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	14	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	15	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	16	IVPECHK1	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
Std 1	TM11-106-17	6020 100x	TM11-105-38	12-15-23	.2	.05	.0002	50	5% HNO3	KAM	12-15-23
2	18	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	19	6020 10x	TM11-105-37	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	20	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	21	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	22	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	23	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	24	IVPECHK1	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
6020 10x	TM11106-25	IV6020Cal-1	T2MEB726406	8-18-24	20	1.0	2	10	2% HNO3	KAM	12-18-23
6020 100x	26	⊥	⊥	⊥	20	0.1	.2	⊥	⊥	⊥	⊥
Std 1	TM11-106 27	6020 100x	TM11106-26	1-1-24	.2	.05	.0002	50	5% HNO3	KAM	12-18-23
2	28	⊥	⊥	⊥	⊥	.125	.0005	⊥	⊥	⊥	⊥
3	29	6020 10x	TM11-106-25	⊥	2	.05	.002	⊥	⊥	⊥	⊥
4	30	⊥	⊥	⊥	⊥	.125	.005	⊥	⊥	⊥	⊥
5	31	IV6020Cal-1	T2MEB726406	8-18-24	20	.05	.02	⊥	⊥	⊥	⊥
6	32	⊥	⊥	⊥	⊥	.10	.04	⊥	⊥	⊥	⊥
7	33	⊥	⊥	⊥	⊥	.25	.10	⊥	⊥	⊥	⊥
ICW	34	IVPECHK1	S2MEB709269	5-24-24	10	.25	.05	⊥	⊥	⊥	⊥
ICSA	TM11-106-35	IV6020ICSA	T2MEB726406	8-18-24	20	1.0	2	50	5% HNO3	KAM	12-18-23
ICSAD	36	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥
⊥	⊥	IV6020Cal-1	T2MEB726406	8-18-24	20	.1	.04	⊥	⊥	⊥	⊥

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 8, 2024

Robert Trahan
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-18
Laboratory Reference No. 2402-208

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on February 15, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

Case Narrative

Samples were collected on February 14, 2024 and received by the laboratory on February 15, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270E/SIM Analysis

Samples MW-3A-240214 and DUP-240214 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B-240214	02-208-01	Water	2-14-24	2-15-24	
MW-3A-240214	02-208-02	Water	2-14-24	2-15-24	
MW-6-240214	02-208-03	Water	2-14-24	2-15-24	
MW-8-240214	02-208-04	Water	2-14-24	2-15-24	
DUP-240214	02-208-05	Water	2-14-24	2-15-24	

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240214**					
Laboratory ID:	02-208-01					
Naphthalene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
2-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
1-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthylene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Fluorene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Phenanthrene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Anthracene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Pyrene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	2-21-24	2-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*51*	*26-106*				
Pyrene-d10	*58*	*45-104*				
Terphenyl-d14	*60*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3A-240214**					
Laboratory ID:	02-208-02					
Naphthalene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
2-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
1-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthylene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Fluorene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Phenanthrene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Anthracene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Pyrene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	2-21-24	2-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*46*	*26-106*				
Pyrene-d10	*44*	*45-104*				Q
Terphenyl-d14	*44*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-240214**					
Laboratory ID:	02-208-03					
Naphthalene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
2-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
1-Methylnaphthalene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Acenaphthylene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Acenaphthene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Fluorene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Phenanthrene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Anthracene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Pyrene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	2-16-24	2-16-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*43*	*26-106*				
Pyrene-d10	*54*	*45-104*				
Terphenyl-d14	*55*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8-240214**					
Laboratory ID:	02-208-04					
Naphthalene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
2-Methylnaphthalene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
1-Methylnaphthalene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthylene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Acenaphthene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Fluorene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Phenanthrene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Anthracene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Fluoranthene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Pyrene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Benzo[g,h,i]perylene	**ND**	0.0095	EPA 8270E/SIM	2-21-24	2-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*50*	*26-106*				
Pyrene-d10	*56*	*45-104*				
Terphenyl-d14	*60*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-240214**					
Laboratory ID:	02-208-05					
Naphthalene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
2-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
1-Methylnaphthalene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Acenaphthylene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Acenaphthene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Fluorene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Phenanthrene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Anthracene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Pyrene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	2-16-24	2-21-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*45*	*26-106*				
Pyrene-d10	*45*	*45-104*				Q
Terphenyl-d14	*46*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240214**					
Laboratory ID:	02-208-01					
Arsenic	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Client ID:	**MW-3A-240214**					
Laboratory ID:	02-208-02					
Arsenic	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Client ID:	**MW-6-240214**					
Laboratory ID:	02-208-03					
Arsenic	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Client ID:	**MW-8-240214**					
Laboratory ID:	02-208-04					
Arsenic	**16**	6.9	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Client ID:	**DUP-240214**					
Laboratory ID:	02-208-05					
Arsenic	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	6.9	EPA 200.8	3-8-24	3-8-24	

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240214**					
Laboratory ID:	02-208-01					
Arsenic	**ND**	6.3	EPA 200.8		3-8-24	
Nickel	**ND**	6.3	EPA 200.8		3-8-24	
Client ID:	**MW-3A-240214**					
Laboratory ID:	02-208-02					
Arsenic	**ND**	6.3	EPA 200.8		3-8-24	
Nickel	**ND**	6.3	EPA 200.8		3-8-24	
Client ID:	**MW-6-240214**					
Laboratory ID:	02-208-03					
Arsenic	**ND**	6.3	EPA 200.8		3-8-24	
Nickel	**ND**	6.3	EPA 200.8		3-8-24	
Client ID:	**MW-8-240214**					
Laboratory ID:	02-208-04					
Arsenic	**16**	6.3	EPA 200.8		3-8-24	
Nickel	**ND**	6.3	EPA 200.8		3-8-24	
Client ID:	**DUP-240214**					
Laboratory ID:	02-208-05					
Arsenic	**ND**	6.3	EPA 200.8		3-8-24	
Nickel	**ND**	6.3	EPA 200.8		3-8-24	

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0216W1					
Naphthalene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
2-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
1-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Acenaphthylene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Acenaphthene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Fluorene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Phenanthrene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Anthracene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Pyrene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	2-16-24	2-20-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*26-106*				
Pyrene-d10	*77*	*45-104*				
Terphenyl-d14	*79*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0221W1					
Naphthalene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
2-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
1-Methylnaphthalene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Acenaphthylene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Acenaphthene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Fluorene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Phenanthrene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Anthracene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Pyrene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	2-21-24	2-22-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*37*	*26-106*				
Pyrene-d10	*45*	*45-104*				
Terphenyl-d14	*45*	*43-114*				

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0216W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.298**	**0.275**	0.500	0.500	60	55	35 - 84	8	34	
Acenaphthylene	**0.358**	**0.315**	0.500	0.500	72	63	44 - 97	13	29	
Acenaphthene	**0.319**	**0.286**	0.500	0.500	64	57	40 - 93	11	29	
Fluorene	**0.344**	**0.301**	0.500	0.500	69	60	46 - 97	13	24	
Phenanthrene	**0.364**	**0.317**	0.500	0.500	73	63	49 - 102	14	21	
Anthracene	**0.370**	**0.316**	0.500	0.500	74	63	50 - 99	16	21	
Fluoranthene	**0.393**	**0.350**	0.500	0.500	79	70	53 - 107	12	21	
Pyrene	**0.422**	**0.347**	0.500	0.500	84	69	52 - 111	20	23	
Benzo[a]anthracene	**0.458**	**0.390**	0.500	0.500	92	78	51 - 119	16	20	
Chrysene	**0.380**	**0.331**	0.500	0.500	76	66	52 - 113	14	21	
Benzo[b]fluoranthene	**0.467**	**0.415**	0.500	0.500	93	83	50 - 116	12	24	
Benzo(j,k)fluoranthene	**0.446**	**0.367**	0.500	0.500	89	73	54 - 113	19	22	
Benzo[a]pyrene	**0.449**	**0.387**	0.500	0.500	90	77	52 - 110	15	21	
Indeno(1,2,3-c,d)pyrene	**0.495**	**0.424**	0.500	0.500	99	85	55 - 114	15	21	
Dibenz[a,h]anthracene	**0.468**	**0.396**	0.500	0.500	94	79	55 - 111	17	19	
Benzo[g,h,i]perylene	**0.460**	**0.393**	0.500	0.500	92	79	52 - 111	16	20	
Surrogate:										
2-Fluorobiphenyl					*66*	*60*	*26-106*			
Pyrene-d10					*86*	*73*	*45-104*			
Terphenyl-d14					*90*	*78*	*43-114*			

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0221W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.271**	**0.294**	0.500	0.500	54	59	35 - 84	8	34	
Acenaphthylene	**0.309**	**0.342**	0.500	0.500	62	68	44 - 97	10	29	
Acenaphthene	**0.282**	**0.315**	0.500	0.500	56	63	40 - 93	11	29	
Fluorene	**0.298**	**0.324**	0.500	0.500	60	65	46 - 97	8	24	
Phenanthrene	**0.300**	**0.329**	0.500	0.500	60	66	49 - 102	9	21	
Anthracene	**0.313**	**0.340**	0.500	0.500	63	68	50 - 99	8	21	
Fluoranthene	**0.315**	**0.341**	0.500	0.500	63	68	53 - 107	8	21	
Pyrene	**0.326**	**0.353**	0.500	0.500	65	71	52 - 111	8	23	
Benzo[a]anthracene	**0.306**	**0.353**	0.500	0.500	61	71	51 - 119	14	20	
Chrysene	**0.325**	**0.350**	0.500	0.500	65	70	52 - 113	7	21	
Benzo[b]fluoranthene	**0.380**	**0.425**	0.500	0.500	76	85	50 - 116	11	24	
Benzo(j,k)fluoranthene	**0.301**	**0.322**	0.500	0.500	60	64	54 - 113	7	22	
Benzo[a]pyrene	**0.341**	**0.381**	0.500	0.500	68	76	52 - 110	11	21	
Indeno(1,2,3-c,d)pyrene	**0.355**	**0.432**	0.500	0.500	71	86	55 - 114	20	21	
Dibenz[a,h]anthracene	**0.343**	**0.403**	0.500	0.500	69	81	55 - 111	16	19	
Benzo[g,h,i]perylene	**0.340**	**0.397**	0.500	0.500	68	79	52 - 111	15	20	
Surrogate:										
2-Fluorobiphenyl					*60*	*69*	*26-106*			
Pyrene-d10					*72*	*72*	*45-104*			
Terphenyl-d14					*72*	*74*	*43-114*			

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308WM1					
Arsenic	**ND**	3.3	EPA 200.8	3-8-24	3-8-24	
Nickel	**ND**	7.8	EPA 200.8	3-8-24	3-8-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-243-13										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	01-243-13										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**111**	**115**	111	111	ND	**100**	**104**	75-125	3	20	
Nickel	**109**	**112**	111	111	ND	**98**	**101**	75-125	3	20	

Date of Report: March 8, 2024
Samples Submitted: February 15, 2024
Laboratory Reference: 2402-208
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0308D1					
Arsenic	**ND**	3.0	EPA 200.8		3-8-24	
Nickel	**ND**	8.0	EPA 200.8		3-8-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-208-02										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	02-208-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**1020**	**1080**	1000	1000	ND	**102**	**108**	75-125	5	20	
Nickel	**933**	**960**	1000	1000	ND	**93**	**96**	75-125	3	20	

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 02-208

Company: GeoEngineers
Project Number: 5147-006-18
Project Name: DCI - Post Construction GWM
Project Manager: Robert Trattner
Sampled by: Nathan Solomon

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TOTAL As & Ni	DISS. As & Ni			% Moisture
1	MW-2B-240214	2.14.24	1450	WATER	4									X									X	X			
2	MW-3A-240214		1535		4									X									X	X			
3	MW-6-240214		1345		4									X									X	X			
4	MW-8-240214		1705		4									X									X	X			
5	DUP-240214		1200		4									X									X	X			

	Signature	Company	Date	Time
Relinquished		GEI	2/15/24	1540
Received		OSE	2/15/24	1540
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
FF = Field Filtered

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: GER

Client Project Name/Number: 5147-006-18

OnSite Project Number: 02-208

Initiated by: MV

Date Initiated: 2/15/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	4
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

COMPLETE DATA PACKAGE

- PAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals by EPA 200.8

PAHs EPA 8270E/SIM

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221013.D
Acq On : 21 Feb 2024 3:54 pm
Operator : JP
Sample : 02-208-01 REX
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 08:42:59 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.754	136	101251	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.056	164	46481	2000.00	ppb	-0.09
9) Phenanthrene-d10	5.045	188	88396	2000.00	ppb	-0.09
16) Chrysene-d12	6.787	240	73696	2000.00	ppb	-0.14
20) Perylene-d12	7.844	264	79742	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.640	172	21405	510.47	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.05%			
10) Pyrene-d10	5.973	212	24415	580.45	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 58.05%			
17) Terphenyl-d14	6.155	244	20390	603.63	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 60.36%			
Target Compounds						Qvalue

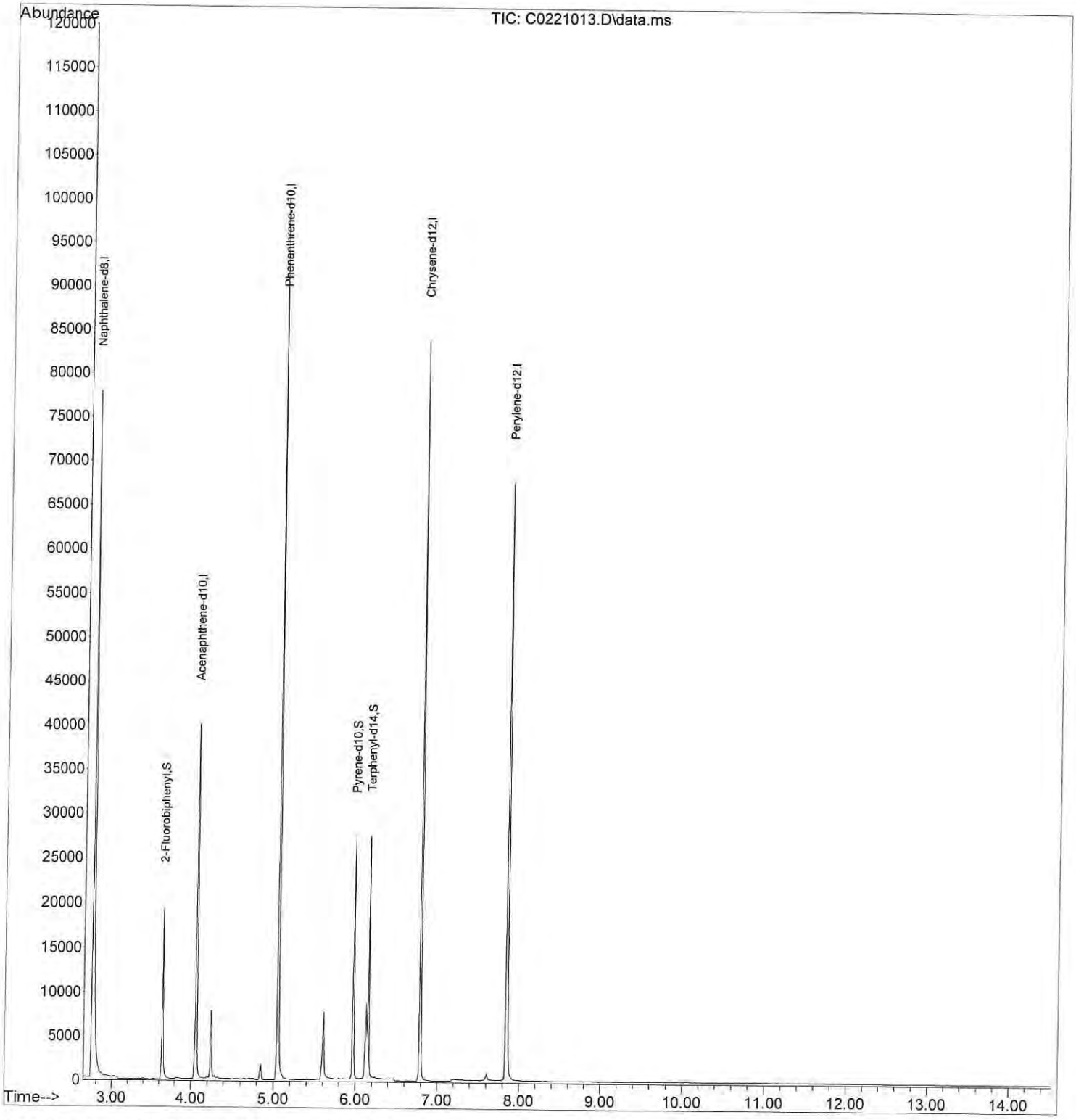
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JF 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221013.D
Acq On : 21 Feb 2024 3:54 pm
Operator : JP
Sample : 02-208-01 REX
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 08:42:59 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221014.D
Acq On : 21 Feb 2024 4:15 pm
Operator : JP
Sample : 02-208-02 REX
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 23 08:43:29 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.755	136	92159	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.063	164	45192	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	85522	2000.00	ppb	-0.08
16) Chrysene-d12	6.782	240	72567	2000.00	ppb	-0.15
20) Perylene-d12	7.844	264	76460	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.641	172	18556	455.15	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 45.52%			
10) Pyrene-d10	5.974	212	17928	440.55	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 44.06%			
17) Terphenyl-d14	6.156	244	14642	440.21	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 44.02%			
Target Compounds						Qvalue

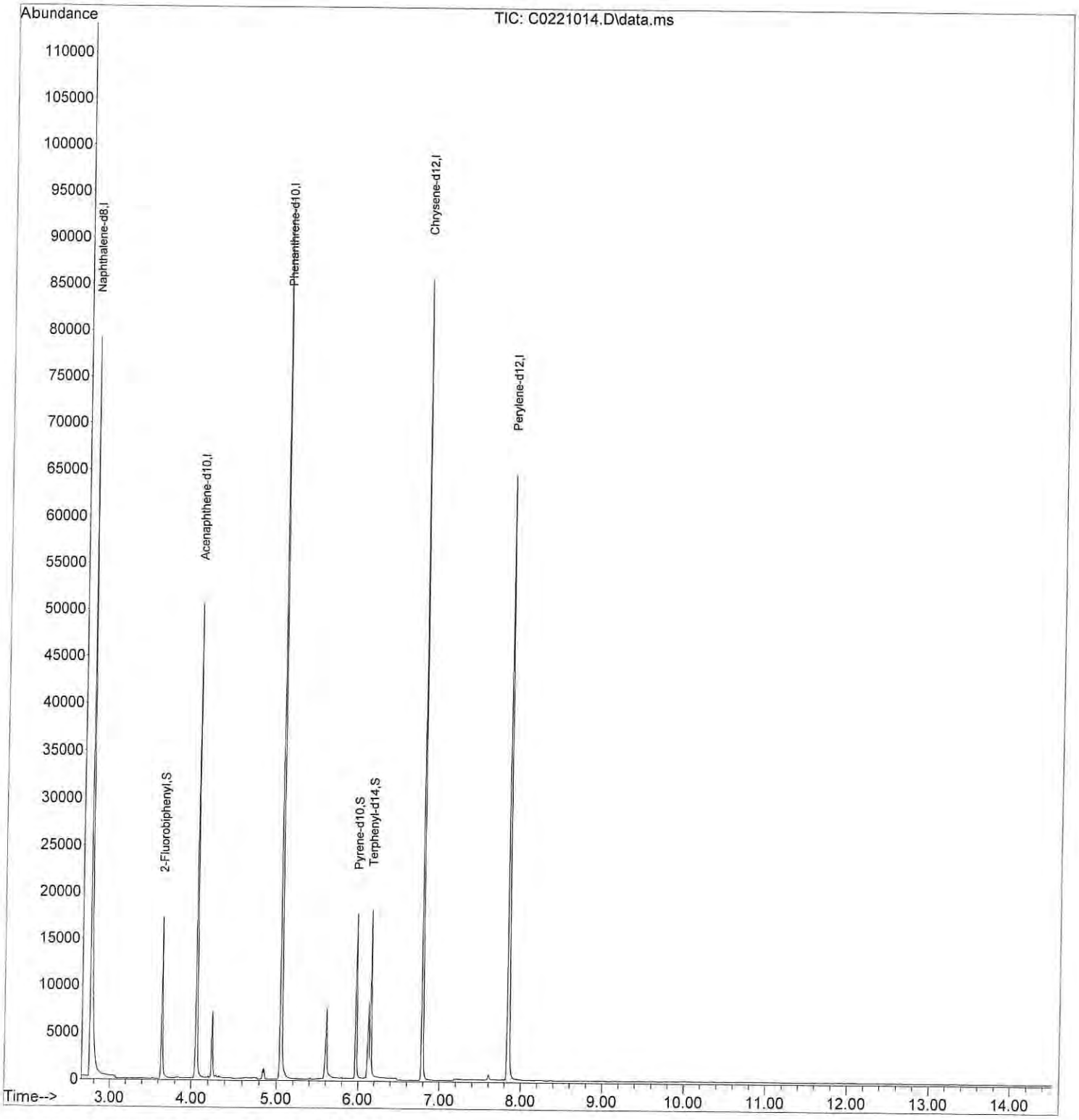
(#) = qualifier out of range (m) = manual integration (+) = signals summed

VP
2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221014.D
Acq On : 21 Feb 2024 4:15 pm
Operator : JP
Sample : 02-208-02 REX
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 23 08:43:29 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216017.D
Acq On : 16 Feb 2024 4:45 pm
Operator : JP
Sample : 02-208-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 20 09:54:42 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.762	136	100622	2000.00	ppb	-0.09
5) Acenaphthene-d10	4.064	164	47657	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	91329	2000.00	ppb	-0.08
16) Chrysene-d12	6.787	240	78212	2000.00	ppb	-0.14
20) Perylene-d12	7.845	264	82604	2000.00	ppb	-0.17
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.640	172	18699	434.93	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 43.49%			
10) Pyrene-d10	5.973	212	23371	537.79	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 53.78%			
17) Terphenyl-d14	6.155	244	19562	545.68	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 54.57%			
Target Compounds						Qvalue

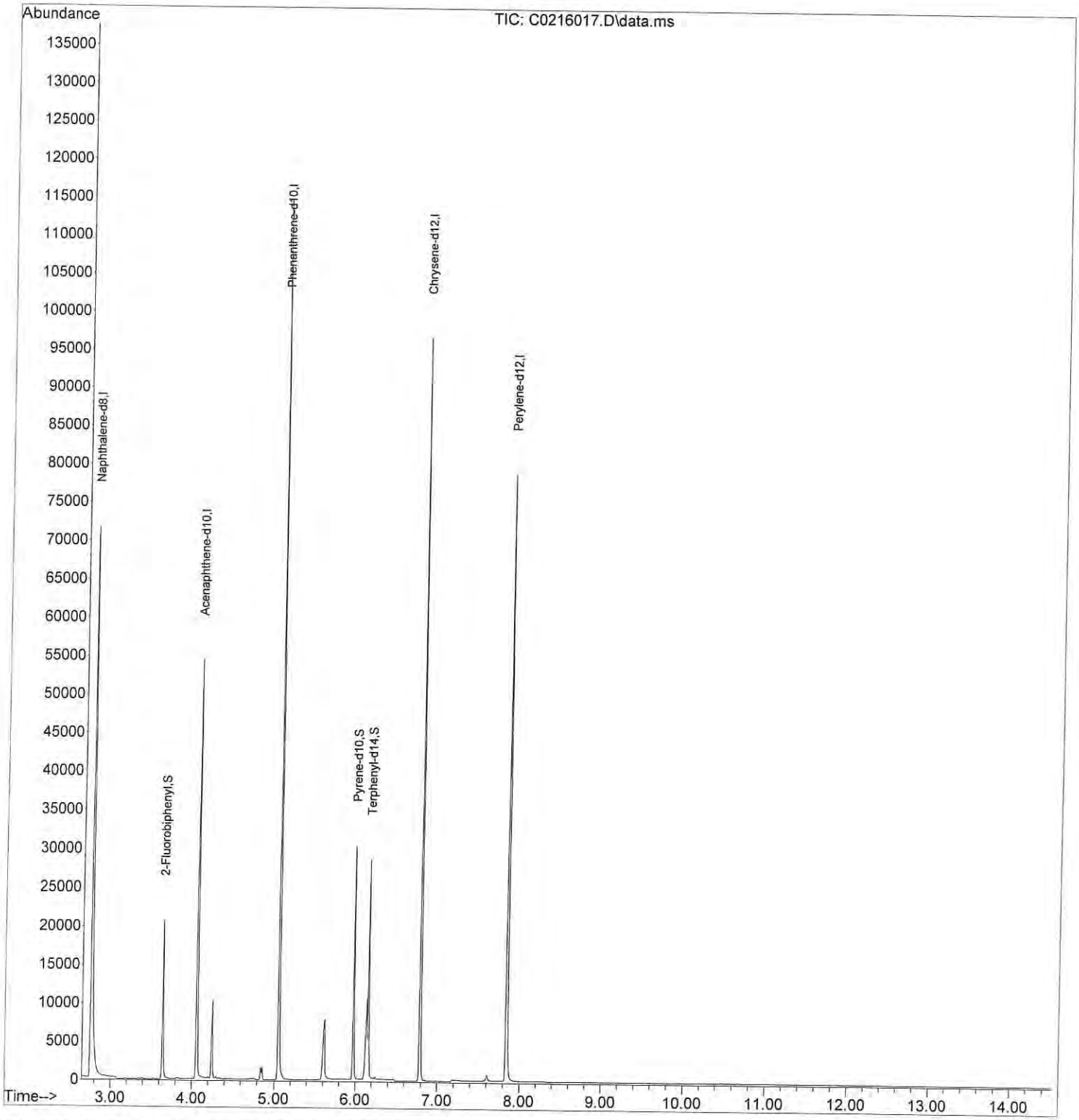
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JF
2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216017.D
Acq On : 16 Feb 2024 4:45 pm
Operator : JP
Sample : 02-208-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 20 09:54:42 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221015.D
Acq On : 21 Feb 2024 4:37 pm
Operator : JP
Sample : 02-208-04 REX
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 23 08:44:37 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.755	136	99172	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.063	164	47297	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.045	188	86909	2000.00	ppb	-0.09
16) Chrysene-d12	6.781	240	73944	2000.00	ppb	-0.15
20) Perylene-d12	7.838	264	79193	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.639	172	21204	496.95	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 49.70%			
10) Pyrene-d10	5.973	212	23330	564.15	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 56.41%			
17) Terphenyl-d14	6.155	244	20405	602.04	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 60.20%			
Target Compounds						Qvalue

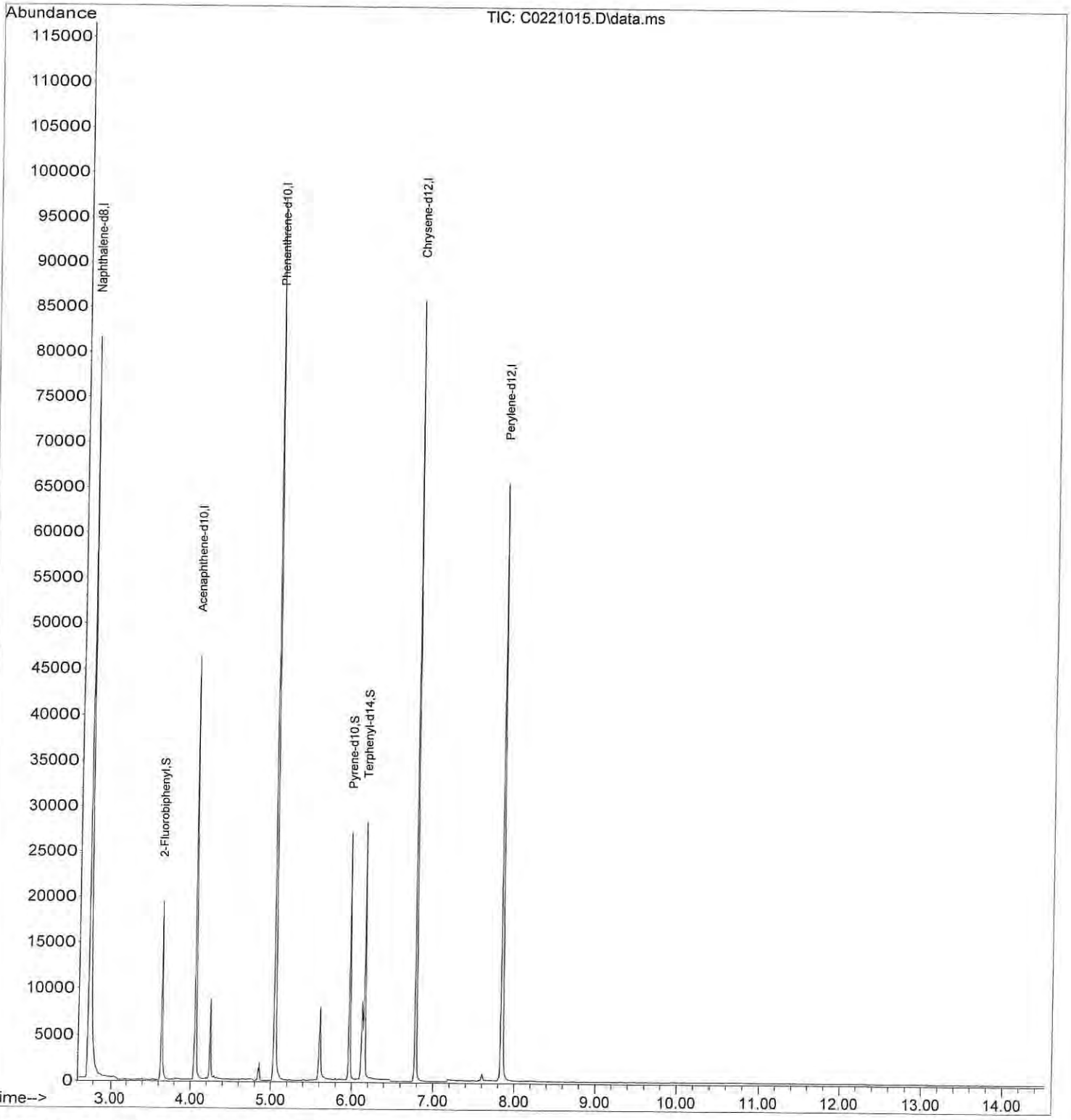
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221015.D
Acq On : 21 Feb 2024 4:37 pm
Operator : JP
Sample : 02-208-04 REX
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 23 08:44:37 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221012.D
Acq On : 21 Feb 2024 3:32 pm
Operator : JP
Sample : 02-208-05 RR
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 23 08:42:21 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.754	136	93795	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.064	164	46216	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.050	188	87295	2000.00	ppb	-0.08
16) Chrysene-d12	6.782	240	72819	2000.00	ppb	-0.15
20) Perylene-d12	7.843	264	78653	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.640	172	18783	450.51	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 45.05%			
10) Pyrene-d10	5.973	212	18598	447.73	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 44.77%			
17) Terphenyl-d14	6.156	244	15363	460.28	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 46.03%			
Target Compounds						Qvalue

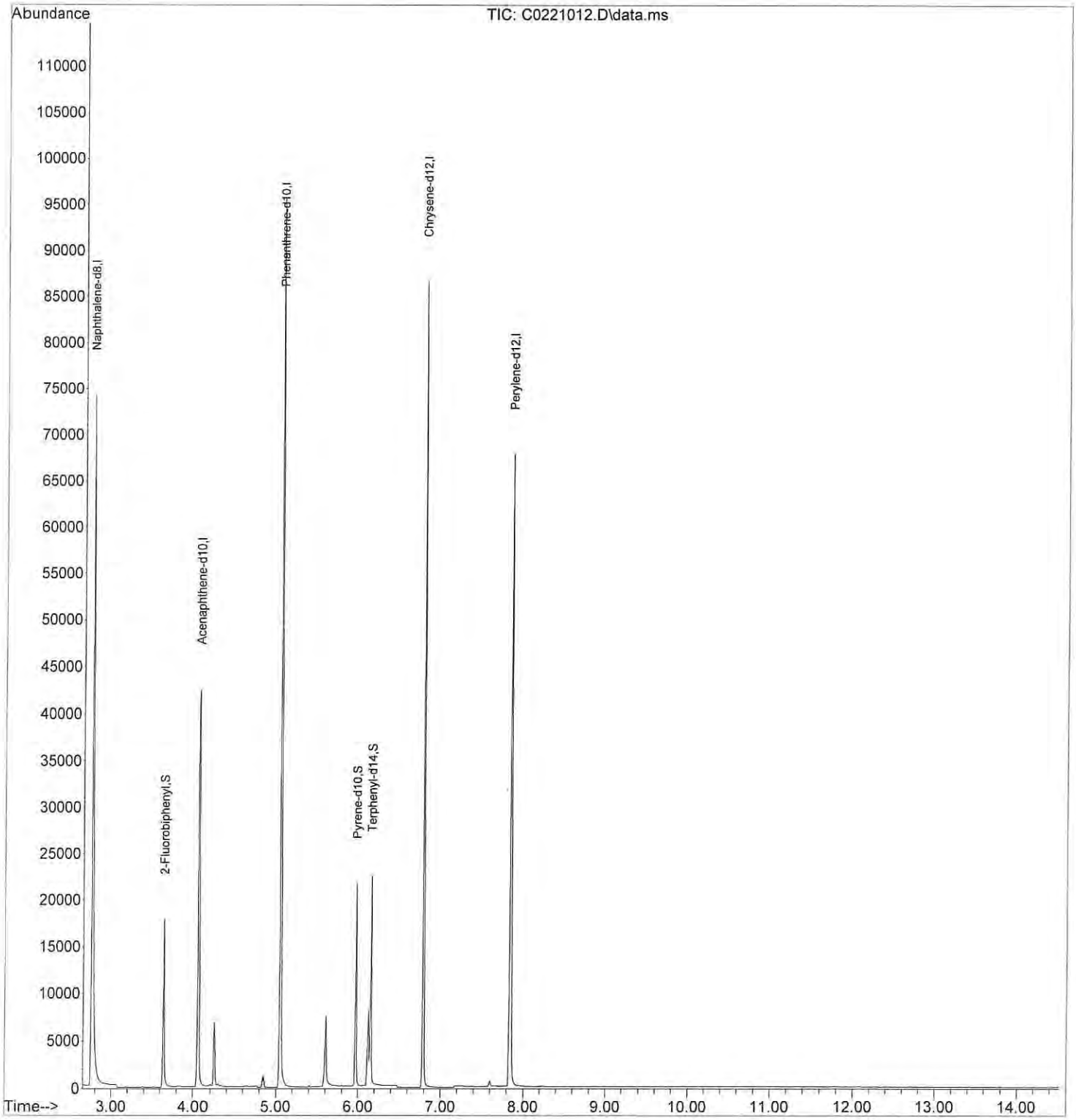
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221012.D
Acq On : 21 Feb 2024 3:32 pm
Operator : JP
Sample : 02-208-05 RR
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 23 08:42:21 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240220\
Data File : C0220003.D
Acq On : 20 Feb 24 11:21 am
Operator : JP
Sample : MB0216W1 REX
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 09:42:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.756	136	103973	2000.00	ppb	-0.09
5) Acenaphthene-d10	4.063	164	50960	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	96024	2000.00	ppb	-0.08
16) Chrysene-d12	6.788	240	82721	2000.00	ppb	-0.14
20) Perylene-d12	7.844	264	89730	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.641	172	26793	582.80	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 58.28%			
10) Pyrene-d10	5.974	212	35208	770.56	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 77.06%			
17) Terphenyl-d14	6.156	244	29935	789.51	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.95%			
Target Compounds						Qvalue

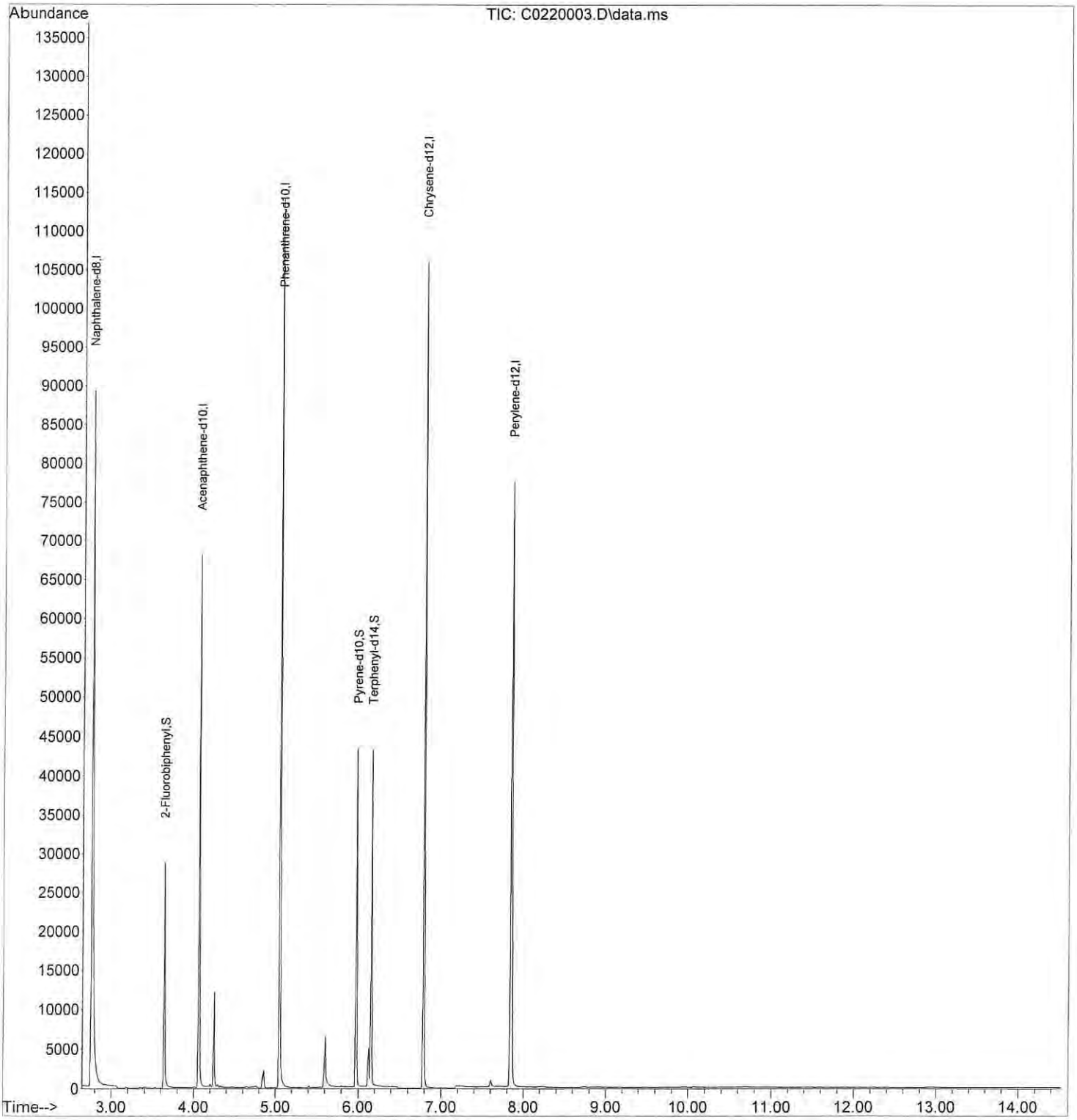
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240220\
Data File : C0220003.D
Acq On : 20 Feb 24 11:21 am
Operator : JP
Sample : MB0216W1 REX
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 09:42:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240222\
Data File : C0222007.D
Acq On : 22 Feb 2024 11:38 am
Operator : JP
Sample : MB0221W1 RR
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 07:46:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.755	136	104818	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.063	164	49492	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	94760	2000.00	ppb	-0.08
16) Chrysene-d12	6.781	240	81475	2000.00	ppb	-0.15
20) Perylene-d12	7.838	264	86765	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.647	172	16346	366.10	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 36.61%			
10) Pyrene-d10	5.974	212	20488	454.38	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 45.44%			
17) Terphenyl-d14	6.157	244	16938	453.56	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 45.36%			
Target Compounds						Qvalue

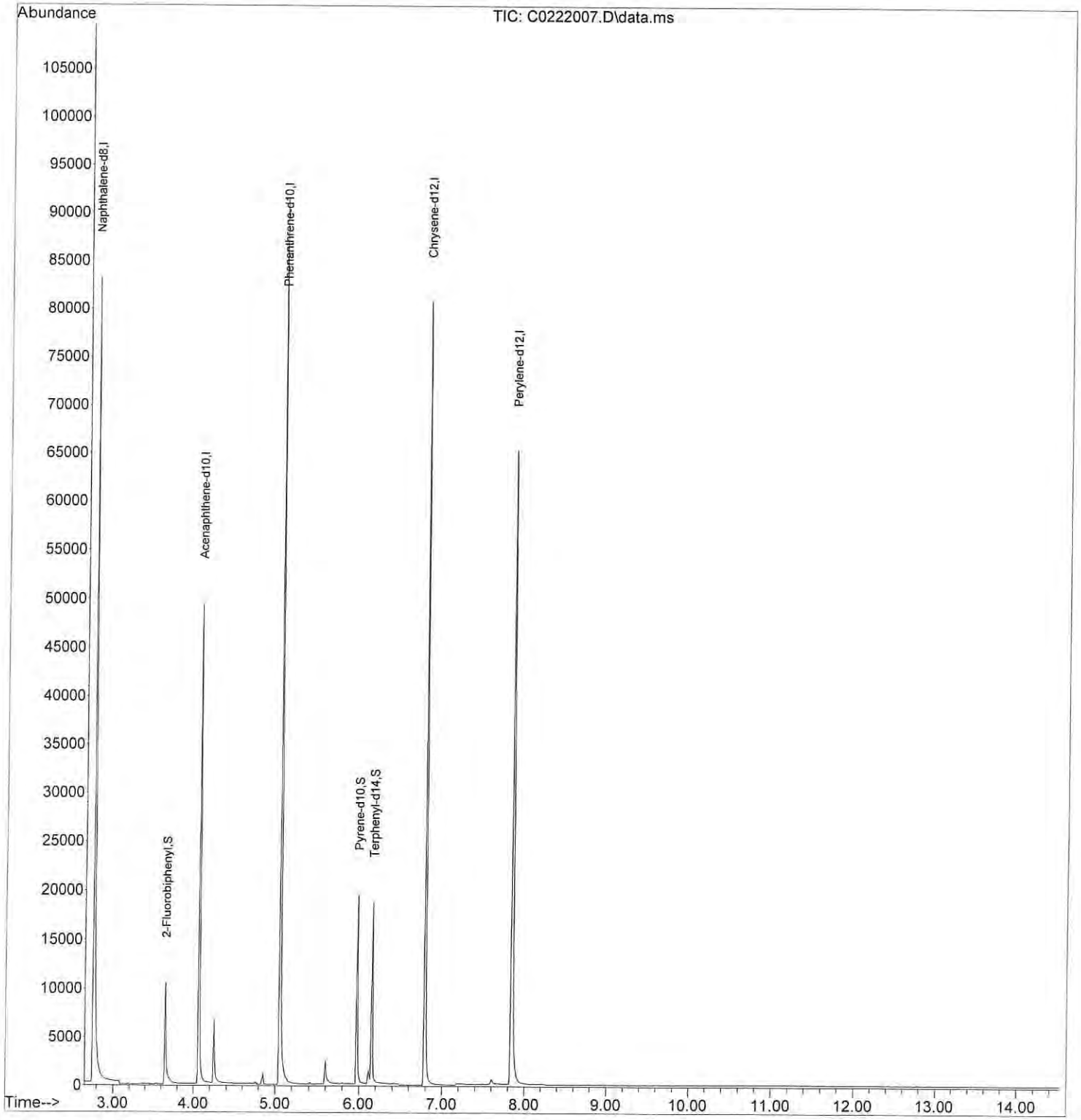
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/28/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240222\
Data File : C0222007.D
Acq On : 22 Feb 2024 11:38 am
Operator : JP
Sample : MB0221W1 RR
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 07:46:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216011.D
Acq On : 16 Feb 2024 2:34 pm
Operator : JP
Sample : SB0216W1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 15:33:28 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.762	136	103997	2000.00	ppb	-0.09
5) Acenaphthene-d10	4.063	164	48798	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.050	188	92162	2000.00	ppb	-0.08
16) Chrysene-d12	6.788	240	78982	2000.00	ppb	-0.14
20) Perylene-d12	7.843	264	82736	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.641	172	29226	663.89	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 66.39%			
10) Pyrene-d10	5.973	212	37710	859.90	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 85.99%			
17) Terphenyl-d14	6.156	244	32689	902.96	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 90.30%			
Target Compounds						Qvalue
2) Naphthalene	2.778	128	20413	298.20	ppb	98
3) 2-Methylnaphthalene	3.339	142	10061	284.03	ppb	96
4) 1-Methylnaphthalene	3.403	142	11426	269.82	ppb	98
7) Acenaphthylene	3.955	152	22706	358.29	ppb	100
8) Acenaphthene	4.078	153	12898	319.21	ppb	100
11) Fluorene	4.440	166	14463	344.17	ppb	100
12) Phenanthrene	5.062	178	22927	363.70	ppb	92
13) Anthracene	5.097	178	22819	370.47	ppb	96
14) Fluoranthene	5.848	202	24114	392.72	ppb	93
15) Pyrene	5.983	202	26771	422.30	ppb	99
18) Benzo[a]anthracene	6.782	228	26147	457.67	ppb	98
19) Chrysene	6.799	228	21190	379.89	ppb	92
21) Benzo[b]fluoranthene	7.553	252	24809	466.80	ppb	87
22) Benzo(j,k)fluoranthene	7.576	252	25299	446.05	ppb	85
23) Benzo[a]pyrene	7.797	252	20953	449.34	ppb	88
24) Indeno(1,2,3-c,d)pyrene	8.692	276	22044m	494.51	ppb	
25) Dibenz[a,h]anthracene	8.738	278	23967	468.03	ppb	89
26) Benzo[g,h,i]perylene	8.885	276	23818	459.68	ppb	84

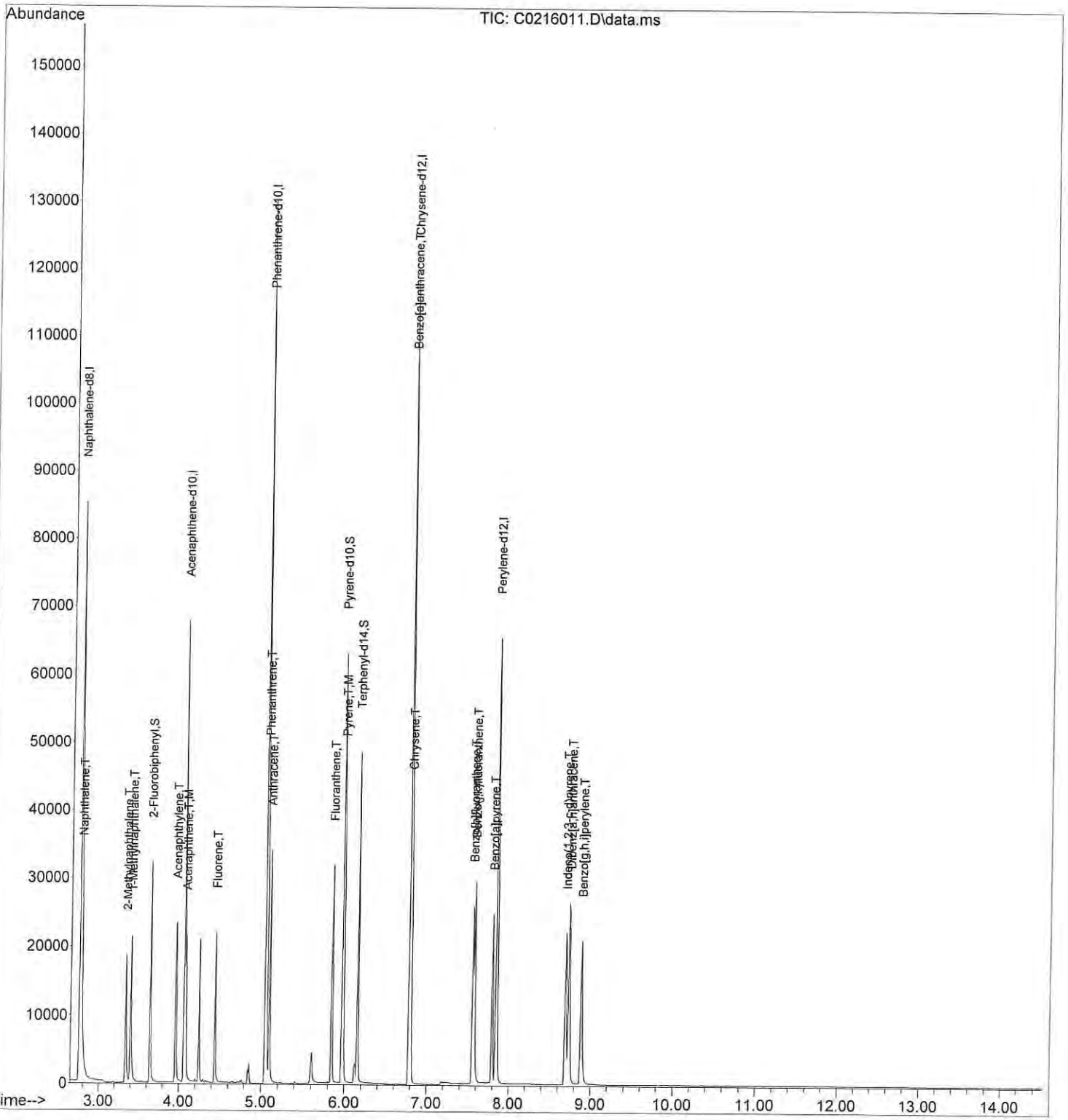
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/20/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216011.D
Acq On : 16 Feb 2024 2:34 pm
Operator : JP
Sample : SB0216W1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 15:33:28 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216010.D
Acq On : 16 Feb 2024 2:12 pm
Operator : JP
Sample : SB0216W1 DUP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 15:32:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.755	136	103561	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.063	164	48397	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.052	188	93608	2000.00	ppb	-0.08
16) Chrysene-d12	6.787	240	80666	2000.00	ppb	-0.14
20) Perylene-d12	7.844	264	84191	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.640	172	26098	597.75	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 59.77%			
10) Pyrene-d10	5.973	212	32361	726.53	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 72.65%			
17) Terphenyl-d14	6.155	244	28812	779.25	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 77.92%			
Target Compounds						Qvalue
2) Naphthalene	2.770	128	18740	274.91	ppb	99
3) 2-Methylnaphthalene	3.338	142	9126	258.72	ppb	94
4) 1-Methylnaphthalene	3.402	142	10420	247.10	ppb	98
7) Acenaphthylene	3.955	152	19782	314.74	ppb	100
8) Acenaphthene	4.079	153	11456	285.87	ppb	100
11) Fluorene	4.441	166	12839	300.80	ppb	100
12) Phenanthrene	5.063	178	20307	317.16	ppb	91
13) Anthracene	5.098	178	19748	315.66	ppb	97
14) Fluoranthene	5.848	202	21814	349.78	ppb	96
15) Pyrene	5.982	202	22368	347.40	ppb	98
18) Benzo[a]anthracene	6.781	228	22772	390.28	ppb	97
19) Chrysene	6.799	228	18842	330.75	ppb	94
21) Benzo[b]fluoranthene	7.553	252	22456	415.22	ppb	85
22) Benzo(j,k)fluoranthene	7.577	252	21205	367.41	ppb	91
23) Benzo[a]pyrene	7.797	252	18364	387.02	ppb	87
24) Indeno(1,2,3-c,d)pyrene	8.691	276	19234m	424.01	ppb	
25) Dibenz[a,h]anthracene	8.738	278	20660	396.47	ppb	87
26) Benzo[g,h,i]perylene	8.884	276	20730	393.16	ppb	83

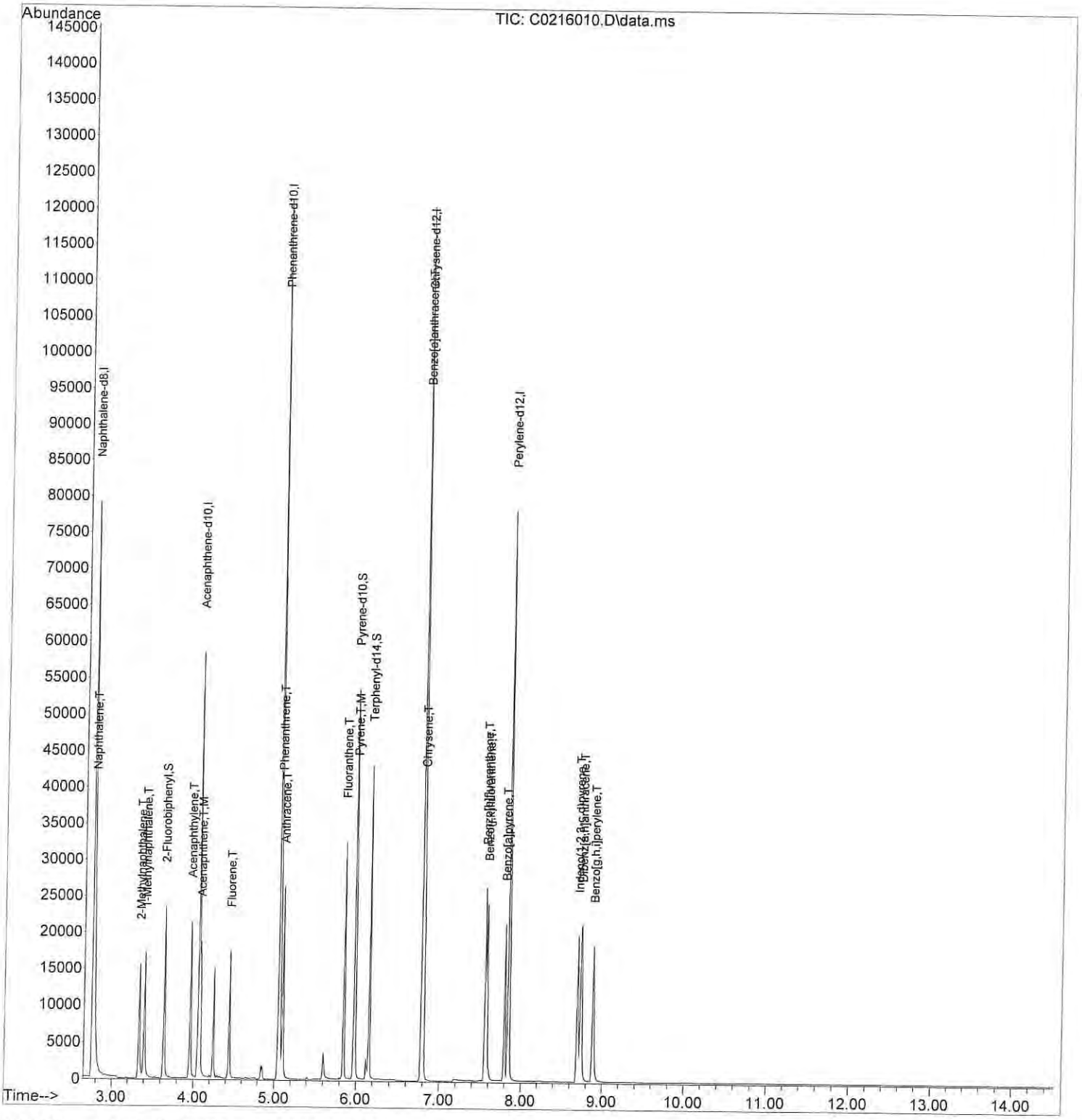
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216010.D
Acq On : 16 Feb 2024 2:12 pm
Operator : JP
Sample : SB0216W1 DUP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 15:32:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221007.D
Acq On : 21 Feb 2024 12:13 pm
Operator : JP
Sample : SB0221W1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 12:29:25 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	2.755	136	103917	2000.00	ppb		-0.10
5) Acenaphthene-d10	4.063	164	50056	2000.00	ppb		-0.08
9) Phenanthrene-d10	5.051	188	97014	2000.00	ppb		-0.08
16) Chrysene-d12	6.788	240	85421	2000.00	ppb		-0.14
20) Perylene-d12	7.849	264	89982	2000.00	ppb		-0.17
System Monitoring Compounds							
6) 2-Fluorobiphenyl	3.641	172	27301	604.58	ppb		-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 60.46%				
10) Pyrene-d10	5.973	212	33208	719.37	ppb		-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 71.94%				
17) Terphenyl-d14	6.156	244	28311	723.08	ppb		-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 72.31%				
Target Compounds							Qvalue
2) Naphthalene	2.770	128	18543	271.09	ppb		99
3) 2-Methylnaphthalene	3.339	142	9286	262.35	ppb		96
4) 1-Methylnaphthalene	3.403	142	10714	253.20	ppb		97
7) Acenaphthylene	3.955	152	20084	308.95	ppb		100
8) Acenaphthene	4.078	153	11703	282.36	ppb		100
11) Fluorene	4.440	166	13162	297.54	ppb		100
12) Phenanthrene	5.063	178	19903	299.94	ppb		94
13) Anthracene	5.097	178	20295	313.01	ppb		98
14) Fluoranthene	5.848	202	20377	315.26	ppb		93
15) Pyrene	5.983	202	21736	325.73	ppb		99
18) Benzo[a]anthracene	6.782	228	18928	306.34	ppb		95
19) Chrysene	6.806	228	19614	325.13	ppb		100
21) Benzo[b]fluoranthene	7.559	252	21972	380.13	ppb		94
22) Benzo(j,k)fluoranthene	7.582	252	18548	300.69	ppb	#	71
23) Benzo[a]pyrene	7.797	252	17315	341.42	ppb		89
24) Indeno(1,2,3-c,d)pyrene	8.693	276	17213m	355.04	ppb		
25) Dibenz[a,h]anthracene	8.739	278	19125	343.40	ppb		88
26) Benzo[g,h,i]perylene	8.886	276	19168	340.14	ppb		84

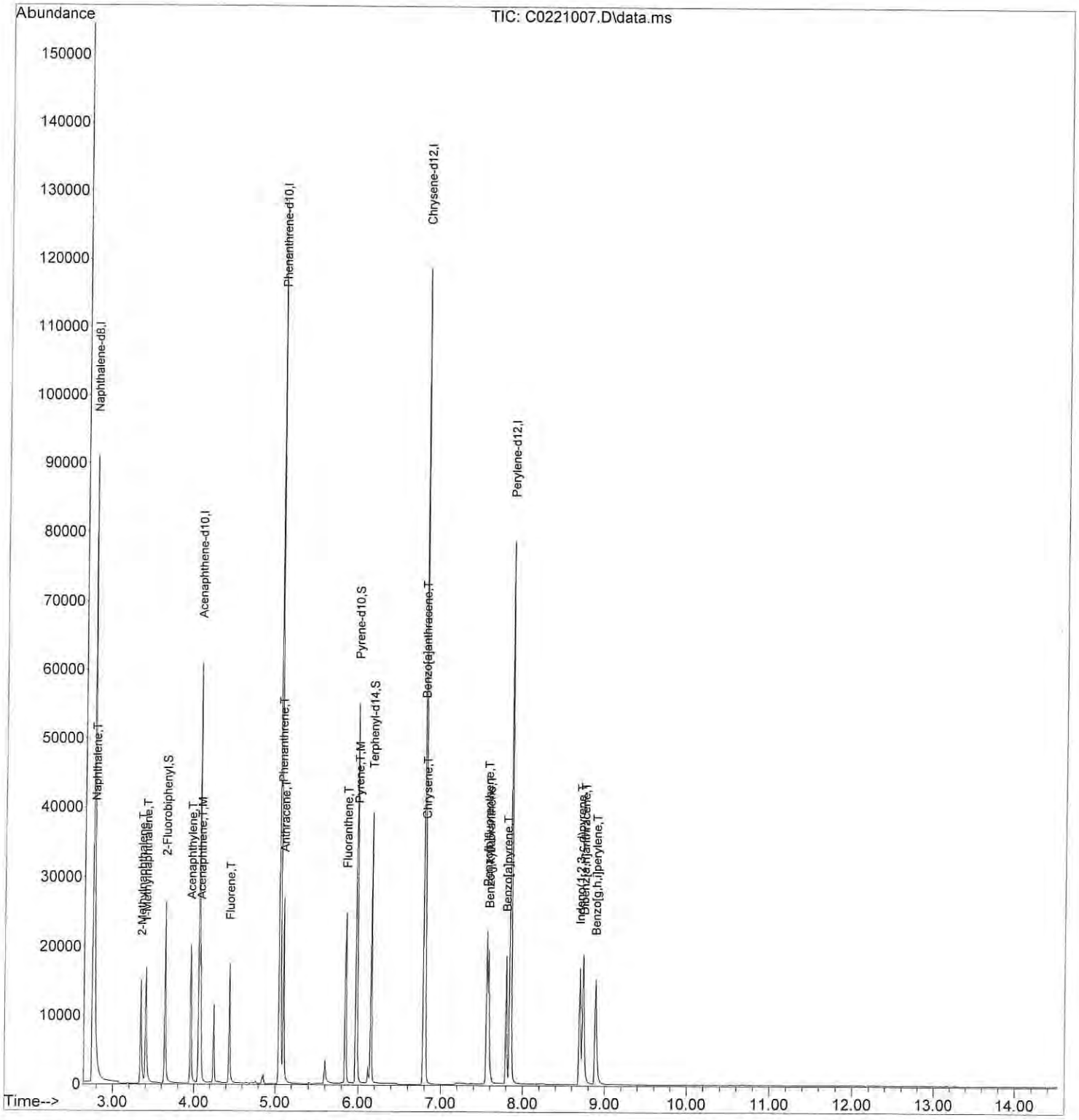
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221007.D
Acq On : 21 Feb 2024 12:13 pm
Operator : JP
Sample : SB0221W1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 21 12:29:25 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221008.D
Acq On : 21 Feb 2024 12:35 pm
Operator : JP
Sample : SB0221W1 DUP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 12:50:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	2.755	136	108677	2000.00	ppb		-0.10
5) Acenaphthene-d10	4.063	164	49746	2000.00	ppb		-0.08
9) Phenanthrene-d10	5.045	188	96356	2000.00	ppb		-0.09
16) Chrysene-d12	6.782	240	84058	2000.00	ppb		-0.15
20) Perylene-d12	7.844	264	89448	2000.00	ppb		-0.18
System Monitoring Compounds							
6) 2-Fluorobiphenyl	3.641	172	30748	685.15	ppb		-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 68.51%				
10) Pyrene-d10	5.974	212	32956	718.78	ppb		-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 71.88%				
17) Terphenyl-d14	6.157	244	28369	736.31	ppb		-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 73.63%				
Target Compounds							Qvalue
2) Naphthalene	2.770	128	21061	294.41	ppb		99
3) 2-Methylnaphthalene	3.340	142	10491	283.41	ppb		96
4) 1-Methylnaphthalene	3.403	142	12050	272.30	ppb		98
7) Acenaphthylene	3.955	152	22086	341.87	ppb		100
8) Acenaphthene	4.079	153	12986	315.26	ppb		100
11) Fluorene	4.441	166	14217	323.59	ppb		100
12) Phenanthrene	5.063	178	21661	328.66	ppb		95
13) Anthracene	5.098	178	21906	340.16	ppb		98
14) Fluoranthene	5.840	202	21905	341.22	ppb		92
15) Pyrene	5.984	202	23385	352.83	ppb		97
18) Benzo[a]anthracene	6.776	228	21469	353.10	ppb		95
19) Chrysene	6.799	228	20796	350.32	ppb		99
21) Benzo[b]fluoranthene	7.553	252	24435	425.26	ppb		95
22) Benzo(j,k)fluoranthene	7.576	252	19764	322.31	ppb	#	71
23) Benzo[a]pyrene	7.791	252	19204	380.93	ppb		89
24) Indeno(1,2,3-c,d)pyrene	8.692	276	20807	431.73	ppb		86
25) Dibenz[a,h]anthracene	8.731	278	22310	402.98	ppb		90
26) Benzo[g,h,i]perylene	8.885	276	22229	396.82	ppb		85

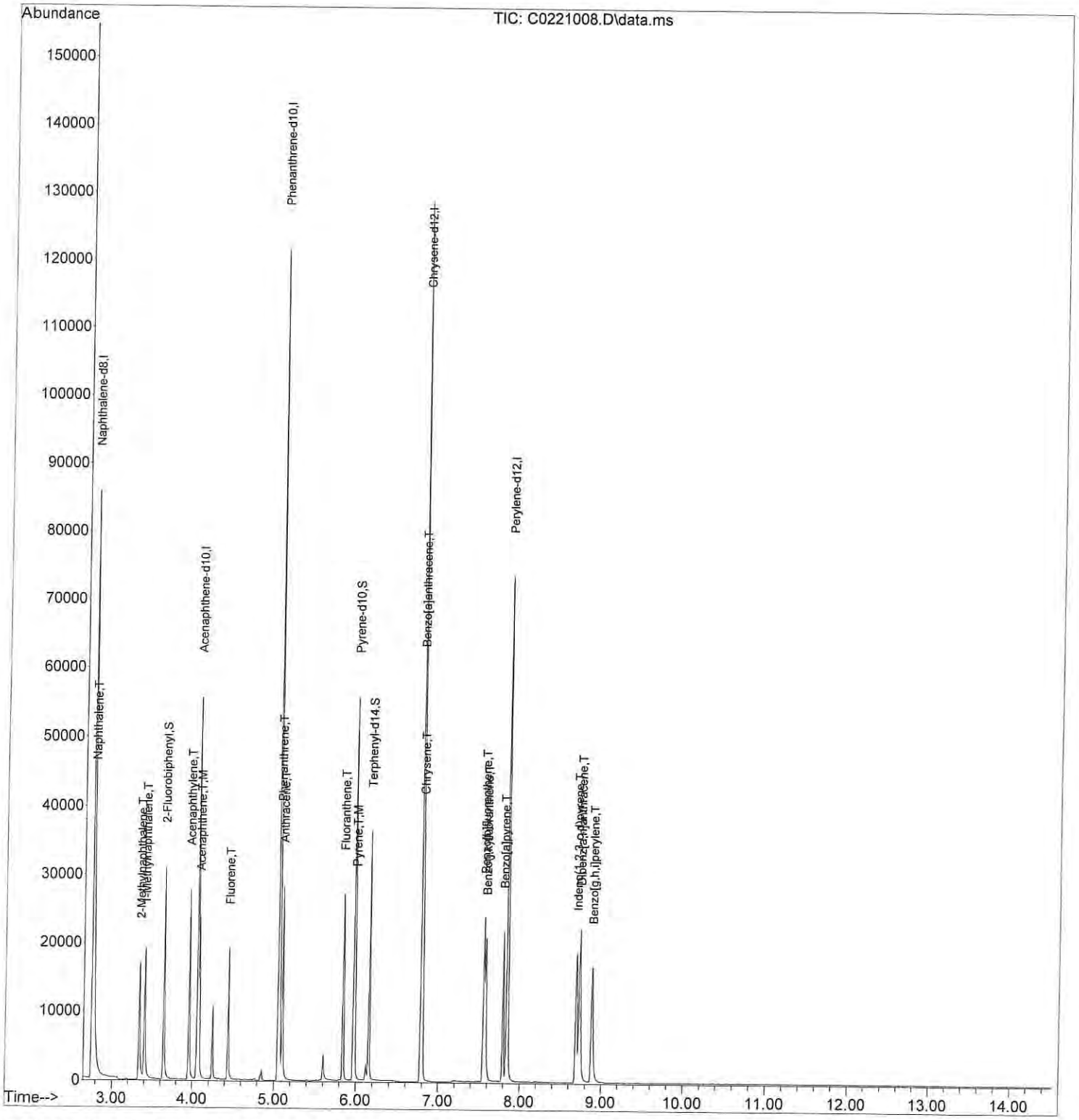
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221008.D
Acq On : 21 Feb 2024 12:35 pm
Operator : JP
Sample : SB0221W1 DUP
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 21 12:50:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Response Factor Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240201.M
Title : PAH'S BY SIMS
Last Update : Wed Mar 06 08:56:36 2024
Response Via : Initial Calibration

Calibration Files
10 =C0201013.D 20 =C0201014.D 50 =C0201015.D 100 =C0201016.D 200 =C0201017.D 500 =C0305001.D 1000=C0201019.D
5000=C0201020.D

		Compound	10	20	50	100	200	500	1000	5000	Avg	%RSD
1)	I	Naphthalene-d8	ISTD									
2)	T	Naphthalene	1.333	1.393	1.333	1.337	1.282	1.328	1.263	1.264	1.316	3.35
3)	T	2-Methylnaphth...	0.664	0.673	0.661	0.677	0.670	0.712	0.685	0.706	0.681	2.77
4)	T	1-Methylnaphth...	0.998	0.921	0.808	0.797	0.739	0.768	0.736	0.748	0.814	11.71
5)	I	Acenaphthene-d10	ISTD									
6)	S	2-Fluorobiphenyl	1.895	1.695	1.661	1.940	1.843	1.848	1.816	1.737	1.804	5.42
7)	T	Acenaphthylene	2.740	2.933	2.594	2.594	2.538	2.574	2.504	2.301	2.597	7.03
8)	T,M	Acenaphthene	1.878	1.835	1.667	1.642	1.615	1.603	1.579	1.430	1.656	8.63
9)	I	Phenanthrene-d10	ISTD									
10)	S	Pyrene-d10	1.097	0.951	0.930	0.947	0.961	0.905	0.930	0.893	0.952	6.62
11)	T	Fluorene	0.984	1.045	0.924	0.897	0.873	0.857	0.852	0.863	0.912	7.62
12)	T	Phenanthrene	1.656	1.622	1.369	1.339	1.296	1.261	1.236	1.165	1.368	13.06
13)	T	Anthracene	1.550	1.561	1.305	1.292	1.260	1.247	1.269	1.209	1.337	10.34
14)	T	Fluoranthene	1.476	1.523	1.320	1.293	1.285	1.250	1.231	1.282	1.332	8.05
15)	T,M	Pyrene	1.494	1.556	1.355	1.381	1.352	1.334	1.362	1.171	1.376	8.31
16)	I	Chrysene-d12	ISTD									
17)	S	Terphenyl-d14	1.069	0.974	0.869	0.922	0.913	0.898	0.872	0.817	0.917	8.33
18)	T	Benzo[a]anthra...	2.019	1.735	1.427	1.330	1.325	1.263	1.254	1.219	1.447	19.59
19)	T	Chrysene	1.554	1.618	1.458	1.468	1.390	1.350	1.337	1.125	1.412	10.72
20)	I	Perylene-d12	ISTD									
21)	T	Benzo[b]fluora...	1.386	1.337	1.220	1.312	1.230	1.301	1.250	1.241	1.285	4.58
22)	T	Benzo(j,k)fluo...	1.397	1.651	1.417	1.277	1.354	1.239	1.332	1.302	1.371	9.30
23)	T	Benzo[a]pyrene	1.200	1.240	1.103	1.075	1.091	1.080	1.109	1.119	1.127	5.34
24)	T	Indeno(1,2,3-c...	1.124	1.118	0.989	0.999	1.067	1.073	1.107	1.144	1.078	5.35
25)	T	Dibenz[a,h]ant...	1.191	1.364	1.238	1.213	1.193	1.216	1.239	1.249	1.238	4.46
26)	T	Benzo[g,h,i]pe...	1.335	1.400	1.234	1.201	1.205	1.205	1.222	1.218	1.253	5.88

(#) = Out of Range

Compound List Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240201.M
Title : PAH'S BY SIMS
Last Update : Wed Mar 06 08:56:36 2024
Response Via : Initial Calibration

Total Cpnds : 26

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	2.599	1.000	A	0	A	R
2	T	Naphthalene	128	2.614	1.006	A	1	A	R
3	T	2-Methylnaphthalene	142	3.195	1.229	A	1	A	R
4	T	1-Methylnaphthalene	142	3.259	1.254	A	1	A	R
5	I	Acenaphthene-d10	164	3.922	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	3.503	0.893	A	0	A	R
7	T	Acenaphthylene	152	3.822	0.974	A	0	A	R
8	T	Acenaphthene	153	3.945	1.006	A	0	A	R
9	I	Phenanthrene-d10	188	4.913	1.000	A	0	A	R
10	S	Pyrene-d10	212	5.832	1.187	A	0	A	R
11	T	Fluorene	166	4.308	0.877	A	0	A	R
12	T	Phenanthrene	178	4.925	1.002	A	1	A	R
13	T	Anthracene	178	4.959	1.009	A	1	A	R
14	T	Fluoranthene	202	5.707	1.162	A	1	A	R
15	T	Pyrene	202	5.832	1.187	A	1	A	R
16	I	Chrysene-d12	240	6.660	1.000	A	0	A	R
17	S	Terphenyl-d14	244	6.015	0.903	A	0	A	R
18	T	Benzo[a]anthracene	228	6.648	0.998	A	1	A	R
19	T	Chrysene	228	6.671	1.002	A	1	A	R
20	I	Perylene-d12	264	7.660	1.000	A	0	A	R
21	T	Benzo[b]fluoranthene	252	7.387	0.964	A	1	A	R
22	T	Benzo(j,k)fluoranthene	252	7.404	0.967	A	1	A	R
23	T	Benzo[a]pyrene	252	7.613	0.994	A	1	A	R
24	T	Indeno(1,2,3-c,d)pyrene	276	8.476	1.107	A	1	A	R
25	T	Dibenz[a,h]anthracene	278	8.515	1.112	A	1	A	R
26	T	Benzo[g,h,i]perylene	276	8.662	1.131	A	1	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CS240201.M Thu Aug 22 10:53:07 2024

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201013.D
Acq On : 1 Feb 2024 2:10 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-141-08
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 02 09:41:19 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.943	136	119893	2000.00	ppb	0.00
5) Acenaphthene-d10	4.220	164	58907	2000.00	ppb	0.00
9) Phenanthrene-d10	5.210	188	111376	2000.00	ppb	0.00
16) Chrysene-d12	6.965	240	98450	2000.00	ppb	0.00
20) Perylene-d12	8.100	264	105479	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.799	172	558	10.50	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.05%#			
10) Pyrene-d10	6.140	212	611	11.53	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 1.15%#			
17) Terphenyl-d14	6.322	244	526	11.66	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 1.17%#			
Target Compounds						Qvalue
2) Naphthalene	2.958	128	799	10.12	ppb	95
3) 2-Methylnaphthalene	3.509	142	398	9.75	ppb	97
4) 1-Methylnaphthalene	3.567	142	529	10.84	ppb	90
7) Acenaphthylene	4.120	152	807	10.55	ppb	100
8) Acenaphthene	4.236	153	553	11.34	ppb	100
11) Fluorene	4.605	166	548	10.79	ppb	100
12) Phenanthrene	5.221	178	922	12.10	ppb	95
13) Anthracene	5.262	178	863	11.59	ppb	96
14) Fluoranthene	6.015	202	822	11.08	ppb	89
15) Pyrene	6.159	202	832	10.86	ppb	97
18) Benzo[a]anthracene	6.960	228	994	13.96	ppb	97
19) Chrysene	6.983	228	765	11.00	ppb	96
21) Benzo[b]fluoranthene	7.798	252	731	10.79	ppb	94
22) Benzo(j,k)fluoranthene	7.821	252	737	10.19	ppb	89
23) Benzo[a]pyrene	8.048	252	633	10.65	ppb	87
24) Indeno(1,2,3-c,d)pyrene	8.998	276	590m	10.38	ppb	
25) Dibenz[a,h]anthracene	9.036	278	680	10.42	ppb	95
26) Benzo[g,h,i]perylene	9.198	276	704	10.66	ppb	86

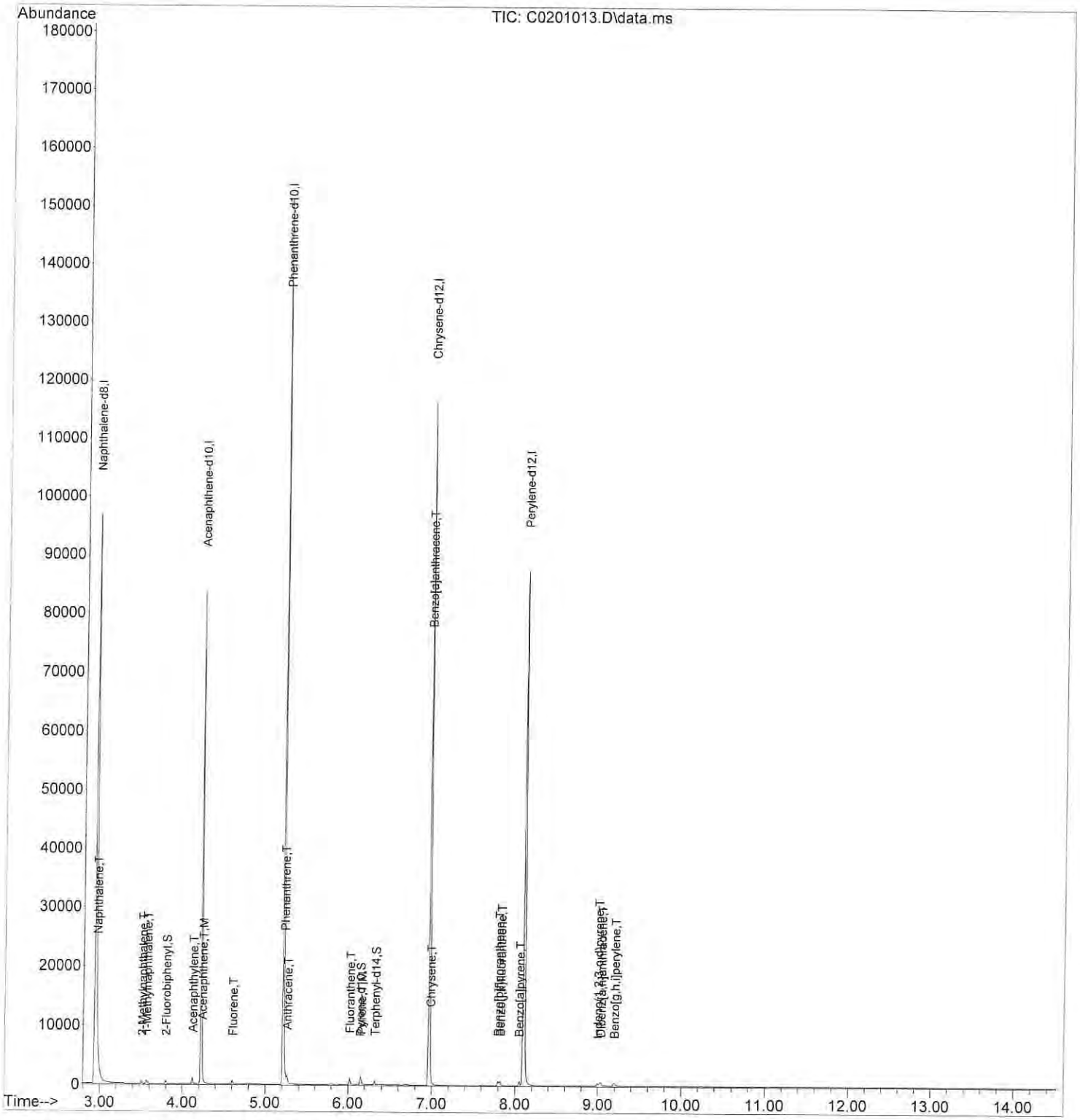
JP 8/23/24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201013.D
Acq On : 1 Feb 2024 2:10 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-141-08
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 02 09:41:19 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201014.D
Acq On : 1 Feb 2024 2:32 pm
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-141-07
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 02 09:42:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.943	136	115401	2000.00	ppb	0.00
5) Acenaphthene-d10	4.214	164	53731	2000.00	ppb	0.00
9) Phenanthrene-d10	5.211	188	103824	2000.00	ppb	0.00
16) Chrysene-d12	6.960	240	91104	2000.00	ppb	0.00
20) Perylene-d12	8.093	264	97233	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.798	172	911	18.79	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.88%#			
10) Pyrene-d10	6.139	212	987	19.98	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 2.00%#			
17) Terphenyl-d14	6.322	244	887	21.24	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 2.12%#			
Target Compounds						Qvalue
2) Naphthalene	2.958	128	1607	21.16	ppb	95
3) 2-Methylnaphthalene	3.502	142	777	19.77	ppb	97
4) 1-Methylnaphthalene	3.566	142	1018	21.66	ppb	92
7) Acenaphthylene	4.122	152	1576	22.59	ppb	100
8) Acenaphthene	4.237	153	986	22.16	ppb	100
11) Fluorene	4.599	166	1085	22.92	ppb	100
12) Phenanthrene	5.222	178	1684	23.71	ppb	100
13) Anthracene	5.263	178	1621	23.36	ppb	99
14) Fluoranthene	6.014	202	1581	22.86	ppb	92
15) Pyrene	6.149	202	1616	22.63	ppb	97
18) Benzo[a]anthracene	6.954	228	1581	23.99	ppb	99
19) Chrysene	6.978	228	1474	22.91	ppb	100
21) Benzo[b]fluoranthene	7.797	252	1300	20.81	ppb	88
22) Benzo(j,k)fluoranthene	7.814	252	1561m	23.42	ppb	
23) Benzo[a]pyrene	8.047	252	1206	22.01	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.991	276	1081m	20.63	ppb	
25) Dibenz[a,h]anthracene	9.030	278	1326	22.03	ppb	87
26) Benzo[g,h,i]perylene	9.192	276	1361	22.35	ppb	87

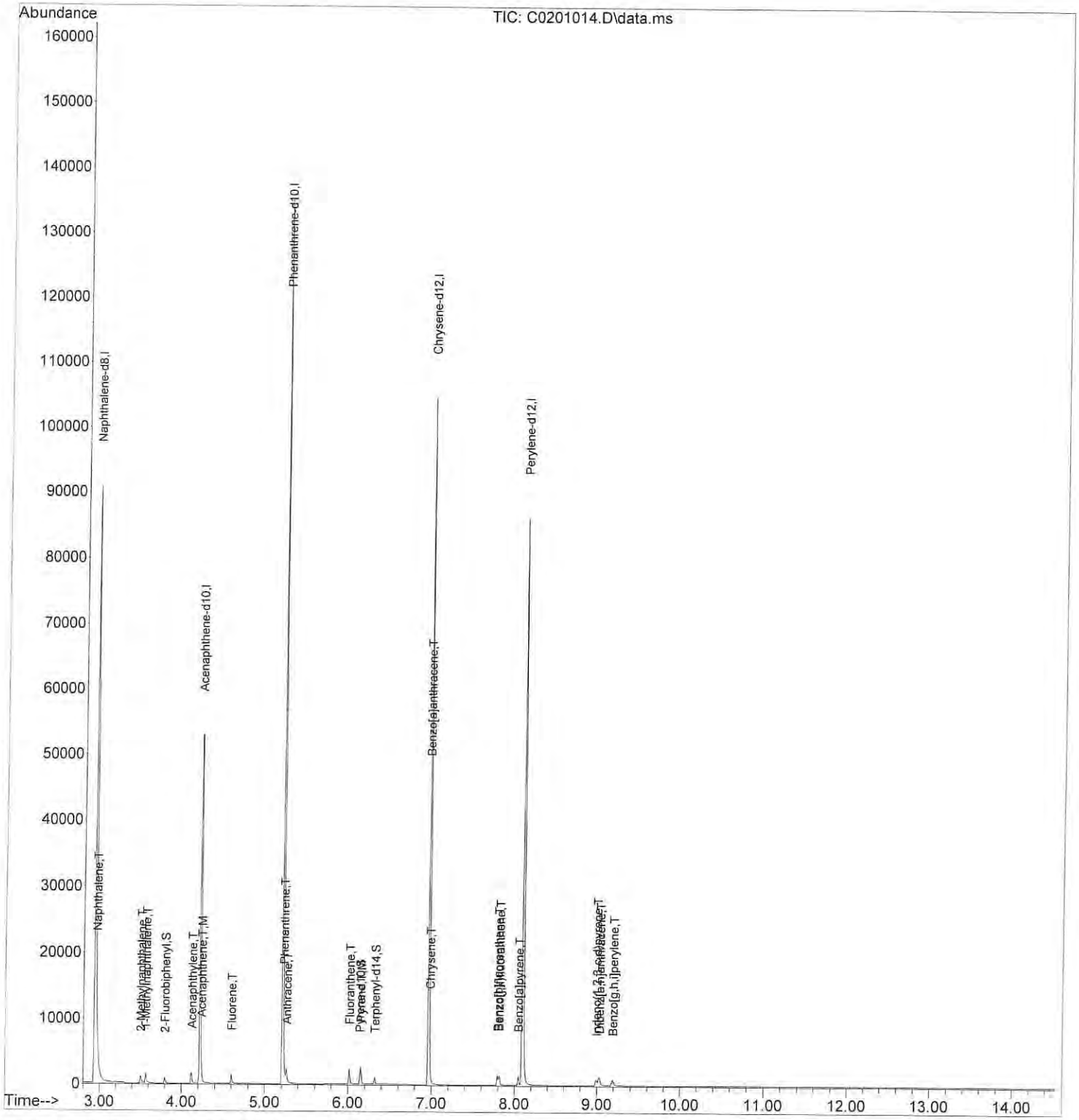
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/12/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201014.D
Acq On : 1 Feb 2024 2:32 pm
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-141-07
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 02 09:42:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201015.D
Acq On : 1 Feb 2024 2:54 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-141-06
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 02 09:43:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.936	136	115805	2000.00	ppb	0.00
5) Acenaphthene-d10	4.221	164	55372	2000.00	ppb	0.00
9) Phenanthrene-d10	5.211	188	109053	2000.00	ppb	0.00
16) Chrysene-d12	6.960	240	95998	2000.00	ppb	0.00
20) Perylene-d12	8.098	264	102981	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.798	172	2299	46.02	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	4.60%#		
10) Pyrene-d10	6.139	212	2536	48.87	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	4.89%#		
17) Terphenyl-d14	6.322	244	2086	47.41	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	4.74%#		
Target Compounds						Qvalue
2) Naphthalene	2.951	128	3858	50.61	ppb	100
3) 2-Methylnaphthalene	3.502	142	1915	48.55	ppb	99
4) 1-Methylnaphthalene	3.566	142	2344	49.71	ppb	95
7) Acenaphthylene	4.121	152	3591	49.94	ppb	100
8) Acenaphthene	4.237	153	2307	50.32	ppb	100
11) Fluorene	4.599	166	2519	50.66	ppb	100
12) Phenanthrene	5.222	178	3733	50.05	ppb	98
13) Anthracene	5.263	178	3557	48.80	ppb	99
14) Fluoranthene	6.014	202	3599	49.53	ppb	94
15) Pyrene	6.149	202	3693	49.23	ppb	97
18) Benzo[a]anthracene	6.955	228	3424	49.31	ppb	100
19) Chrysene	6.978	228	3500	51.63	ppb	98
21) Benzo[b]fluoranthene	7.791	252	3141	47.48	ppb	86
22) Benzo(j,k)fluoranthene	7.814	252	3648m	51.67	ppb	
23) Benzo[a]pyrene	8.046	252	2839	48.91	ppb	90
24) Indeno(1,2,3-c,d)pyrene	8.983	276	2547m	45.90	ppb	
25) Dibenz[a,h]anthracene	9.022	278	3188	50.02	ppb	92
26) Benzo[g,h,i]perylene	9.184	276	3176	49.25	ppb	86

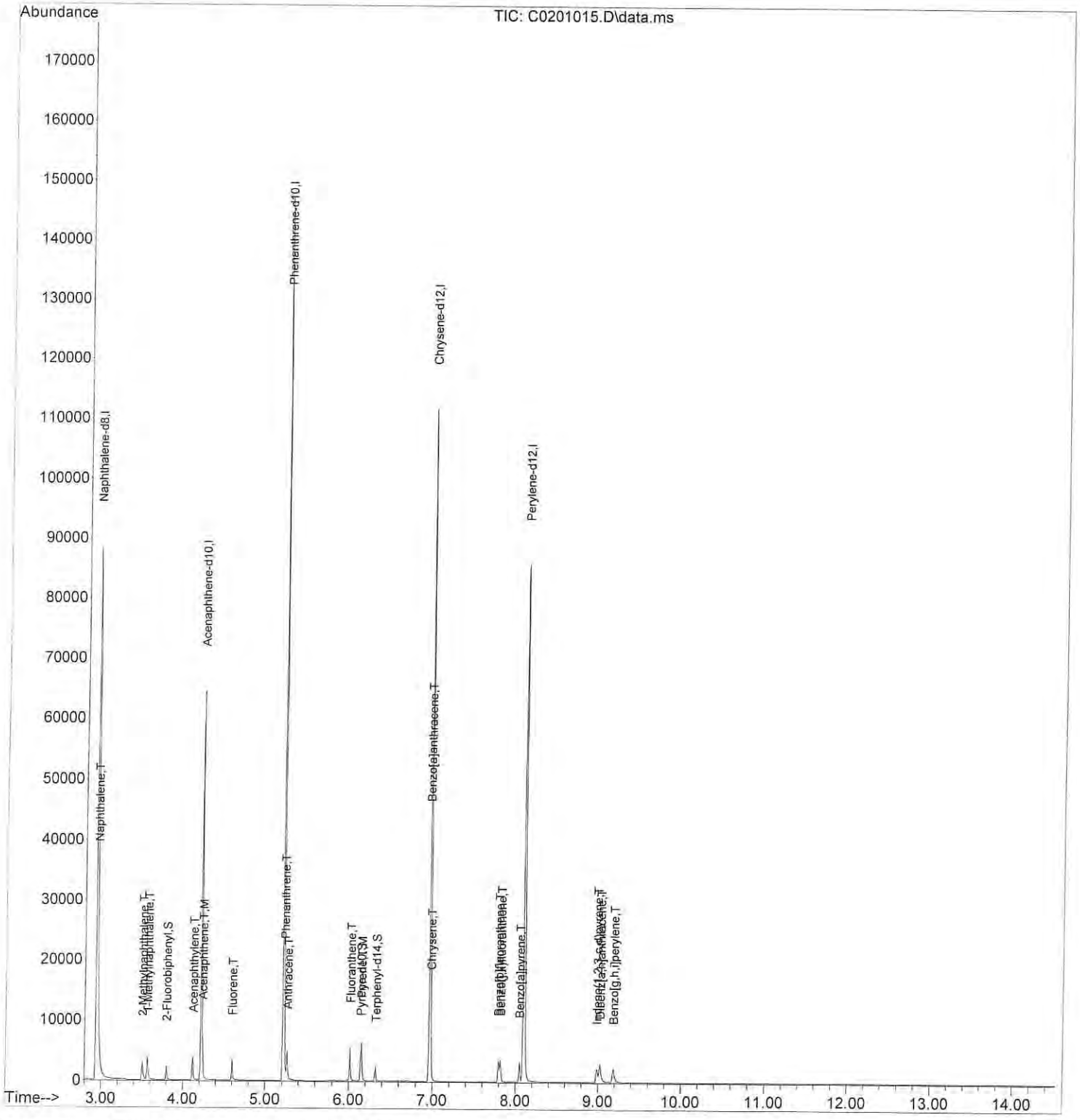
(#) = qualifier out of range (m) = manual integration (+) = signals summed

VD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201015.D
Acq On : 1 Feb 2024 2:54 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-141-06
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 02 09:43:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201016.D
Acq On : 1 Feb 2024 3:16 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-141-05
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 09:44:52 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	2.943	136	113327	2000.00 ppb	0.00
5) Acenaphthene-d10	4.220	164	54724	2000.00 ppb	0.00
9) Phenanthrene-d10	5.210	188	105436	2000.00 ppb	0.00
16) Chrysene-d12	6.966	240	92697	2000.00 ppb	0.00
20) Perylene-d12	8.094	264	99727	2000.00 ppb	0.00
System Monitoring Compounds					
6) 2-Fluorobiphenyl	3.799	172	5308	107.52 ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 10.75%#		
10) Pyrene-d10	6.140	212	4990	99.46 ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 9.95%#		
17) Terphenyl-d14	6.322	244	4274	100.59 ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 10.06%#		
Target Compounds					Qvalue
2) Naphthalene	2.958	128	7575	101.55 ppb	99
3) 2-Methylnaphthalene	3.503	142	3836	99.38 ppb	98
4) 1-Methylnaphthalene	3.567	142	4443	96.28 ppb	100
7) Acenaphthylene	4.120	152	7099	99.89 ppb	100
8) Acenaphthene	4.236	153	4493	99.15 ppb	100
11) Fluorene	4.598	166	4730	98.39 ppb	100
12) Phenanthrene	5.221	178	7058	97.87 ppb	98
13) Anthracene	5.262	178	6813	96.68 ppb	97
14) Fluoranthene	6.015	202	6817	97.04 ppb	94
15) Pyrene	6.149	202	7280	100.38 ppb	100
18) Benzo[a]anthracene	6.954	228	6166	91.96 ppb	98
19) Chrysene	6.977	228	6804	103.93 ppb	98
21) Benzo[b]fluoranthene	7.792	252	6542	102.12 ppb	87
22) Benzo(j,k)fluoranthene	7.815	252	6367	93.13 ppb	93
23) Benzo[a]pyrene	8.048	252	5358	95.33 ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.982	276	4961m	92.33 ppb	
25) Dibenz[a,h]anthracene	9.021	278	6047	97.97 ppb	92
26) Benzo[g,h,i]perylene	9.183	276	5990	95.91 ppb	86

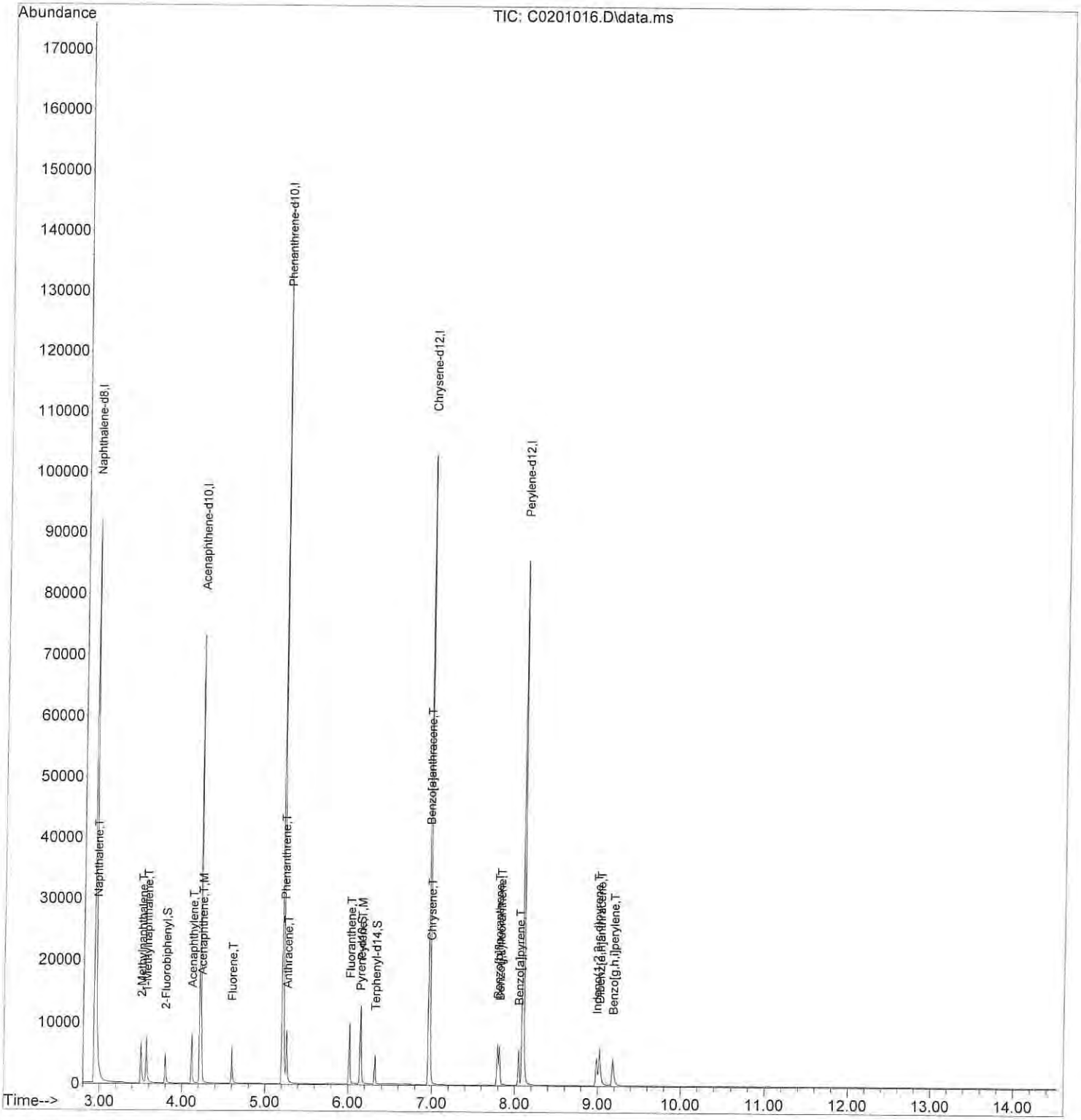
(#) = qualifier out of range (m) = manual integration (+) = signals summed

UD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201016.D
Acq On : 1 Feb 2024 3:16 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-141-05
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 02 09:44:52 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201017.D
Acq On : 1 Feb 2024 3:38 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-141-04
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 02 09:45:22 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.943	136	117640	2000.00	ppb	0.00
5) Acenaphthene-d10	4.220	164	55244	2000.00	ppb	0.00
9) Phenanthrene-d10	5.209	188	106287	2000.00	ppb	0.00
16) Chrysene-d12	6.961	240	93585	2000.00	ppb	0.00
20) Perylene-d12	8.093	264	101068	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.799	172	10181	204.28	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 20.43%#			
10) Pyrene-d10	6.139	212	10210	201.88	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 20.19%#			
17) Terphenyl-d14	6.312	244	8540	199.09	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 19.91%#			
Target Compounds						Qvalue
2) Naphthalene	2.951	128	15080	194.74	ppb	99
3) 2-Methylnaphthalene	3.503	142	7887	196.83	ppb	98
4) 1-Methylnaphthalene	3.567	142	8716	181.96	ppb	97
7) Acenaphthylene	4.120	152	14023	195.46	ppb	100
8) Acenaphthene	4.236	153	8921	195.02	ppb	100
11) Fluorene	4.598	166	9283	191.54	ppb	100
12) Phenanthrene	5.221	178	13778	189.52	ppb	98
13) Anthracene	5.256	178	13391	188.51	ppb	97
14) Fluoranthene	6.014	202	13655	192.83	ppb	94
15) Pyrene	6.149	202	14375	196.62	ppb	100
18) Benzo[a]anthracene	6.955	228	12399	183.16	ppb	95
19) Chrysene	6.978	228	13010	196.85	ppb	96
21) Benzo[b]fluoranthene	7.786	252	12436	191.55	ppb	89
22) Benzo(j,k)fluoranthene	7.809	252	13683	197.49	ppb	92
23) Benzo[a]pyrene	8.047	252	11025	193.55	ppb	91
24) Indeno(1,2,3-c,d)pyrene	8.982	276	10782	198.00	ppb	87
25) Dibenz[a,h]anthracene	9.020	278	12058	192.76	ppb	91
26) Benzo[g,h,i]perylene	9.175	276	12177	192.38	ppb	86

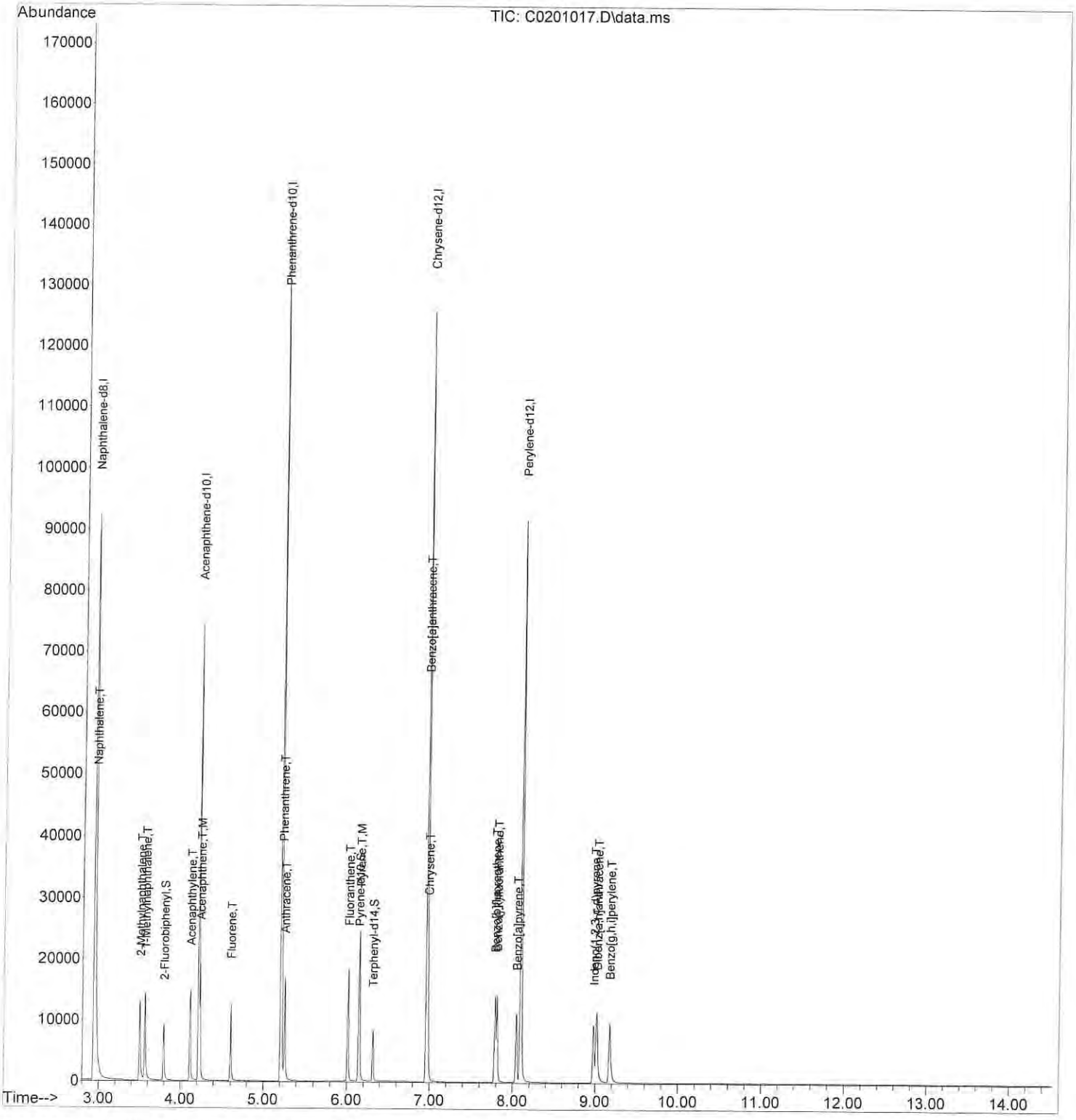
JP 8/23/24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201017.D
Acq On : 1 Feb 2024 3:38 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-141-04
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 02 09:45:22 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201018.D
Acq On : 1 Feb 2024 3:59 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-141-03
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 02 09:45:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.943	136	113498	2000.00	ppb	0.00
5) Acenaphthene-d10	4.221	164	54985	2000.00	ppb	0.00
9) Phenanthrene-d10	5.210	188	107872	2000.00	ppb	0.00
16) Chrysene-d12	6.960	240	96261	2000.00	ppb	0.00
20) Perylene-d12	8.094	264	103222	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.794	172	25401	512.08	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.21%			
10) Pyrene-d10	6.140	212	24399	475.34	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.53%			
17) Terphenyl-d14	6.313	244	21621	490.03	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 49.00%			
Target Compounds						Qvalue
2) Naphthalene	2.951	128	37670	504.23	ppb	99
3) 2-Methylnaphthalene	3.498	142	20209	522.76	ppb	97
4) 1-Methylnaphthalene	3.561	142	22096	478.11	ppb	98
7) Acenaphthylene	4.113	152	35382	495.49	ppb	100
8) Acenaphthene	4.236	153	22041	484.11	ppb	100
11) Fluorene	4.598	166	23104	469.72	ppb	100
12) Phenanthrene	5.222	178	33998	460.78	ppb	98
13) Anthracene	5.256	178	33642	466.63	ppb	97
14) Fluoranthene	6.006	202	33710	469.05	ppb	91
15) Pyrene	6.150	202	35963	484.68	ppb	99
18) Benzo[a]anthracene	6.954	228	30406	436.69	ppb	96
19) Chrysene	6.978	228	32478	477.75	ppb	99
21) Benzo[b]fluoranthene	7.786	252	33570	506.28	ppb	87
22) Benzo(j,k)fluoranthene	7.810	252	31983	451.98	ppb	93
23) Benzo[a]pyrene	8.042	252	27881	479.25	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.975	276	27683	497.76	ppb	88
25) Dibenz[a,h]anthracene	9.014	278	31392	491.36	ppb	91
26) Benzo[g,h,i]perylene	9.175	276	31102	481.12	ppb	86

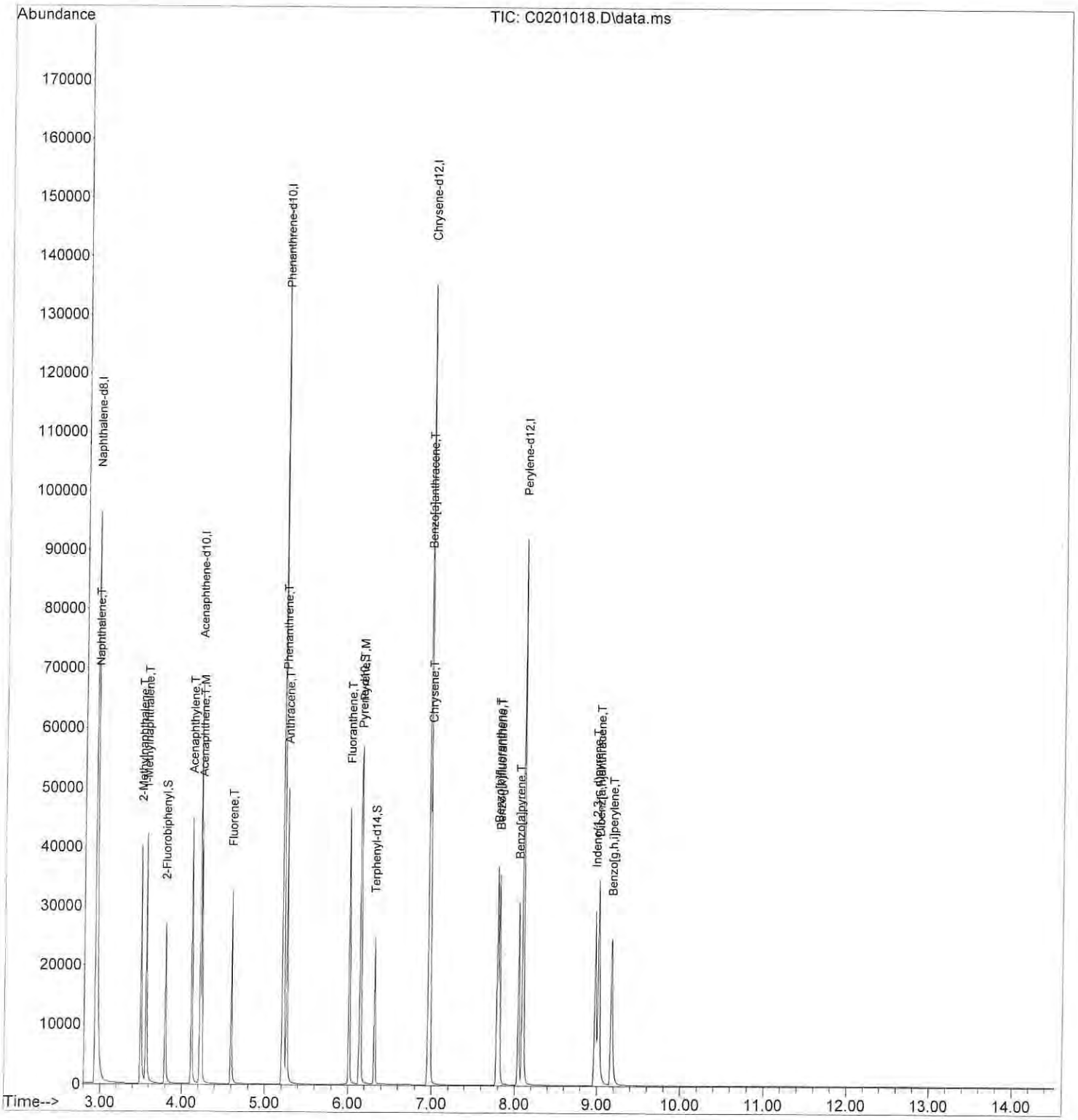
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201018.D
Acq On : 1 Feb 2024 3:59 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-141-03
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 02 09:45:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201019.D
Acq On : 1 Feb 2024 4:21 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-141-02
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 02 09:46:27 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.942	136	118947	2000.00	ppb	0.00
5) Acenaphthene-d10	4.221	164	56109	2000.00	ppb	0.00
9) Phenanthrene-d10	5.211	188	107192	2000.00	ppb	0.00
16) Chrysene-d12	6.966	240	97228	2000.00	ppb	0.00
20) Perylene-d12	8.099	264	103344	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.792	172	50943	1006.42	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 100.64%#			
10) Pyrene-d10	6.139	212	49849	977.32	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 97.73%			
17) Terphenyl-d14	6.312	244	42382	951.01	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 95.10%#			
Target Compounds						Qvalue
2) Naphthalene	2.950	128	75132	959.60	ppb	99
3) 2-Methylnaphthalene	3.496	142	40745	1005.69	ppb	96
4) 1-Methylnaphthalene	3.566	142	44022	908.91	ppb	97
7) Acenaphthylene	4.113	152	70243	963.98	ppb	100
8) Acenaphthene	4.237	153	44289	953.28	ppb	100
11) Fluorene	4.599	166	45653	934.05	ppb	100
12) Phenanthrene	5.222	178	66258	903.69	ppb	96
13) Anthracene	5.257	178	68037	949.70	ppb	97
14) Fluoranthene	6.014	202	65967	923.70	ppb	91
15) Pyrene	6.149	202	73003	990.12	ppb	99
18) Benzo[a]anthracene	6.954	228	60954	866.71	ppb	96
19) Chrysene	6.978	228	64982	946.37	ppb	99
21) Benzo[b]fluoranthene	7.785	252	64597	973.06	ppb	87
22) Benzo(j,k)fluoranthene	7.808	252	68818	971.39	ppb	91
23) Benzo[a]pyrene	8.041	252	57319	984.10	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.975	276	57198	1027.24	ppb	87
25) Dibenz[a,h]anthracene	9.014	278	64002	1000.60	ppb	91
26) Benzo[g,h,i]perylene	9.168	276	63162	975.91	ppb	86

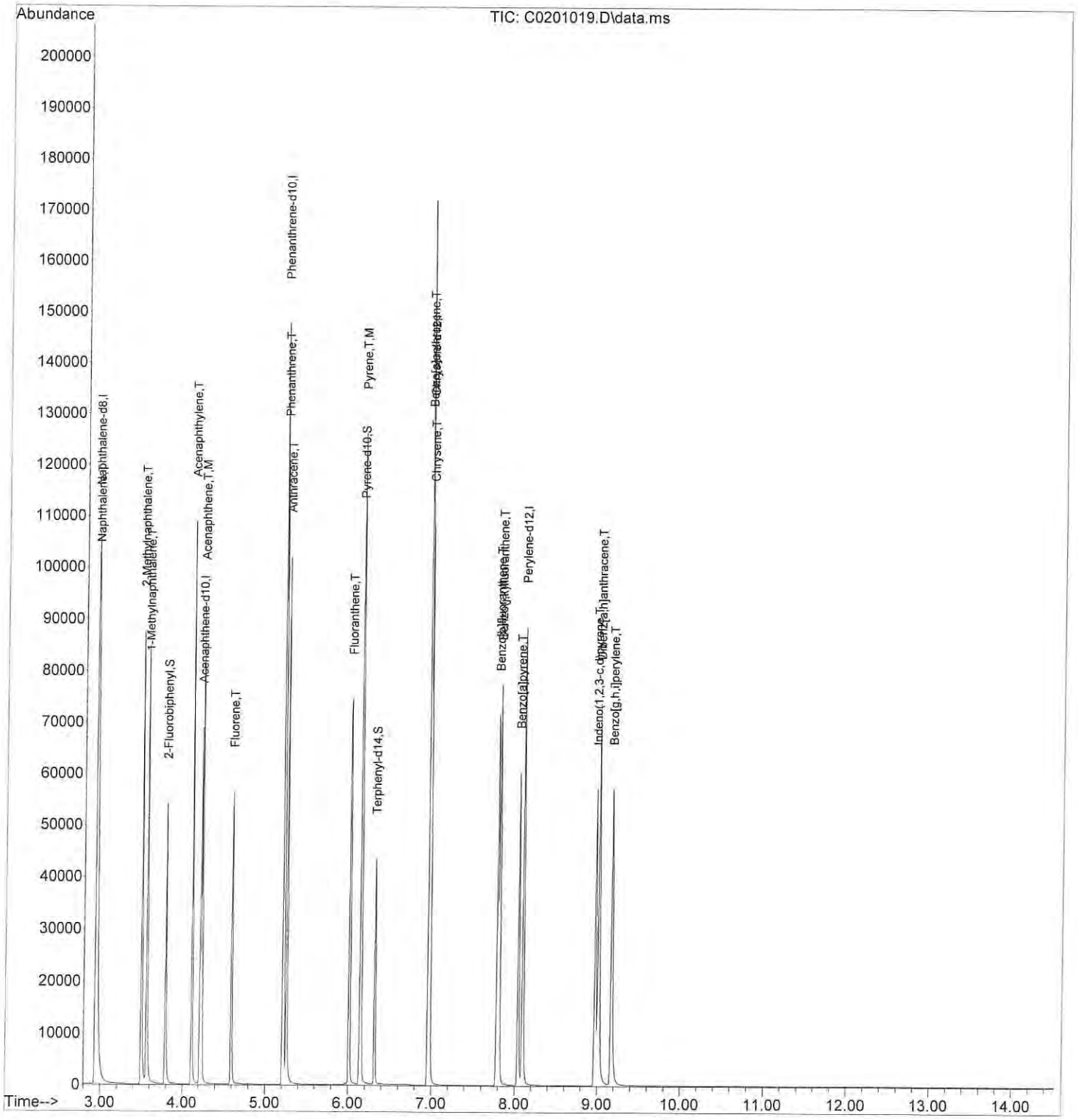
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201019.D
Acq On : 1 Feb 2024 4:21 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-141-02
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 02 09:46:27 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201020.D
Acq On : 1 Feb 2024 4:43 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-141-01
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 02 09:47:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.942	136	118633	2000.00	ppb	0.00
5) Acenaphthene-d10	4.221	164	59171	2000.00	ppb	0.00
9) Phenanthrene-d10	5.211	188	109874	2000.00	ppb	0.00
16) Chrysene-d12	6.966	240	105360	2000.00	ppb	0.00
20) Perylene-d12	8.099	264	106359	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.792	172	256932	4813.24	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 481.32%#			
10) Pyrene-d10	6.139	212	245397	4693.72	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 469.37%#			
17) Terphenyl-d14	6.322	244	215315	4458.55	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 445.85%#			
Target Compounds						Qvalue
2) Naphthalene	2.957	128	374949	4801.57	ppb	98
3) 2-Methylnaphthalene	3.496	142	209491	5184.44	ppb	95
4) 1-Methylnaphthalene	3.566	142	221950	4594.67	ppb	96
7) Acenaphthylene	4.113	152	340418	4429.96	ppb	100
8) Acenaphthene	4.237	153	211579	4318.36	ppb	100
11) Fluorene	4.599	166	237154	4733.67	ppb	100
12) Phenanthrene	5.222	178	320024	4258.26	ppb	93
13) Anthracene	5.257	178	331976	4520.80	ppb	94
14) Fluoranthene	6.014	202	352231	4811.71	ppb	94
15) Pyrene	6.149	202	321754	4257.35	ppb	91
18) Benzo[a]anthracene	6.961	228	321190	4214.51	ppb	97
19) Chrysene	6.984	228	296237	3981.29	ppb	91
21) Benzo[b]fluoranthene	7.791	252	330084	4831.30	ppb	86
22) Benzo(j,k)fluoranthene	7.820	252	346149	4747.49	ppb	88
23) Benzo[a]pyrene	8.047	252	297604	4964.69	ppb	86
24) Indeno(1,2,3-c,d)pyrene	8.983	276	304148	5307.46	ppb	85
25) Dibenz[a,h]anthracene	9.029	278	332212	5046.52	ppb	89
26) Benzo[g,h,i]perylene	9.183	276	323951	4863.46	ppb	84

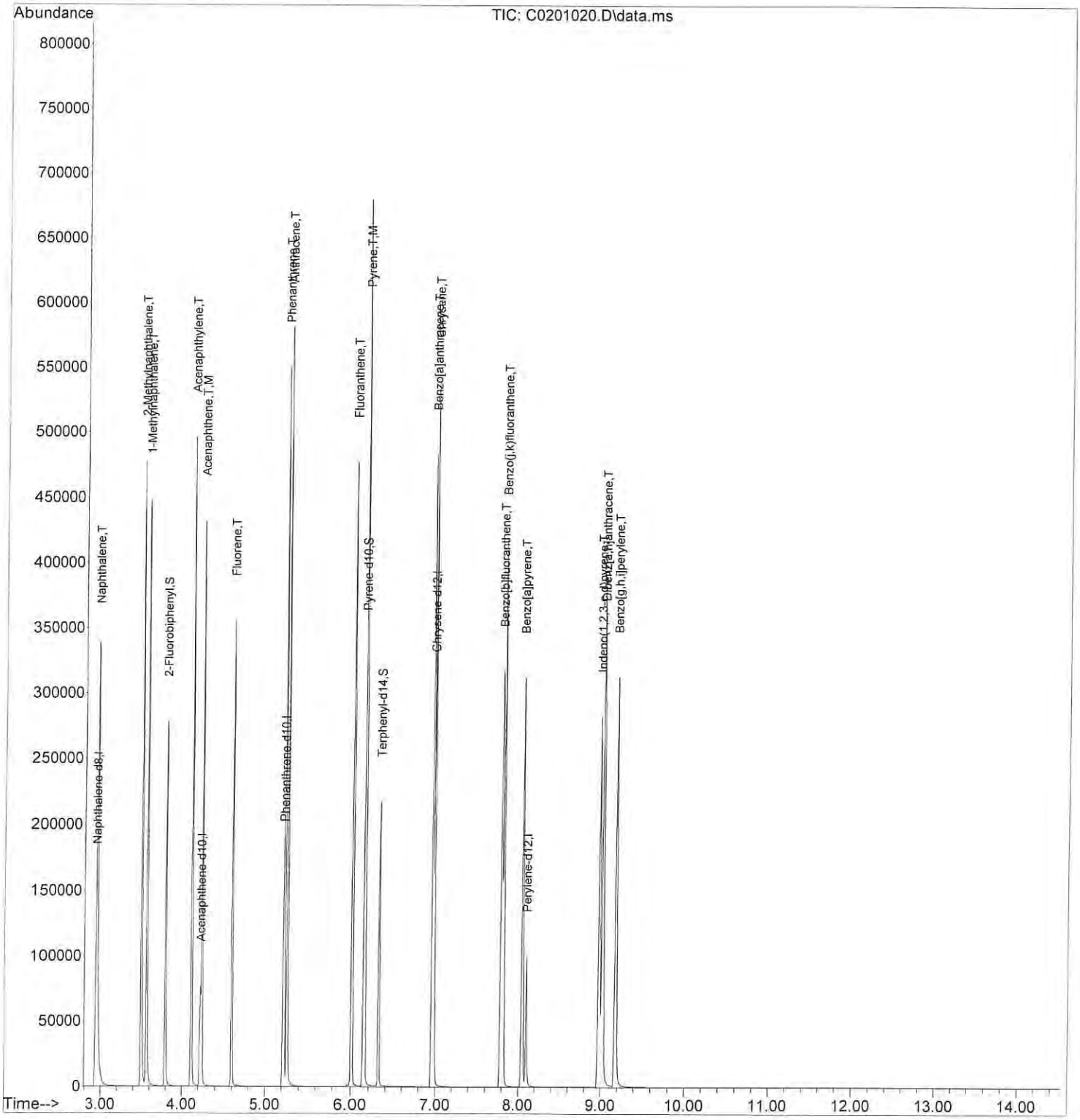
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201020.D
Acq On : 1 Feb 2024 4:43 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-141-01
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 02 09:47:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201022.D
Acq On : 1 Feb 2024 5:27 pm
Operator : JP
Sample : ICV
Misc : SV6-141-09
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 02 09:50:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	107	0.34
2	T	Naphthalene	500.000	482.918	3.4	102	0.34
3	T	2-Methylnaphthalene	500.000	527.681	-5.5	108	0.30
4	T	1-Methylnaphthalene	500.000	457.154	8.6	104	0.30
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	104	0.30
6	S	2-Fluorobiphenyl	500.000	509.094	-1.8	103	0.29
7	T	Acenaphthylene	500.000	487.828	2.4	102	0.29
8	T,M	Acenaphthene	500.000	493.588	1.3	106	0.29
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	102	0.30
10	S	Pyrene-d10	500.000	477.367	4.5	102	0.31
11	T	Fluorene	500.000	462.937	7.4	100	0.29
12	T	Phenanthrene	500.000	464.353	7.1	103	0.30
13	T	Anthracene	500.000	461.726	7.7	101	0.30
14	T	Fluoranthene	500.000	467.917	6.4	102	0.30
15	T,M	Pyrene	500.000	490.679	1.9	103	0.32
16	I	Chrysene-d12	2000.000	2000.000	0.0	103	0.31
17	S	Terphenyl-d14	500.000	483.328	3.3	102	0.30
18	T	Benzo[a]anthracene	500.000	447.991	10.4	106	0.31
19	T	Chrysene	500.000	440.753	11.8	95	0.31
20	I	Perylene-d12	2000.000	2000.000	0.0	102	0.43
21	T	Benzo[b]fluoranthene	500.000	469.417	6.1	95	0.40
22	T	Benzo(j,k)fluoranthene	500.000	461.361	7.7	104	0.41
23	T	Benzo[a]pyrene	500.000	489.348	2.1	105	0.43
24	T	Indeno(1,2,3-c,d)pyrene	500.000	507.889	-1.6	104	0.50
25	T	Dibenz[a,h]anthracene	500.000	487.294	2.5	102	0.50
26	T	Benzo[g,h,i]perylene	500.000	488.137	2.4	104	0.51#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201022.D
Acq On : 1 Feb 2024 5:27 pm
Operator : JP
Sample : ICV
Misc : SV6-141-09
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 02 09:50:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 02 08:38:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.937	136	121296	2000.00	ppb	0.00
5) Acenaphthene-d10	4.221	164	56914	2000.00	ppb	0.00
9) Phenanthrene-d10	5.210	188	109884	2000.00	ppb	0.00
16) Chrysene-d12	6.966	240	99464	2000.00	ppb	0.00
20) Perylene-d12	8.095	264	105661	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.794	172	26139	509.09	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 50.91%			
10) Pyrene-d10	6.140	212	24960	477.37	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.74%			
17) Terphenyl-d14	6.313	244	22035	483.33	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 48.33%			
Target Compounds						Qvalue
2) Naphthalene	2.952	128	38557	482.92	ppb	99
3) 2-Methylnaphthalene	3.498	142	21801	527.68	ppb	97
4) 1-Methylnaphthalene	3.561	142	22579	457.15	ppb	97
7) Acenaphthylene	4.114	152	36057	487.83	ppb	100
8) Acenaphthene	4.237	153	23261	493.59	ppb	100
11) Fluorene	4.599	166	23195	462.94	ppb	100
12) Phenanthrene	5.222	178	34901	464.35	ppb	97
13) Anthracene	5.257	178	33909	461.73	ppb	97
14) Fluoranthene	6.006	202	34256	467.92	ppb	91
15) Pyrene	6.150	202	37087	490.68	ppb	99
18) Benzo[a]anthracene	6.954	228	32231	447.99	ppb	96
19) Chrysene	6.977	228	30960	440.75	ppb	99
21) Benzo[b]fluoranthene	7.787	252	31861	469.42	ppb	88
22) Benzo(j,k)fluoranthene	7.810	252	33418	461.36	ppb	91
23) Benzo[a]pyrene	8.042	252	29141	489.35	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.975	276	28914	507.89	ppb	88
25) Dibenz[a,h]anthracene	9.014	278	31868	487.29	ppb	92
26) Benzo[g,h,i]perylene	9.168	276	32301	488.14	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216005.D
Acq On : 16 Feb 2024 12:23 pm
Operator : JP
Sample : PAH CCV0216-4
Misc : SV6-142-20
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 16 12:41:23 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	97	-0.09
2	T	Naphthalene	500.000	480.382	3.9	92	-0.09
3	T	2-Methylnaphthalene	500.000	490.419	1.9	91	-0.09
4	T	1-Methylnaphthalene	500.000	449.953	10.0	92	-0.09
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	94	-0.08
6	S	2-Fluorobiphenyl	500.000	516.976	-3.4	94	-0.08
7	T	Acenaphthylene	500.000	497.345	0.5	94	-0.09
8	T,M	Acenaphthene	500.000	481.249	3.8	93	-0.09
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	93	-0.08
10	S	Pyrene-d10	500.000	472.359	5.5	92	-0.10
11	T	Fluorene	500.000	474.455	5.1	94	-0.08
12	T	Phenanthrene	500.000	455.880	8.8	92	-0.08
13	T	Anthracene	500.000	463.950	7.2	92	-0.08
14	T	Fluoranthene	500.000	474.405	5.1	94	-0.09
15	T,M	Pyrene	500.000	479.140	4.2	92	-0.10
16	I	Chrysene-d12	2000.000	2000.000	0.0	90	-0.14
17	S	Terphenyl-d14	500.000	501.088	-0.2	92	-0.10
18	T	Benzo[a]anthracene	500.000	475.184	5.0	98	-0.14
19	T	Chrysene	500.000	469.656	6.1	89	-0.14
20	I	Perylene-d12	2000.000	2000.000	0.0	88	-0.17
21	T	Benzo[b]fluoranthene	500.000	498.820	0.2	87	-0.17
22	T	Benzo(j,k)fluoranthene	500.000	505.038	-1.0	98	-0.17
23	T	Benzo[a]pyrene	500.000	517.796	-3.6	95	-0.17
24	T	Indeno(1,2,3-c,d)pyrene	500.000	546.519	-9.3	97	-0.18
25	T	Dibenz[a,h]anthracene	500.000	513.273	-2.7	92	-0.18
26	T	Benzo[g,h,i]perylene	500.000	510.645	-2.1	93	-0.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216005.D
Acq On : 16 Feb 2024 12:23 pm
Operator : JP
Sample : PAH CCV0216-4
Misc : SV6-142-20
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 16 12:41:23 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.762	136	109685	2000.00	ppb	-0.09
5) Acenaphthene-d10	4.064	164	51417	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	100269	2000.00	ppb	-0.08
16) Chrysene-d12	6.787	240	86900	2000.00	ppb	-0.14
20) Perylene-d12	7.849	264	90813	2000.00	ppb	-0.17
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.646	172	23980	516.98	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 51.70%			
10) Pyrene-d10	5.973	212	22537	472.36	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.24%			
17) Terphenyl-d14	6.156	244	19959	501.09	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 50.11%			
Target Compounds						Qvalue
2) Naphthalene	2.777	128	34683	480.38	ppb	99
3) 2-Methylnaphthalene	3.339	142	18322	490.42	ppb	96
4) 1-Methylnaphthalene	3.403	142	20096	449.95	ppb	94
7) Acenaphthylene	3.956	152	33210	497.35	ppb	100
8) Acenaphthene	4.079	153	20489	481.25	ppb	100
11) Fluorene	4.441	166	21692	474.45	ppb	100
12) Phenanthrene	5.063	178	31266	455.88	ppb	98
13) Anthracene	5.098	178	31091	463.95	ppb	97
14) Fluoranthene	5.848	202	31692	474.41	ppb	91
15) Pyrene	5.983	202	33046	479.14	ppb	99
18) Benzo[a]anthracene	6.781	228	29869	475.18	ppb	94
19) Chrysene	6.805	228	28823	469.66	ppb	97
21) Benzo[b]fluoranthene	7.552	252	29099	498.82	ppb	87
22) Benzo(j,k)fluoranthene	7.576	252	31441m	505.04	ppb	
23) Benzo[a]pyrene	7.796	252	26502	517.80	ppb	88
24) Indeno(1,2,3-c,d)pyrene	8.692	276	26741m	546.52	ppb	
25) Dibenz[a,h]anthracene	8.738	278	28850	513.27	ppb	89
26) Benzo[g,h,i]perylene	8.884	276	29042	510.64	ppb	84

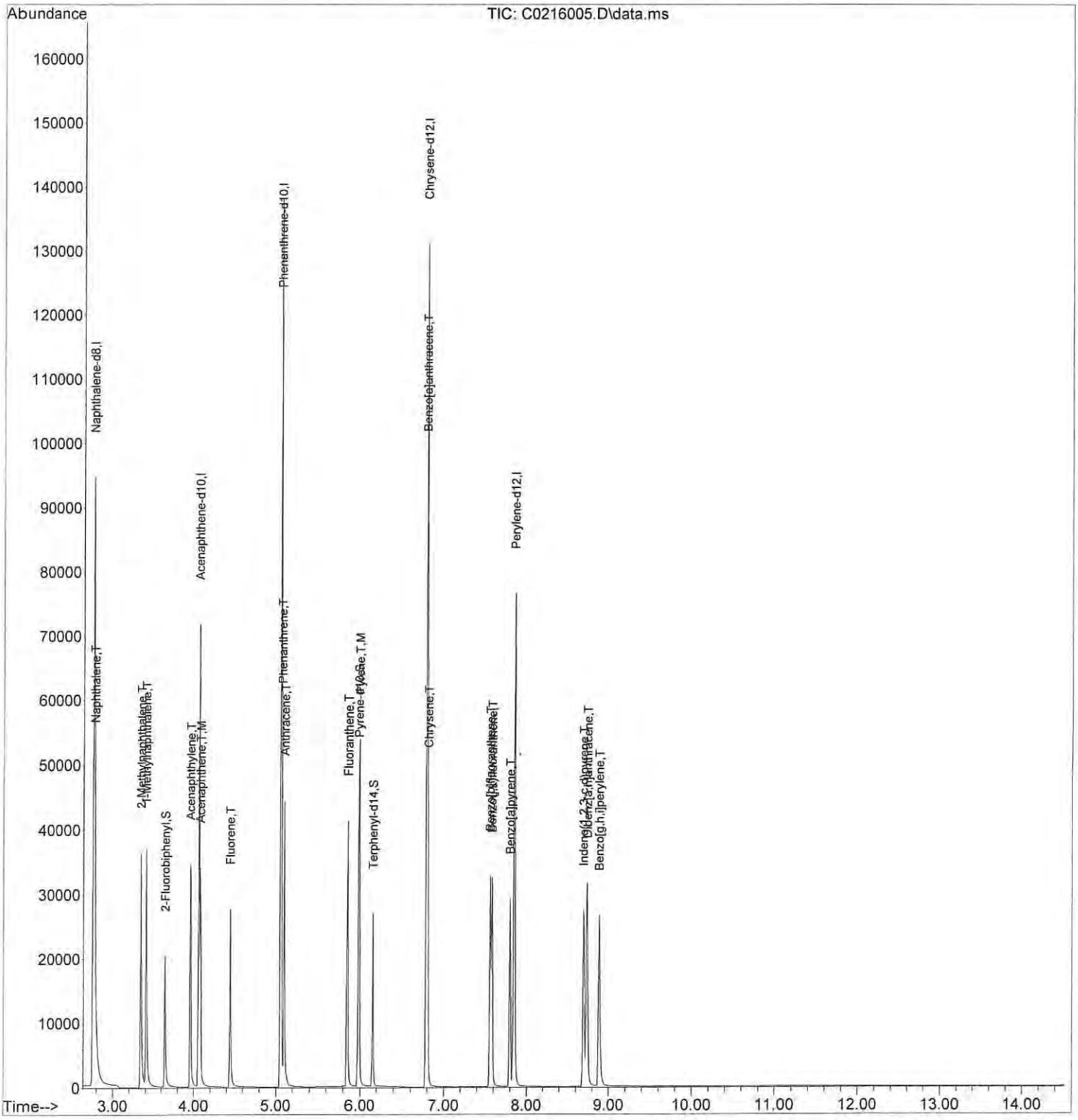
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240216\
Data File : C0216005.D
Acq On : 16 Feb 2024 12:23 pm
Operator : JP
Sample : PAH CCV0216-4
Misc : SV6-142-20
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 16 12:41:23 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240220\
Data File : C0220001.D
Acq On : 20 Feb 2024 10:22 am
Operator : JP
Sample : PAH CCV0220-1
Misc : SV6-142-21
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:56:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	102	-0.10
2	T	Naphthalene	500.000	546.513	-9.3	110	-0.10
3	T	2-Methylnaphthalene	500.000	492.681	1.5	96	-0.09
4	T	1-Methylnaphthalene	500.000	442.389	11.5	96	-0.09
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	95	-0.08
6	S	2-Fluorobiphenyl	500.000	485.108	3.0	90	-0.08
7	T	Acenaphthylene	500.000	500.726	-0.1	96	-0.08
8	T,M	Acenaphthene	500.000	484.275	3.1	95	-0.08
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	96	-0.08
10	S	Pyrene-d10	500.000	489.928	2.0	99	-0.10
11	T	Fluorene	500.000	470.961	5.8	96	-0.08
12	T	Phenanthrene	500.000	458.379	8.3	96	-0.08
13	T	Anthracene	500.000	472.283	5.5	97	-0.08
14	T	Fluoranthene	500.000	488.271	2.3	100	-0.09
15	T,M	Pyrene	500.000	479.171	4.2	95	-0.10
16	I	Chrysene-d12	2000.000	2000.000	0.0	92	-0.13
17	S	Terphenyl-d14	500.000	510.323	-2.1	96	-0.10
18	T	Benzo[a]anthracene	500.000	462.059	7.6	97	-0.13
19	T	Chrysene	500.000	473.929	5.2	91	-0.13
20	I	Perylene-d12	2000.000	2000.000	0.0	92	-0.16
21	T	Benzo[b]fluoranthene	500.000	490.100	2.0	89	-0.15
22	T	Benzo(j,k)fluoranthene	500.000	492.961	1.4	100	-0.15
23	T	Benzo[a]pyrene	500.000	504.988	-1.0	97	-0.16
24	T	Indeno(1,2,3-c,d)pyrene	500.000	516.133	-3.2	95	-0.18
25	T	Dibenz[a,h]anthracene	500.000	462.020	7.6	86	-0.18
26	T	Benzo[g,h,i]perylene	500.000	494.042	1.2	94	-0.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240220\
Data File : C0220001.D
Acq On : 20 Feb 2024 10:22 am
Operator : JP
Sample : PAH CCV0220-1
Misc : SV6-142-21
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:56:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

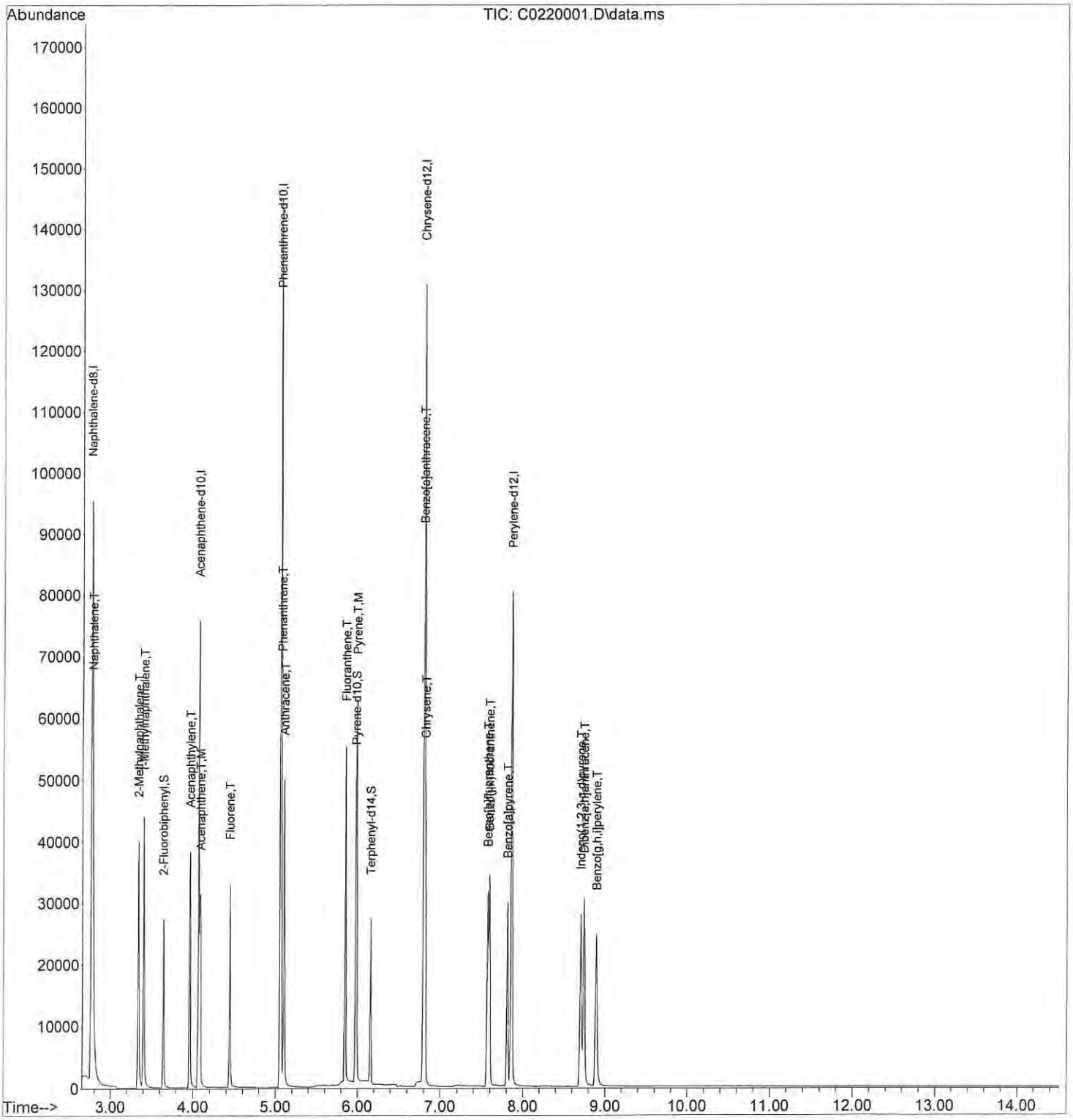
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.756	136	115635	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.062	164	52400	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.050	188	103588	2000.00	ppb	-0.08
16) Chrysene-d12	6.799	240	88444	2000.00	ppb	-0.13
20) Perylene-d12	7.855	264	94757	2000.00	ppb	-0.16
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.641	172	22932	485.11	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 48.51%			
10) Pyrene-d10	5.973	212	24149	489.93	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 48.99%			
17) Terphenyl-d14	6.156	244	20688	510.32	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 51.03%			
Target Compounds						Qvalue
2) Naphthalene	2.771	128	41598	546.51	ppb	99
3) 2-Methylnaphthalene	3.339	142	19405	492.68	ppb	95
4) 1-Methylnaphthalene	3.403	142	20830	442.39	ppb	96
7) Acenaphthylene	3.962	152	34075	500.73	ppb	100
8) Acenaphthene	4.085	153	21012	484.27	ppb	100
11) Fluorene	4.440	166	22245	470.96	ppb	100
12) Phenanthrene	5.062	178	32478	458.38	ppb	97
13) Anthracene	5.097	178	32697	472.28	ppb	98
14) Fluoranthene	5.848	202	33698	488.27	ppb	94
15) Pyrene	5.983	202	34142	479.17	ppb	97
18) Benzo[a]anthracene	6.793	228	29560	462.06	ppb	95
19) Chrysene	6.816	228	29602	473.93	ppb	100
21) Benzo[b]fluoranthene	7.570	252	29832	490.10	ppb	87
22) Benzo(j,k)fluoranthene	7.588	252	32022m	492.96	ppb	
23) Benzo[a]pyrene	7.808	252	26969	504.99	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.700	276	26351	516.13	ppb	85
25) Dibenz[a,h]anthracene	8.738	278	27097	462.02	ppb	89
26) Benzo[g,h,i]perylene	8.893	276	29318	494.04	ppb	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Data Path : X:\semivols\Corey\DATA\C240220\
Data File : C0220001.D
Acq On : 20 Feb 2024 10:22 am
Operator : JP
Sample : PAH CCV0220-1
Misc : SV6-142-21
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:56:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221006.D
Acq On : 21 Feb 2024 11:50 am
Operator : JP
Sample : PAH CCV0221-3
Misc : SV6-142-23
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 12:04:36 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	101	-0.09
2	T	Naphthalene	500.000	460.388	7.9	92	-0.10
3	T	2-Methylnaphthalene	500.000	457.375	8.5	88	-0.09
4	T	1-Methylnaphthalene	500.000	435.308	12.9	93	-0.09
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	97	-0.08
6	S	2-Fluorobiphenyl	500.000	486.897	2.6	92	-0.08
7	T	Acenaphthylene	500.000	470.350	5.9	92	-0.08
8	T,M	Acenaphthene	500.000	454.573	9.1	91	-0.09
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	97	-0.08
10	S	Pyrene-d10	500.000	456.877	8.6	93	-0.10
11	T	Fluorene	500.000	450.898	9.8	93	-0.08
12	T	Phenanthrene	500.000	423.510	15.3	89	-0.08
13	T	Anthracene	500.000	438.245	12.4	91	-0.08
14	T	Fluoranthene	500.000	441.284	11.7	91	-0.09
15	T,M	Pyrene	500.000	454.752	9.0	91	-0.10
16	I	Chrysene-d12	2000.000	2000.000	0.0	95	-0.14
17	S	Terphenyl-d14	500.000	485.493	2.9	94	-0.10
18	T	Benzo[a]anthracene	500.000	445.069	11.0	97	-0.14
19	T	Chrysene	500.000	439.176	12.2	87	-0.14
20	I	Perylene-d12	2000.000	2000.000	0.0	95	-0.18
21	T	Benzo[b]fluoranthene	500.000	459.690	8.1	86	-0.17
22	T	Benzo(j,k)fluoranthene	500.000	463.147	7.4	97	-0.16
23	T	Benzo[a]pyrene	500.000	464.659	7.1	92	-0.17
24	T	Indeno(1,2,3-c,d)pyrene	500.000	480.859	3.8	92	-0.18
25	T	Dibenz[a,h]anthracene	500.000	466.006	6.8	90	-0.18
26	T	Benzo[g,h,i]perylene	500.000	462.625	7.5	91	-0.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221006.D
Acq On : 21 Feb 2024 11:50 am
Operator : JP
Sample : PAH CCV0221-3
Misc : SV6-142-23
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 12:04:36 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.762	136	114554	2000.00	ppb	-0.09
5) Acenaphthene-d10	4.062	164	53430	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.051	188	104812	2000.00	ppb	-0.08
16) Chrysene-d12	6.788	240	91435	2000.00	ppb	-0.14
20) Perylene-d12	7.844	264	97937	2000.00	ppb	-0.18
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.647	172	23469	486.90	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 48.69%			
10) Pyrene-d10	5.973	212	22786	456.88	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 45.69%			
17) Terphenyl-d14	6.156	244	20347	485.49	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 48.55%			
Target Compounds						Qvalue
2) Naphthalene	2.770	128	34715	460.39	ppb	98
3) 2-Methylnaphthalene	3.339	142	17846	457.38	ppb	96
4) 1-Methylnaphthalene	3.403	142	20305	435.31	ppb	95
7) Acenaphthylene	3.962	152	32637	470.35	ppb	100
8) Acenaphthene	4.078	153	20111	454.57	ppb	100
11) Fluorene	4.440	166	21549	450.90	ppb	100
12) Phenanthrene	5.063	178	30362	423.51	ppb	98
13) Anthracene	5.097	178	30699	438.24	ppb	97
14) Fluoranthene	5.848	202	30815	441.28	ppb	92
15) Pyrene	5.983	202	32785	454.75	ppb	99
18) Benzo[a]anthracene	6.782	228	29436	445.07	ppb	99
19) Chrysene	6.806	228	28359	439.18	ppb	95
21) Benzo[b]fluoranthene	7.553	252	28920	459.69	ppb	86
22) Benzo(j,k)fluoranthene	7.576	252	31095	463.15	ppb	91
23) Benzo[a]pyrene	7.797	252	25648	464.66	ppb	88
24) Indeno(1,2,3-c,d)pyrene	8.692	276	25374	480.86	ppb	87
25) Dibenz[a,h]anthracene	8.738	278	28248	466.01	ppb	90
26) Benzo[g,h,i]perylene	8.885	276	28375	462.63	ppb	84

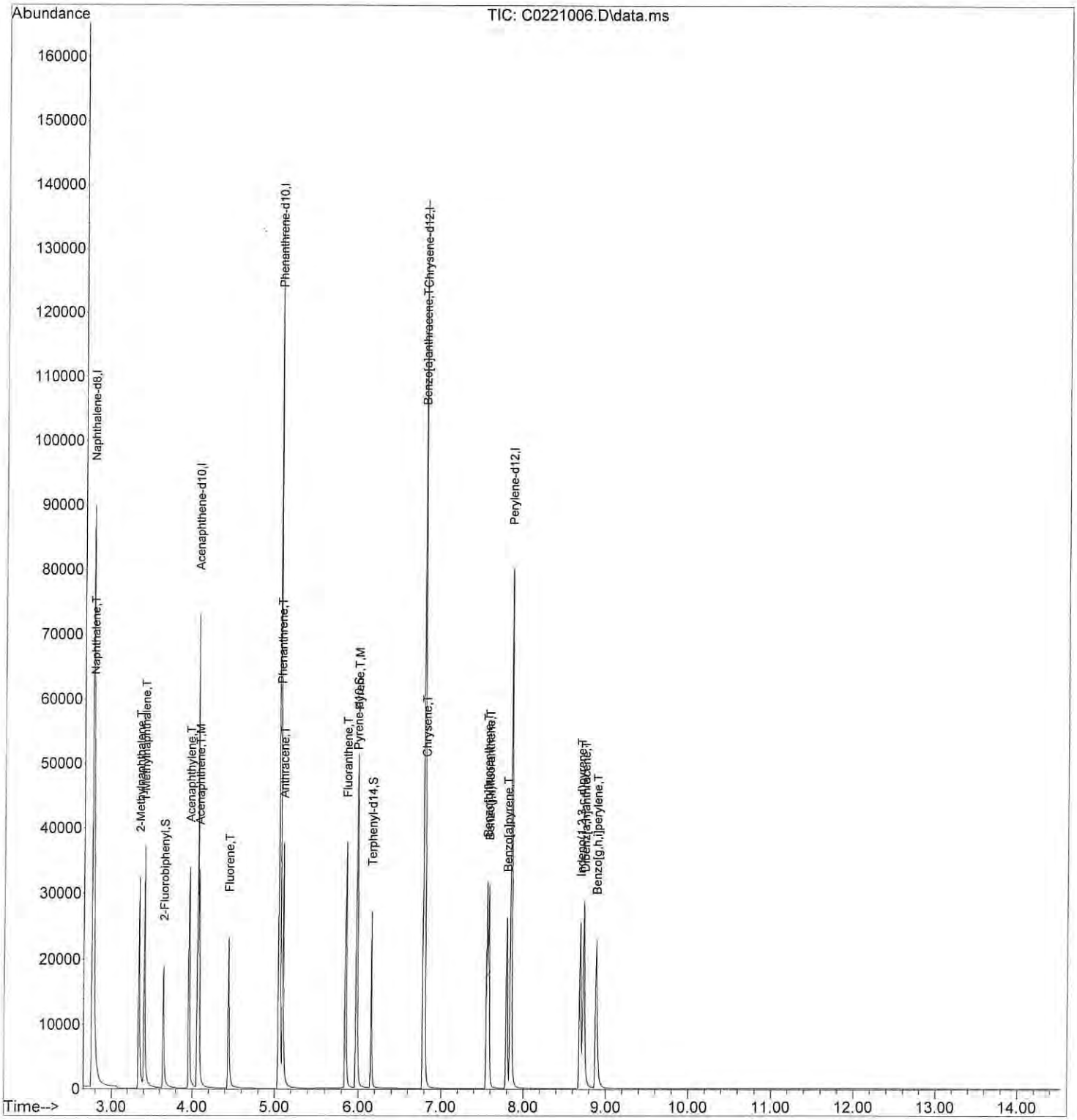
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240221\
Data File : C0221006.D
Acq On : 21 Feb 2024 11:50 am
Operator : JP
Sample : PAH CCV0221-3
Misc : SV6-142-23
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 21 12:04:36 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240222\
Data File : C0222001.D
Acq On : 22 Feb 2024 9:22 am
Operator : JP
Sample : PAH CCV0222-1
Misc : SV6-142-24
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 09:40:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	97	-0.10
2	T	Naphthalene	500.000	491.216	1.8	94	-0.10
3	T	2-Methylnaphthalene	500.000	439.049	12.2	81	-0.09
4	T	1-Methylnaphthalene	500.000	444.083	11.2	91	-0.09
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	97	-0.08
6	S	2-Fluorobiphenyl	500.000	489.199	2.2	92	-0.08
7	T	Acenaphthylene	500.000	472.434	5.5	92	-0.09
8	T,M	Acenaphthene	500.000	461.201	7.8	92	-0.09
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	94	-0.09
10	S	Pyrene-d10	500.000	469.847	6.0	93	-0.10
11	T	Fluorene	500.000	453.602	9.3	91	-0.08
12	T	Phenanthrene	500.000	417.927	16.4	86	-0.09
13	T	Anthracene	500.000	450.782	9.8	91	-0.09
14	T	Fluoranthene	500.000	461.730	7.7	93	-0.09
15	T,M	Pyrene	500.000	461.051	7.8	90	-0.10
16	I	Chrysene-d12	2000.000	2000.000	0.0	95	-0.12
17	S	Terphenyl-d14	500.000	496.447	0.7	96	-0.10
18	T	Benzo[a]anthracene	500.000	430.653	13.9	94	-0.13
19	T	Chrysene	500.000	463.991	7.2	92	-0.12
20	I	Perylene-d12	2000.000	2000.000	0.0	94	-0.16
21	T	Benzo[b]fluoranthene	500.000	456.457	8.7	84	-0.15
22	T	Benzo(j,k)fluoranthene	500.000	477.739	4.5	99	-0.15
23	T	Benzo[a]pyrene	500.000	484.572	3.1	95	-0.15
24	T	Indeno(1,2,3-c,d)pyrene	500.000	511.991	-2.4	96	-0.17
25	T	Dibenz[a,h]anthracene	500.000	463.386	7.3	88	-0.18
26	T	Benzo[g,h,i]perylene	500.000	466.757	6.6	91	-0.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240222\
Data File : C0222001.D
Acq On : 22 Feb 2024 9:22 am
Operator : JP
Sample : PAH CCV0222-1
Misc : SV6-142-24
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 09:40:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	2.756	136	109907	2000.00	ppb	-0.10
5) Acenaphthene-d10	4.062	164	53165	2000.00	ppb	-0.08
9) Phenanthrene-d10	5.050	188	101731	2000.00	ppb	-0.09
16) Chrysene-d12	6.810	240	91382	2000.00	ppb	-0.12
20) Perylene-d12	7.861	264	96622	2000.00	ppb	-0.16
System Monitoring Compounds						
6) 2-Fluorobiphenyl	3.641	172	23463	489.20	ppb	-0.08
Spiked Amount 1000.000	Range 25 - 89		Recovery = 48.92%			
10) Pyrene-d10	5.973	212	22744	469.85	ppb	-0.10
Spiked Amount 1000.000	Range 40 - 110		Recovery = 46.99%			
17) Terphenyl-d14	6.156	244	20794	496.45	ppb	-0.10
Spiked Amount 1000.000	Range 39 - 92		Recovery = 49.65%			
Target Compounds						Qvalue
2) Naphthalene	2.771	128	35537	491.22	ppb	99
3) 2-Methylnaphthalene	3.339	142	16436	439.05	ppb	97
4) 1-Methylnaphthalene	3.403	142	19874	444.08	ppb	97
7) Acenaphthylene	3.954	152	32619	472.43	ppb	100
8) Acenaphthene	4.078	153	20303	461.20	ppb	100
11) Fluorene	4.440	166	21041	453.60	ppb	100
12) Phenanthrene	5.062	178	29081	417.93	ppb	97
13) Anthracene	5.096	178	30649	450.78	ppb	98
14) Fluoranthene	5.849	202	31295	461.73	ppb	91
15) Pyrene	5.983	202	32262	461.05	ppb	96
18) Benzo[a]anthracene	6.799	228	28466	430.65	ppb	94
19) Chrysene	6.822	228	29944	463.99	ppb	100
21) Benzo[b]fluoranthene	7.576	252	28331	456.46	ppb	86
22) Benzo(j,k)fluoranthene	7.593	252	31644m	477.74	ppb	
23) Benzo[a]pyrene	7.814	252	26388	484.57	ppb	89
24) Indeno(1,2,3-c,d)pyrene	8.707	276	26654	511.99	ppb	87
25) Dibenz[a,h]anthracene	8.746	278	27712	463.39	ppb	89
26) Benzo[g,h,i]perylene	8.893	276	28244	466.76	ppb	83

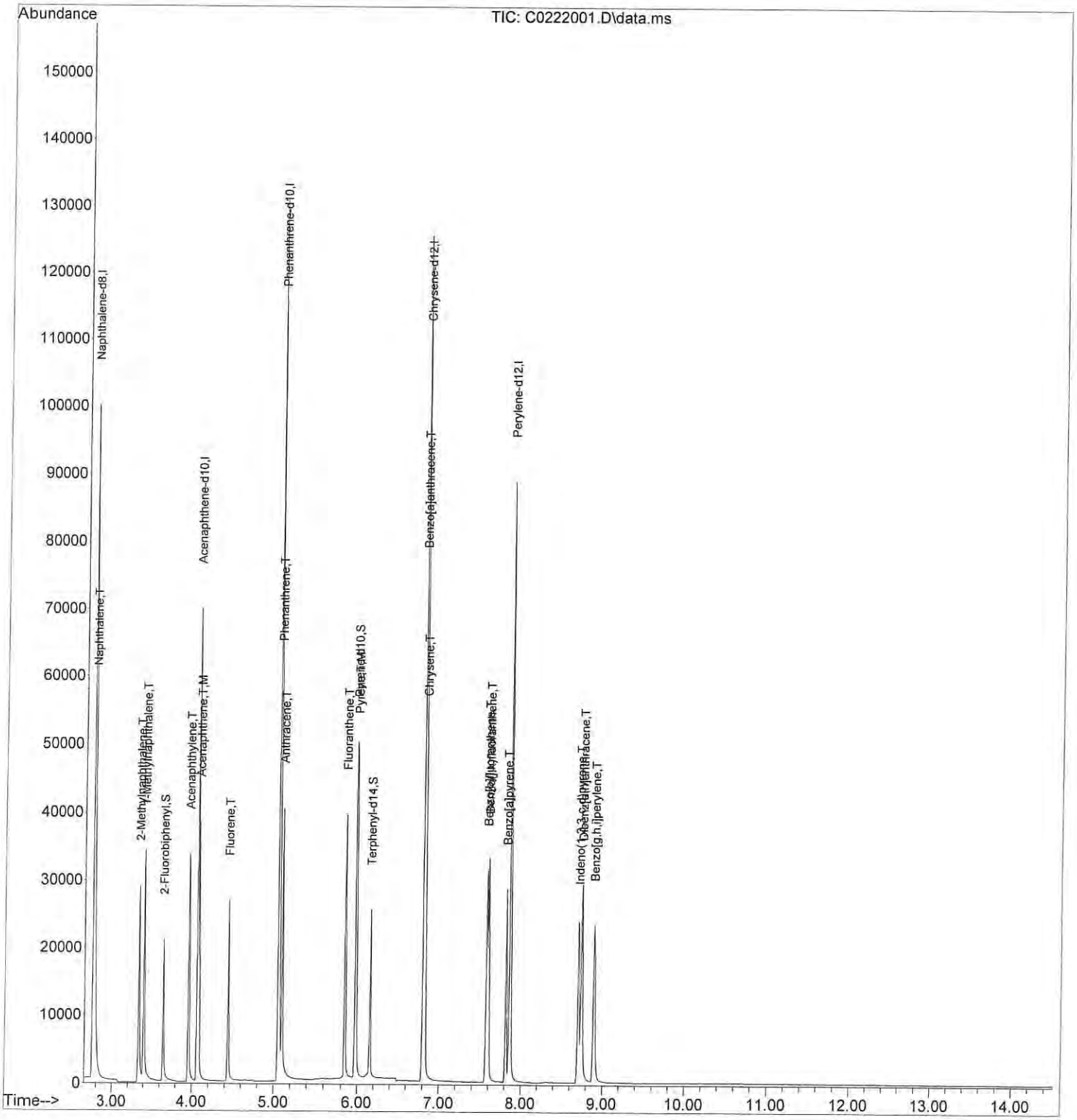
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 2/26/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240222\
Data File : C0222001.D
Acq On : 22 Feb 2024 9:22 am
Operator : JP
Sample : PAH CCV0222-1
Misc : SV6-142-24
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 09:40:26 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240201.M
Quant Title : PAH'S BY SIMS
QLast Update : Fri Feb 09 10:28:25 2024
Response via : Initial Calibration

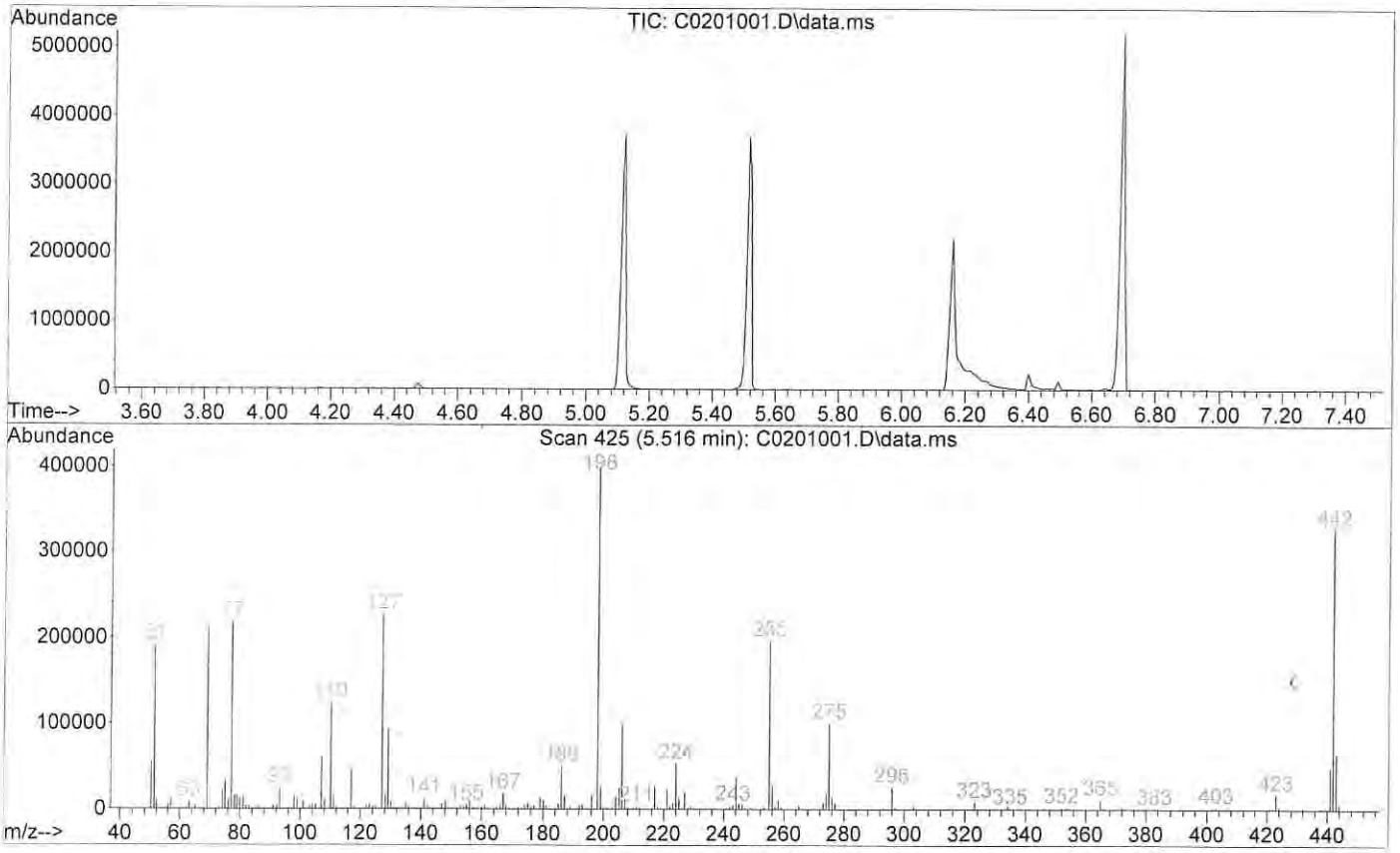


DFTPP

Data Path : X:\semivols\Corey\DATA\C240201\
Data File : C0201001.D
Acq On : 1 Feb 2024 9:16 am
Operator : JP
Sample : DFTPP
Misc : SV6-139-31
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\CS240201.M
Title : PAH'S BY SIMS
Last Update : Wed Mar 06 08:56:36 2024



Spectrum Information: Scan 425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.8	190912	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.5	213824	PASS
70	69	0.00	2	0.4	924	PASS
127	198	10	80	56.7	226496	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	399744	PASS
199	198	5	9	6.5	25896	PASS
275	198	10	60	25.1	100512	PASS
365	198	0.10	100	2.8	11338	PASS
441	443	0.01	100	76.7	49456	PASS
442	198	40	110	82.0	327744	PASS
443	442	15	24	19.7	64480	PASS

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240201\C0201022.D
Tune Time : 1 Feb 2024 5:27 pm

Daily Calibration File : X:\semivols\Corey\DATA\C240201\C0201022.D

	(PRY)	(NPT)	(ACE)	(PHN)
		121296	56914	109884
		(CRY)	(PRY)	
		99464	105661	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0201013.D							
	10 PPB ICA	1*	1*	1*	119893	58907	111376
					98450	105479	
C0201014.D							
	20 PPB ICA	2*	2*	2*	115401	53731	103824
					91104	97233	
C0201015.D							
	50 PPB ICA	5*	5*	5*	115805	55372	109053
					95998	102981	
C0201016.D							
	100 PPB IC	11*	10*	10*	113327	54724	105436
					92697	99727	
C0201017.D							
	200 PPB IC	20*	20*	20*	117640	55244	106287
					93585	101068	
C0201018.D							
	500 PPB IC	51	48	49	113498	54985	107872
					96261	103222	
C0201019.D							
	1000 PPB I	101*	98	95*	118947	56109	107192
					97228	103344	
C0201020.D							
	5000 PPB I	481*	469*	446*	118633	59171	109874
					105360	106359	

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 10:48:28 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240216\C0216005.D
Tune Time : 16 Feb 2024 12:23 pm

Daily Calibration File : X:\semivols\Corey\DATA\C240216\C0216005.D

(PRY)	(NPT)	(ACE)	(PHN)
	109685	51417	100269

(CRY)	(PRY)
86900	90813

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0216009.D							
	MB0216W1	69	80	99*	105267	48485	91458
				77722	81885		
C0216010.D							
	SB0216W1 D	60	73	78	103561	48397	93608
				80666	84191		
C0216011.D							
	SB0216W1	66	86	90	103997	48798	92162
				78982	82736		
C0216017.D							
	02-208-03	43	54	55	100622	47657	91329
				78212	82604		

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 10:46:31 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240220\C0220001.D
Tune Time : 20 Feb 2024 10:22 am

Daily Calibration File : X:\semivols\Corey\DATA\C240220\C0220001.D

(PRY)	(NPT)	(ACE)	(PHN)
	115635	52400	103588

(CRY)	(PRY)
88444	94757

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0220003.D							
	MB0216W1 R	58	77	79	103973	50960	96024
			82721	89730			

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 10:55:33 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240221\C0221006.D
Tune Time : 21 Feb 2024 11:50 am

Daily Calibration File : X:\semivols\Corey\DATA\C240221\C0221006.D

(PRY)	(NPT)	(ACE)	(PHN)
	114554	53430	104812

(CRY)	(PRY)
91435	97937

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0221007.D							
	SB0221W1	60	72	72	103917	50056	97014
				85421	89982		
C0221008.D							
	SB0221W1 D	69	72	74	108677	49746	96356
				84058	89448		
C0221010.D							
	MB0221W1	39	44	47	107702	50119	97948
				83513	89242		
C0221012.D							
	02-208-05	45	45	46	93795	46216	87295
				72819	78653		
C0221013.D							
	02-208-01	51	58	60	101251	46481	88396
				73696	79742		
C0221014.D							
	02-208-02	46	44	44	92159	45192	85522
				72567	76460		
C0221015.D							
	02-208-04	50	56	60	99172	47297	86909
				73944	79193		

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 10:47:31 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240222\C0222001.D
Tune Time : 22 Feb 2024 9:22 am

Daily Calibration File : X:\semivols\Corey\DATA\C240222\C0222001.D

(PRY)	(NPT)	(ACE)	(PHN)
	109907	53165	101731

(CRY)	(PRY)
91382	96622

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0222007.D							
	MB0221W1 R	37	45	45	104818	49492	94760
			81475	86765			

(fails) - fails 12hr time check * - fails criteria

Created: Fri Aug 23 10:09:25 2024 Corey

Sequence Name: C:\msdchem\1\sequence\C240201.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240201\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0201001 CSIMSCAN DFTPP
2)	Sample 2	C0201002 CS240111 M
3)	Sample 3	C0201003 CS240111 M
4)	Sample 4	C0201004 CS240111 M
5)	Sample 5	C0201005 CS240111 M
6)	Sample 6	C0201006 CS240111 M
7)	Sample 7	C0201007 CS240111 M
8)	Sample 8	C0201008 CS240111 10 PPB ICAL
9)	Sample 9	C0201009 CS240111 20 PPB ICAL
10)	Sample 10	C0201010 CS240111 M
11)	Sample 11	C0201011 CS240111 M
12)	Sample 12	C0201012 CS240111 M
13)	Sample 13	C0201013 CS240111 10 PPB ICAL
14)	Sample 14	C0201014 CS240111 20 PPB ICAL
15)	Sample 15	C0201015 CS240111 50 PPB ICAL
16)	Sample 16	C0201016 CS240111 100 PPB ICAL
17)	Sample 17	C0201017 CS240111 200 PPB ICAL
18)	Sample 18	C0201018 CS240111 500 PPB ICAL
19)	Sample 19	C0201019 CS240111 1000 PPB ICAL
20)	Sample 20	C0201020 CS240111 5000 PPB ICAL
21)	Sample 21	C0201021 CS240111 M
22)	Sample 22	C0201022 CS240111 ICV
23)	Sample 23	C0201023 CS240111 M
24)	Sample 24	C0201024 CS240111 M
25)	Sample 25	C0201025 CS240111 MB1227S1
26)	Sample 26	C0201026 CS240111 PAH SONIC LLOQ
27)	Sample 27	C0201027 CS240111 01-262-24 5X

Sequence Name: C:\msdchem\1\sequence\C240216.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240216\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0216001 CS240201 PAH CCV0216-1
2)	Sample 2	C0216002 CS240201 M
3)	Sample 3	C0216003 CS240201 PAH CCV0216-2
4)	Sample 4	C0216004 CS240201 PAH CCV0216-3
5)	Sample 5	C0216005 CS240201 PAH CCV0216-4
6)	Sample 6	C0216006 CS240201 M
7)	Sample 7	C0216007 CS240201 SB0216W1
8)	Sample 8	C0216008 CS240201 SB0216W1 DUP
9)	Sample 9	C0216009 CS240201 MB0216W1
10)	Sample 10	C0216010 CS240201 SB0216W1 DUP
11)	Sample 11	C0216011 CS240201 SB0216W1
12)	Sample 12	C0216012 CS240201 M
13)	Sample 13	C0216013 CS240201 MB0216W1 RR
14)	Sample 14	C0216014 CS240201 02-186-01
15)	Sample 15	C0216015 CS240201 02-208-01
16)	Sample 16	C0216016 CS240201 02-208-02
17)	Sample 17	C0216017 CS240201 02-208-03
18)	Sample 18	C0216018 CS240201 02-208-05
19)	Sample 19	C0216019 CS240201 02-208-04

Sequence Name: C:\msdchem\1\sequence\C240220.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240216\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1) Sample	1	C0220001 CS240201 PAH CCV0220-1
2) Sample	2	C0220002 CS240201 M
3) Sample	3	C0220003 CS240201 MB0216W1 REX

Sequence Name: C:\msdchem\1\sequence\C240222.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240222\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0222001 CS240201 PAH CCV0222-1
2)	Sample 2	C0222002 CS240201 M
3)	Sample 3	C0222003 CS240201 SB0222W1
4)	Sample 4	C0222004 CS240201 SB0222W1 DUP
5)	Sample 5	C0222005 CS240201 M
6)	Sample 6	C0222006 CS240201 MB0222W1
7)	Sample 7	C0222007 CS240201 MB0221W1 RR
8)	Sample 8	C0222008 CS240201 02-224-03 REX
9)	Sample 9	C0222009 CS240201 02-224-08 REX
10)	Sample 10	C0222010 CS240201 02-224-11 REX
11)	Sample 11	C0222011 CS240201 02-224-01
12)	Sample 12	C0222012 CS240201 02-224-10
13)	Sample 13	C0222013 CS240201 02-224-01 ACTUAL
14)	Sample 14	C0222014 CS240201 02-224-10 ACTUAL
15)	Sample 15	C0222015 CS240201 02-224-14
16)	Sample 16	C0222016 CS240201 02-230-01
17)	Sample 17	C0222017 CS240201 02-230-02
18)	Sample 18	C0222018 CS240201 02-230-03
19)	Sample 19	C0222019 CS240201 02-230-04
20)	Sample 20	C0222020 CS240201 mb test

Sequence Name: C:\msdchem\1\sequence\C240221.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240221\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0221001 CS240201 PAH CCV0221-1
2)	Sample 2	C0221002 CS240201 M
3)	Sample 3	C0221003 CS240201 SB0221W1
4)	Sample 4	C0221004 CS240201 SB0221W1 DUP
5)	Sample 5	C0221005 CS240201 PAH CCV0221-2
6)	Sample 6	C0221006 CS240201 PAH CCV0221-3
7)	Sample 7	C0221007 CS240201 SB0221W1
8)	Sample 8	C0221008 CS240201 SB0221W1 DUP
9)	Sample 9	C0221009 CS240201 M
10)	Sample 10	C0221010 CS240201 MB0221W1
11)	Sample 11	C0221011 CS240201 02-186-01 REX
12)	Sample 12	C0221012 CS240201 02-208-05 RR
13)	Sample 13	C0221013 CS240201 02-208-01 REX
14)	Sample 14	C0221014 CS240201 02-208-02 REX
15)	Sample 15	C0221015 CS240201 02-208-04 REX
16)	Sample 16	C0221016 CS240201 02-224-03
17)	Sample 17	C0221017 CS240201 02-224-05
18)	Sample 18	C0221018 CS240201 02-224-07
19)	Sample 19	C0221019 CS240201 02-224-08
20)	Sample 20	C0221020 CS240201 02-224-09
21)	Sample 21	C0221021 CS240201 02-224-11

Date Extracted: 2/16/24 Time Ext. _____ am/pm

Analysis: PAH

Matrix: H2O

Surrogate Std. ID: SV6-142-08

Spike Std. ID: SV6-138-02

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB0216W1		1000ml	30ml	1ml	100uL			JS	REX
SB0216W1		1	1	1	1	100uL	1	1	
SBD0216W1		1	1	1	1	100uL	1	1	
02-186-01d		1513-499	1	1	1	1	1	1	
02-208-01a		1572-507	1	1	1	1	1	1	
02a		1578-507	1	1	1	1	1	1	
03a		1580-507	1	1	1	1	1	1	
04a		1558-505	1	1	1	1	1	1	
05a		1580-507	1	1	1	1	1	1	
				2/28/24 QH					

Clean-up (L)Alumina

OnSite Environmental Inc.

EPA 8270 EXTRACTION LOGBOOK

Date Extracted: 2/27/24 Time Ext. _____ am/pm

Analysis: PAH

Matrix: H2O

Surrogate Std. ID: SV6-142-08

Spike Std. ID: SV6-138-02

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB 0221w1		1000ml	30ml	1ml	100ul	/	/	JS	Rex
SB 0221w1		"	"	"	"	100ul	"	"	Rex
SBD 0221w1		"	"	"	"	100ul	"	"	Rex
02-186-01e		1530-498	"	"	"	/	"	"	
02-268-01b Rex		1574-507	"	"	"	"	"	"	
02b Rex		1579-508	"	"	"	"	"	"	
04b Rex		1560-507	"	"	"	"	"	"	Color
05b Rex		1584-506	"	"	"	"	"	"	Extract lost
02-274-01f		1553-508	"	"	"	"	"	"	Color
03f		1562-512	"	"	"	"	"	"	Color
05f		1553-508	"	"	"	"	"	"	Color
07f		1533-510	"	"	"	"	"	"	Color, smell
08f		1563-508	"	"	"	"	"	"	Color
09f		1521-510	"	"	"	"	"	"	Color, smell
10f		1552-508	"	"	"	"	"	"	Color
11f		1554-511	"	"	"	"	"	"	Color, smell
14f		1557-509	"	"	"	"	"	"	Color
02-230-01c		1554-506	"	"	"	"	"	"	Color, smell
02c		1553-504	"	"	"	"	"	"	Color
03c		1561-506	"	"	"	"	"	"	Color
04c		1558-504	"	"	"	"	"	"	Color
							2/28/24 QH		

Clean-up (L)Alumina

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA ccv	SVG13001	SVG128213	200ppm	100/100/100µL	200µL	20ppm	MeCl2	JP	11/1/23
8270 Cal Mix #5	SVG13002							JP	11/1/23

31995 8270 Calibration Mix #5, Revised US/EN
Lot# A0191064
Expire: 09/2028 Store: 10°C or colder 1 mL
2000 µg/mL each in Methylene Chloride
RESTEK

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
B/N Surr Mix	03								

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com Warning
[Notebook Label] 31887
Lot# A0197489
Expire 03/2029 Store 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date:
Opened Date:
Made in USA 1 mL
For Laboratory Use Only

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH working stock	04	SVG13002 03	2000 ppm 1000	50µL 100µL	10mL	10ppm	MeCl2		
PAH Mix	05								

SIGMA-ALDRICH
sigma-aldrich.com
Store at 2-8°C Exp. Mar/24
fp -11 °C closed cup
Rec. 6-21-21
CRM47543 Lot # LRAC8973
Polynuclear Aromatic Hydrocarbons Mix
certified reference material,
2000 µg/mL each component in benzene: dichloromethane (50:50),
ampule of 1 mL
EPA 8310 PAH Mix, EPA Polynuclear aromatic hydrocarbon mix
Product of USA
Contains: Methylene chloride, Benzene, 3,4-Benzpyrene. May produce an allergic reaction. Restricted to professional users. Safety datasheet is available. For R&D use only. Not for drug, household, or other uses.
NO GHS SYMBOL

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
B/N Surr ~~PAH ICV working stock~~	06 ~~07~~								

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com Warning
[Notebook Label] 31887
Lot# A0194490
Expire 01/2029 Store 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date:
Opened Date:
Made in USA 1 mL
For Laboratory Use Only

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ICV working stock	07	SVG13005 06	2000 ppm 1000	50 µL 100	10mL	10ppm	MeCl2		
ISTD Mix	08							JP	11/2/23

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
Z-014J 1 mL
Internal Standard Mix
4.0 mg/mL in CH2Cl2
Lot: 222091449 6 comp(s)
Exp: Sep 30, 2032 Storage: Ambient (>5 °C)/Sonicate
FOR LABORATORY USE ONLY
H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word Warning

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA 8270 ISTD	09	SVG13008	4000ppm	1mL	8mL	500ppm	MeCl2		

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 ICAL 1	SV613701	SV613617	1000ppm	1 mL	5mL	200ppm	MeCl2	JP	12/19/23
2	02	18							
		19	4000	0.25mL					
Benzoic Acid	03	20	2000	0.5mL					
BNA CCV	04	SV6137 11/12/13	2000ppm	20/20/20µL	200µL	20ppm	MeCl2	JP	12/19/23
PAH CCV	05	SV613004	10ppm	10µL		500ppb		JP	12/20/23
BNA CCV	06	SV6128 11/12/13	2000ppm	20/20/20µL		20ppm			
PAH ICV	SV613707	SV613007	10ppm	10µL		500ppb			12/26/23
PAH Stock	SV613708	SV613002	2000ppm	0.5mL	10mL	100ppm	MeCl2	JP	12/21/23
BNA CCV	09	SV6128 11/12/13	2000ppm	20/20/20 µL	200µL	20ppm			
PAH MDL Spike	10	SV613708	100ppm	50	10mL	500ppb	Acetone		
PAH CCV	11	SV613004	10ppm	10	200µL	500ppb	MeCl2		
PAH CCV	SV613712			10					12/22/23
BNA CCV	13	SV6128 11/12/13	2000ppm	20/20/20		20ppm			
PAH ICV	SV613714	SV613007	10ppm	10µL	200µL	500ppb	MeCl2	JP	12/22/23
PAH 5000	15	SV613004		500 µL	1mL	5000			
1000	16			100		1000			
500	17			50		500			
200	18			20		200			
100	19			10		100			
50	20	SV613716	1000ppb	50		50			
20	21			20		20			
10	22			10		10			
PAH CCV	23	SV613004	10ppm	10	200µL	500		JP	12/26/23
BNA CCV	SV613724	SV6128 11/12/13	2000ppm	20/20/20		20ppm			
PAH CCV	SV613725	SV613004	10ppm	10µL	200µL	500ppb	MeCl2	JP	12/27/23
PAH CCV	26							JP	1/3/24
PAH ICV	27	SV613007							1/4/24
PAH CCV	SV613728							JP	1/5/24
PAH CCV	SV613729							JP	1/8/24
PAH CCV	SV613730							JP	1/9/24
PAH CCV	SV61373[illegible]							JP	1/10/24
BNA CCV	SV613732	SV6128 11/12/13	2000ppm	20/20/20µL		20ppm			
BNA CCV	SV613733								1/11/24

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BOOK NO.

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	Analyte	Lot ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ICV	~~SV613804~~	SV613803	SV613004	10ppm	10µL	200µL	500ppb	MeCl2	JP	1/11/24
	PAH Spike	SV613802	SV613708	100ppm	2.5mL	50mL	5ppm	Acetone	JP	1/11/24
5	PAH ICV	SV613803	SV613007	10ppm	10µL	200µL	500ppb	MeCl2	JP	1/11/24
	PAH CCV	SV613804	SV613004	"	"	"	"	"	JP	1/12/24
	Surr Stock	SV613805								

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Warning
Notebook Label: 31887 Lot# A0209840 Expire: 09/2029 Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required. Mix is photosensative
Full label information for the chemical is provided on the outside package.
Receipt Date: Opened Date: Made in USA For Laboratory Use Only
1 mL

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PAH Surr	06	SV613805	1000ppm	1mL	100mL	10ppm	Acetone			
PAH ICV	SV613807	SV613807	100ppm	10µL	200	500ppb	MeCl2			
PAH CCV	SV613808	SV613004		"	"	"	"	JP	1/15/24	
PAH Working Stock	SV613809	SV613005	2000ppm	50mL	10mL	10ppm	MeCl2	JP	1/15/24	
	1	1 03	1000ppm	100µL	"	"	"	"	"	
BNA CCV	SV613810	SV613113	200ppm	200µL	200mL	20ppm	MeCl2	JP	01/16/24	
PAH CCV	11	SV613004	10ppm	10mL	1	500ppb	"			
Custom Stock	12									

20

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
H315 H335 H332 H302 H350 H350 P308 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Danger
S-15651 — 1 mL
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 222051034-01 — 5 comp(s)
Exp: Mar 14, 2024 — Storage: Freeze (<-10 °C)
PRODUCT OF THE USA — FOR LABORATORY USE ONLY

8270 Surr Std	13									

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
H315 H335 H332 H302 H351 H350 P308 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning
M-8270-SS — 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021323 — 6 comp(s)
Exp: Feb 15, 2033 — Storage: Ambient (>5 °C)
PRODUCT OF THE USA — FOR LABORATORY USE ONLY

25

Benzoic Acid Stock	14									

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Warning
Notebook Label: 31879 Lot# A0212174 Expire: 09/2027 Store: 10°C or colder
Benzoic Acid Mix
2000 µg/mL each in Methylene Chloride
Full label information for the chemical is provided on the outside package.
Receipt Date: Opened Date: Made in USA For Laboratory Use Only
1 mL

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8270 ICAL #1	15	SV613809	1000ppm	0.5mL	2.5mL	200 ppm	MeCl2			
#2	16	SV613813	"	1mL	5mL	"	"			
1		13	400ppm	0.25mL	"	"	"			
35 Benzoic Acid	17	14	2000 ppm	0.5mL	"	"	"			

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DISCLOSED TO AND UNDERSTOOD BY — DATE — WITNESS — DATE

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA 60	SV61390 1	SV61371123	200ppm	60/60/60 µL	200µL	60 ppm	MeCl2	JP	1/16/24
50	02			50/50/50		50			
35	03			35/35/35		35			
20	04			40/40/40	400µL	20			
10	05			10 µL	200µL	10			
5	06	SV613504	20ppm	50		5			
2	07			20		2			
1	08			10		1			
0.5	09			5		0.5			
ICV	10	SV61385/16/17	200ppm	20 each		20			
PAH CCV	SV61390	SV613004	10ppm	10µL		500ppb		JP	1/17/24
BNA CCV	SV61391 12	SV613711213	200ppm	20µL each		20ppm			
BNA CCV	13						MeCl2	JP	1/18/24
PAH CCV	14	SV613004	10ppm	10µL		500ppb			
PAH CCV	SV613915							JP	1/19/24
PAH CCV	SV613916							JP	1/22/24
PAH CCV	SV613917							JP	1/23/24
BNA CCV	SV613918	SV61371213	200ppm	20/20/20µL	200µL	20ppm	MeCl2	JP	1/23/24
PAH CCV	SV613919	SV613004	10ppm	10µL	200µL	500ppb	MeCl2	JP	1/24/24
PAH CCV	SV613920							JP	1/25/24
BNA 60	21	SV61371213	200ppm	60µL each		60 ppm			
50	22			50		50			
35	23			35		35			
20	24			40	400µL	20			
10	25			10	200µL	10			
5	26	SV613724	20ppm	50		5			
2	27			20		2			
1	28			10		1			
0.5	29			5		0.5			
ICV	30	SV61385/16/17	200ppm	20µL each		20			
BFTPP	31	SV612707	1000ppm	50µL	1mL	50ppm	MeCl2	JP	1/25/24
PAH CCV	SV613932	SV613904	10ppm	10µL	200µL	500ppb		JP	1/26/24
PAH CCV	33								1/29/24

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Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc.	Stock Vol	Final Vol	Final Conc.	Solvent	Init	Date
ISTD Mix	SVG140 01							JP	1/29/24
PAH ISTD	02	SVG140 01	4000ppm	0.5mL	50mL	40ppm	$MeCl_2$	JP	1/29/24
8270 Megamix	03								
Custom Std	04								
8270 Spike #1	05	SVG140 03	1000ppm	1mL	5mL	200ppm	Acetone	JP	1/29/24
↓ #2	06	04							
Benzoic Acid Spike	07	SVG138 1M	2000ppm	0.25mL	2.5mL	200ppm	Acetone	JP	1/30/24
PAH CCV	SVG140 08	SVG300M	10ppm	10µL	200µL	500ppb	$MeCl_2$		1/31/24
BNA CCV	09	SVG 138 15/16/17	200ppm	20/20/20µL		20ppm			
PAH CCV	SVG140 10	SVG300M	10ppm	10µL		500ppb			1/31/24
BNA 60	11	SVG137 1M3	200 ppm	60 µL each		60 ppm			
50	12			50		50			
35	13			35		35			
20	14			40	400 µL	20			
10	15			10	200 µL	10			
5	16	SVG140 1W	20	50		5			
2	17			20		2			
1	18			10		1			
0.5	19			5		0.5			
ICV	20	SVG138 15/16/17	200	20 each		20			

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

Z-014J 1 mL
Internal Standard Mix
4.0 mg/mL in CH2Cl2
Lot: 223061537 6 comp(s)
Exp: Jun 28, 2033 Storage: Ambient (>5 °C)/Sonicate
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com
31850 Warning Danger
Lot# A0204752
Expire 05/2025 Store 0°C or colder
8270 MegaMix®
500-1000 µg/mL each in Methylene Chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
Notebook Label
Receipt Date:
Opened Date:
Made in USA For Laboratory Use Only
1 mL

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

S-15651 1 mL
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 222051034-01 5 comp(s)
Exp: Mar 14, 2024 Storage: Freeze (<-10 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335 H332 H302 H350 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Danger

Work continued to Page

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Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final conc	Solvent	Init	Date
PAH 5000	SV0414 01	SV0138109	10ppm	500 µL	1mL	5000 ppb	MeCl2	JP	2/1/24
1000	02			100		1000			
500	03			50		500			
200	04			20		200			
100	05			10		100			
50	06	SV0414102	1ppm	50		50			
20	07			20		20			
10	08			10		10			
PAH ICV	09	SV0138107	10ppm	10 µL	200µL	500ppb			
PAH CCV	10	SV0138109	1	10		1		JP	2/2/24
BNA CCV	11	SV0138 1516117	200ppm	20/20/20		20 ppm		1	↓
PAH CCV	SV0414 12	SV0138109	10ppm	10		500ppb		JP	2/5/24
BNA CCV	13	SV0138 1516/17	200ppm	20/20/20		20 ppm		1	1
BNA CCV	14	1	1	1		↓		JP	2/6/24
PAH CCV	15	SV0138109	10ppm	10		500ppb		JP	2/6/24
8270 Surr Stock	16							JP	2/6/24

8270 Surr	17	SV0414116	400ppm	2mL	100 mL	800ppm	Acetone	JP	2/6/24
BNA CCV	SV0414 18	SV0138 1516/17	200ppm	20/20/20 µL	200µL	20ppm	MeCl2	JP	2/7/24
PAH CCV	19	SV0138109	10	10 µL	200µL	500ppb		1	1
PAH CCV	20	1	↓	1		1		JP	2/8/24
BNA CCV	21	SV0138 1516/17	200	20/20/20 µL		20 ppm		1	1
BNA CCV	22	1	↓	↓		↓		JP	2/9/24
PAH CCV	23	SV0138109	10	10µL		500ppb		1	1
PAH CCV	24	1	↓	↓		↓		JP	2/12/24
BNA CCV	25	SV0138 1516/17	200	↓		20ppm		1	1

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Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA CCV	SVQ4201	SVQ138 15/16/17	200 ppm	20/20/20 mL	200 µL	20 ppm	MeCl2	JP	2/13/24
PAH CCV	02	SVQ13809	10 ppm	10 µL	200 µL	500 ppb	"	"	"
ISTD Mix	03								
BNA ISTD	04	SVQ4203	2000 ppm	1 mL	8 mL	500 ppm	MeCl2		
PAH CCV	SVQ4205	SVQ13809	10 ppm	10 µL	200 µL	500 ppb	"	JP	2/14/24
BNA CCV	1 06	SVQ13 15/16/17	200 ppm	20/20/20 mL	"	20 ppm	"	"	"
B/N Surr Stock	SVQ4207							JP	2/15/24
PAH Surr	08	SVQ4207	1000 ppm	1 mL	100 µL	10 ppm	Acetone		
BNA 60	SVQ4209	SVQ13 14/15	200 ppm	60/60/60 µL	200 µL	60 ppm	MeCl2	JP	~~MeCl2~~
50	10			50/50/50		50			
35	11			35/35/35		35			
20	12			40/40/40	400 µL	20			
10	13			10/10/10	200 µL	10			
5	14		20 ppm	50		5			
2	15	SVQ4212		20		2			
1	16			10		1			
0.5	17			5		0.5			
ICV	18	SVQ 138 15/16/17	200 ppm	20/20/20 µL		20			
BNA CCV	SVQ4219					20	MeCl2	JP	2/16/24
PAH CCV	SVQ4220	SVQ13809	10 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	2/16/24
PAH CCV	SVQ4221							JP	2/20/24
BNA CCV	22	SVQ 13 15/16/17	200 ppm	20/20/20 µL		20 ppm			
PAH CCV	23	SVQ13809	10	10 µL		500 ppb		JP	2/21/24
DMA CCV	24							JP	2/20/24
BNA CCV	25	SVQ 15/16/17	200	20/20/20 mL		20 ppm		JP	2/23/24
PAH CCV	26	SVQ13809	10	10 µL		500 ppb			

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

Z-014J 1 mL
Internal Standard Mix
4.0 mg/mL in CH2Cl2
Lot: 223061537 6 comp(s)
Exp: Jun 28, 2033 Storage: Ambient (>5 °C)/Sonicate
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335
H332 H302
H351 H350
P338 P360
P331 P233
P262 P202
Refer to SDS
Signal Word: Warning

RESTEK 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com
31887
Lot# A0197489
Expire 03/2029 Store 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
Notebook Label
Warning
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

Work continued to Page

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Total Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

3-8-24
KDM

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\
Report Date/Time: Friday, March 08, 2024 09:50:27

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [	[STD/KED] Nebulizer (	06:59:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - C	QID	07:02:27 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - C	QID	07:04:35 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - C	QID	07:06:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - M	Mass Calibration and I	07:09:07 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [	[STD] Performance Ch	07:09:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [	[STD] Performance Ch	07:13:16 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [	[STD] Performance Ch	07:15:37 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Sample	07:22:55 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Sample	07:26:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Blank	07:31:39 Fri 08-Ma	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 1	07:33:58 Fri 08-Ma	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 2	07:36:16 Fri 08-Ma	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 3	07:38:36 Fri 08-Ma	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 4	07:40:55 Fri 08-Ma	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 5	07:43:14 Fri 08-Ma	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 6	07:45:33 Fri 08-Ma	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 7	07:47:51 Fri 08-Ma	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 1	07:51:00 Fri 08-Ma	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 2	07:54:09 Fri 08-Ma	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	07:56:27 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	07:59:36 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	08:02:44 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	MB0308D1 2X	08:05:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	SB0308D1 2X	08:08:13 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-01c 25X	08:12:09 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02c 25X	08:15:17 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-03c 25X	08:18:25 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-04c 25X	08:21:34 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-05c 25X	08:24:42 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cD 25X	08:27:58 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cL 125X	08:31:07 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cMS 25X	08:34:15 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	08:37:25 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	08:40:35 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	08:43:45 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cMSD 25X	08:47:34 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	MB0308WM1 2X	08:50:42 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	SB0308WM1 2X	08:53:51 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13b 2X	08:56:58 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bD 2X	09:00:06 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bL 10X	09:03:14 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bMS 2X	09:06:21 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bMSD 2X	09:09:29 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bPS 2X	09:12:37 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-01d 25X	09:15:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	09:18:56 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	09:22:05 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	09:25:15 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02d 25X	09:28:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	

02-208-03d 25X	09:31:55 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
02-208-04d 25X	09:35:03 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
02-208-05d 25X	09:38:11 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 6	09:41:21 Fri 08-MaQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 7	09:44:30 Fri 08-MaQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 8	09:47:40 Fri 08-MaQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, March 08, 2024 07:15:37
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\03MAR24\Y240308A\[STD] Performance Check.008
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	65637.7	65637.718	472.516	0.7	Standard
	In	114.9	427306.0	427306.003	11109.324	2.6	Standard
	U	238.1	276850.5	276850.513	2523.994	0.9	Standard
Ce	CeO	155.9	19655.8	0.023	0.000	0.8	Standard
Ce	Ce++	70.0	8192.5	0.010	0.000	1.3	Standard
	Bkgd	220.5	0.9	0.867	0.321	37.0	Standard
	Ce	139.9	859100.3	859100.276	9398.000	1.1	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.96	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.10	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Ammonia DRC - Hyperskimmer Park Voltage
0.98	Ammonia DRC - DRC Mode NEB
5.00	Helium KED - OmniRing Park Voltage
2.00	Helium KED - Hyperskimmer Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:09:07 Fri 08-Mar-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	7.025	1227	2062	0.706	
Mg	23.985	24.025	4587	2063	0.690	
In	114.904	114.925	22600	2066	0.707	
Pb	207.977	207.975	41058	2065	0.702	
U	238.050	238.025	47021	2065	0.706	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -3	57.935	Weighted Linear	0.07	0.00	0.999914
Ni -4	59.933	Weighted Linear	0.03	-0.00	0.999801
Ni -5	61.928	Weighted Linear	0.00	-0.00	0.999790
As-2	74.922	Weighted Linear	0.01	-0.00	0.999903
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sc-2	44.956	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, March 08, 2024 07:31:39
Report Date/Time: Friday, March 08, 2024 07:32:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Blank.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	114.9	22.0				ug/L		KED
|	**Ni -4**	60	52.7	4.0				ug/L		KED
|	**Ni -5**	62	10.3	14.8				ug/L		KED
|	**As-2**	75	5.0	52.9				ug/L		KED
	Y-1	89	60452.4	3.3				ug/L		KED
	Rh-1	103	73774.4	2.6				ug/L		KED
|>	**Ge-1**	72	45794.7	3.9				ug/L		KED
	In-1	115	46923.5	1.9				ug/L		KED
	Sc-2	45	7392.2	5.6				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, March 08, 2024 07:33:58
Report Date/Time: Friday, March 08, 2024 07:34:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	881.1	3.9				ug/L	115	KED
|	**Ni -4**	60	381.3	3.3				ug/L	53	KED
|	**Ni -5**	62	56.3	24.2				ug/L	10	KED
|	**As-2**	75	60.3	6.3				ug/L	5	KED
	Y-1	89	71033.5	0.8				ug/L	60452	KED
	Rh-1	103	85522.9	0.8				ug/L	73774	KED
| >	**Ge-1**	72	52790.4	0.8				ug/L	45795	KED
	In-1	115	54710.3	0.6				ug/L	46923	KED
	Sc-2	45	8645.6	1.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, March 08, 2024 07:36:16
Report Date/Time: Friday, March 08, 2024 07:37:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	1935.7	3.1				ug/L	115	KED
|	**Ni -4**	60	837.0	6.3				ug/L	53	KED
|	**Ni -5**	62	129.3	7.4				ug/L	10	KED
|	**As-2**	75	142.7	7.0	**0.5000**	0.038	7.7	ug/L	5	KED
	Y-1	89	69713.7	1.1				ug/L	60452	KED
	Rh-1	103	83762.5	1.1				ug/L	73774	KED
| >	**Ge-1**	72	51825.8	0.5				ug/L	45795	KED
	In-1	115	53312.9	1.7				ug/L	46923	KED
	Sc-2	45	8434.5	1.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, March 08, 2024 07:38:36
Report Date/Time: Friday, March 08, 2024 07:39:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 3.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	7335.3	1.5	**2.0000**	0.022	1.1	ug/L	115	KED
|	**Ni -4**	60	3264.4	1.8	**2.0000**	0.029	1.4	ug/L	53	KED
|	**Ni -5**	62	504.7	5.6	**2.0000**	0.127	6.3	ug/L	10	KED
|	**As-2**	75	580.0	1.8	**2.0186**	0.041	2.1	ug/L	5	KED
	Y-1	89	69928.7	0.2				ug/L	60452	KED
	Rh-1	103	84015.7	0.6				ug/L	73774	KED
|>	**Ge-1**	72	51954.0	0.8				ug/L	45795	KED
	In-1	115	54159.8	1.3				ug/L	46923	KED
	Sc-2	45	8488.9	1.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, March 08, 2024 07:40:55
Report Date/Time: Friday, March 08, 2024 07:41:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 4.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	18053.8	0.8	**5.0330**	0.033	0.7	ug/L	115	KED
|	**Ni -4**	60	7996.6	2.7	**5.0113**	0.153	3.1	ug/L	53	KED
|	**Ni -5**	62	1239.1	3.1	**5.0149**	0.168	3.3	ug/L	10	KED
|	**As-2**	75	1451.7	3.9	**5.0888**	0.210	4.1	ug/L	5	KED
	Y-1	89	68473.0	0.7				ug/L	60452	KED
	Rh-1	103	82504.9	0.8				ug/L	73774	KED
|>	**Ge-1**	72	50913.6	0.3				ug/L	45795	KED
	In-1	115	53210.7	1.4				ug/L	46923	KED
	Sc-2	45	8377.5	0.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, March 08, 2024 07:43:14
Report Date/Time: Friday, March 08, 2024 07:44:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 5.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	68298.1	0.4	**19.8164**	0.136	0.7	ug/L	115	KED
|	**Ni -4**	60	29606.6	0.2	**19.4889**	0.102	0.5	ug/L	53	KED
|	**Ni -5**	62	4649.8	2.6	**19.6514**	0.552	2.8	ug/L	10	KED
|	**As-2**	75	5495.4	1.3	**19.8825**	0.198	1.0	ug/L	5	KED
	Y-1	89	66872.2	1.0				ug/L	60452	KED
	Rh-1	103	79399.4	0.7				ug/L	73774	KED
|>	**Ge-1**	72	49483.2	0.3				ug/L	45795	KED
	In-1	115	51420.0	0.3				ug/L	46923	KED
	Sc-2	45	8094.3	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, March 08, 2024 07:45:33
Report Date/Time: Friday, March 08, 2024 07:46:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 6.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	129161.4	0.4	**39.6805**	0.335	0.8	ug/L	115	KED
|	**Ni -4**	60	57068.1	0.9	**39.7416**	0.367	0.9	ug/L	53	KED
|	**Ni -5**	62	8717.3	1.2	**39.1968**	0.261	0.7	ug/L	10	KED
|	**As-2**	75	10516.2	0.8	**40.0847**	0.083	0.2	ug/L	5	KED
	Y-1	89	63347.1	0.4				ug/L	60452	KED
	Rh-1	103	75236.6	0.9				ug/L	73774	KED
|>	**Ge-1**	72	46940.3	0.8				ug/L	45795	KED
	In-1	115	48940.6	0.6				ug/L	46923	KED
	Sc-2	45	7588.3	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, March 08, 2024 07:47:51
Report Date/Time: Friday, March 08, 2024 07:48:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 7.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	313775.7	0.1	**98.3214**	0.451	0.5	ug/L	115	KED
|	**Ni -4**	60	138100.3	0.6	**98.1356**	0.798	0.8	ug/L	53	KED
|	**Ni -5**	62	21301.9	1.2	**97.8292**	0.820	0.8	ug/L	10	KED
|	**As-2**	75	25750.5	0.9	**99.6358**	0.362	0.4	ug/L	5	KED
	Y-1	89	62917.9	0.4				ug/L	60452	KED
	Rh-1	103	74758.4	0.2				ug/L	73774	KED
|>	**Ge-1**	72	46285.9	0.6				ug/L	45795	KED
	In-1	115	49301.0	0.9				ug/L	46923	KED
	Sc-2	45	7453.3	2.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, March 08, 2024 07:51:00
Report Date/Time: Friday, March 08, 2024 07:51:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 1.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	154625.3	0.9	**49.9971**	0.102	0.2	ug/L	115	KED
|	**Ni -4**	60	68216.5	0.4	**50.0274**	0.341	0.7	ug/L	53	KED
|	**Ni -5**	62	10600.3	2.4	**50.2361**	0.754	1.5	ug/L	10	KED
|	**As-2**	75	12452.1	0.3	**49.7423**	0.673	1.4	ug/L	5	KED
	Y-1	89	61657.5	1.2				ug/L	60452	KED
	Rh-1	103	72689.1	0.2				ug/L	73774	KED
| >	**Ge-1**	72	44835.9	1.0				ug/L	45795	KED
	In-1	115	47755.2	0.6				ug/L	46923	KED
	Sc-2	45	7421.9	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	99.994	
|	Ni -4	60	100.055	
|	Ni -5	62	100.472	
|	As-2	75	99.485	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		97.906
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, March 08, 2024 07:54:09
Report Date/Time: Friday, March 08, 2024 07:54:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 2.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	129.9	7.1	**-0.0020**	0.003	149.0	ug/L	115	KED
|	**Ni -4**	60	56.0	12.5	**0.0058**	0.005	85.9	ug/L	53	KED
|	**Ni -5**	62	11.3	22.2	**0.0187**	0.012	62.5	ug/L	10	KED
|	**As-2**	75	7.3	61.5	**0.0255**	0.018	69.2	ug/L	5	KED
	Y-1	89	62212.2	0.8				ug/L	60452	KED
	Rh-1	103	73567.9	0.6				ug/L	73774	KED
|>	**Ge-1**	72	45715.7	0.1				ug/L	45795	KED
	In-1	115	48859.3	0.6				ug/L	46923	KED
	Sc-2	45	7417.9	1.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.828
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 07:56:27
Report Date/Time: Friday, March 08, 2024 07:57:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	119329.7	0.3	**39.7916**	0.236	0.6	ug/L	115	KED
|	**Ni -4**	60	52361.1	0.3	**39.6011**	0.220	0.6	ug/L	53	KED
|	**Ni -5**	62	8102.6	1.4	**39.6050**	0.433	1.1	ug/L	10	KED
|	**As-2**	75	9859.4	1.6	**40.6207**	0.494	1.2	ug/L	5	KED
	Y-1	89	59544.2	0.5				ug/L	60452	KED
	Rh-1	103	69801.5	0.8				ug/L	73774	KED
|>	**Ge-1**	72	43466.4	0.4				ug/L	45795	KED
	In-1	115	46510.6	0.5				ug/L	46923	KED
	Sc-2	45	7194.5	1.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	99.479	
|	Ni -4	60	99.003	
|	Ni -5	62	99.013	
|	As-2	75	101.552	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		94.916
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 07:59:36
Report Date/Time: Friday, March 08, 2024 08:00:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	61089.4	1.0	**19.6476**	0.176	0.9	ug/L	115	KED
|	**Ni -4**	60	26817.5	0.1	**19.5668**	0.077	0.4	ug/L	53	KED
|	**Ni -5**	62	4236.3	2.4	**19.9768**	0.432	2.2	ug/L	10	KED
|	**As-2**	75	4993.9	1.5	**19.8652**	0.252	1.3	ug/L	5	KED
	Y-1	89	62111.4	0.9				ug/L	60452	KED
	Rh-1	103	71981.6	0.3				ug/L	73774	KED
| >	**Ge-1**	72	45015.5	0.3				ug/L	45795	KED
	In-1	115	48137.4	0.5				ug/L	46923	KED
	Sc-2	45	7359.2	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	98.238	
|	Ni -4	60	97.834	
|	Ni -5	62	99.884	
|	As-2	75	99.326	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		98.298
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 08:02:44
Report Date/Time: Friday, March 08, 2024 08:03:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	112.8	14.5	**-0.0073**	0.005	73.4	ug/L	115	KED
|	**Ni -4**	60	43.3	7.4	**-0.0032**	0.002	76.7	ug/L	53	KED
|	**Ni -5**	62	7.0	14.3	**-0.0014**	0.005	345.5	ug/L	10	KED
|	**As-2**	75	5.0	40.0	**0.0164**	0.008	47.3	ug/L	5	KED
	Y-1	89	61865.0	1.0				ug/L	60452	KED
	Rh-1	103	72635.9	0.8				ug/L	73774	KED
| >	**Ge-1**	72	45654.8	0.6				ug/L	45795	KED
	In-1	115	48062.5	0.5				ug/L	46923	KED
	Sc-2	45	7394.6	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		99.695
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: MB0308D1 2X

Sample Date/Time: Friday, March 08, 2024 08:05:04
Report Date/Time: Friday, March 08, 2024 08:05:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\MB0308D1 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	113.6	7.2	**-0.0070**	0.003	37.5	ug/L	115	KED
|	**Ni -4**	60	54.3	8.7	**0.0048**	0.003	70.8	ug/L	53	KED
|	**Ni -5**	62	9.3	22.3	**0.0097**	0.010	100.8	ug/L	10	KED
|	**As-2**	75	3.3	75.5	**0.0099**	0.010	100.1	ug/L	5	KED
	Y-1	89	62165.0	1.1				ug/L	60452	KED
	Rh-1	103	72897.2	0.7				ug/L	73774	KED
|>	**Ge-1**	72	45485.0	0.0				ug/L	45795	KED
	In-1	115	48273.1	0.2				ug/L	46923	KED
	Sc-2	45	7389.6	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.324
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: SB0308D1 2X

Sample Date/Time: Friday, March 08, 2024 08:08:13
Report Date/Time: Friday, March 08, 2024 08:09:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\SB0308D1 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	116768.2	0.5	**39.4476**	0.380	1.0	ug/L	115	KED
|	**Ni -4**	60	51383.6	0.1	**39.3705**	0.130	0.3	ug/L	53	KED
|	**Ni -5**	62	8017.2	0.8	**39.7031**	0.475	1.2	ug/L	10	KED
|	**As-2**	75	9686.6	0.9	**40.4341**	0.522	1.3	ug/L	5	KED
	Y-1	89	59459.5	0.7				ug/L	60452	KED
	Rh-1	103	69457.1	0.8				ug/L	73774	KED
|>	**Ge-1**	72	42904.3	0.4				ug/L	45795	KED
	In-1	115	46166.0	1.2				ug/L	46923	KED
	Sc-2	45	7029.1	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		93.688
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-01c 25X

Sample Date/Time: Friday, March 08, 2024 08:12:09
Report Date/Time: Friday, March 08, 2024 08:12:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-01c 25X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	548.1	3.0	**0.1762**	0.013	7.5	ug/L	115	KED
|	**Ni -4**	60	239.7	17.7	**0.1824**	0.035	19.0	ug/L	53	KED
|	**Ni -5**	62	48.3	29.9	**0.2494**	0.085	34.0	ug/L	10	KED
|	**As-2**	75	14.7	41.7	**0.0686**	0.028	41.1	ug/L	5	KED
	Y-1	89	50308.5	3.5				ug/L	60452	KED
	Rh-1	103	54787.2	2.9				ug/L	73774	KED
|>	**Ge-1**	72	36294.4	3.1				ug/L	45795	KED
	In-1	115	37344.5	1.7				ug/L	46923	KED
	Sc-2	45	6550.8	3.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		79.255
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02c 25X

Sample Date/Time: Friday, March 08, 2024 08:15:17
Report Date/Time: Friday, March 08, 2024 08:16:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02c 25X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	212.2	3.1	**0.0324**	0.002	5.6	ug/L	115	KED
|	**Ni -4**	60	89.7	12.4	**0.0381**	0.009	24.7	ug/L	53	KED
|	**Ni -5**	62	22.7	6.7	**0.0845**	0.009	10.6	ug/L	10	KED
|	**As-2**	75	27.3	35.9	**0.1173**	0.044	37.4	ug/L	5	KED
	Y-1	89	57385.0	1.3				ug/L	60452	KED
	Rh-1	103	60976.9	0.8				ug/L	73774	KED
| >	**Ge-1**	72	40700.6	0.9				ug/L	45795	KED
	In-1	115	41144.8	1.6				ug/L	46923	KED
	Sc-2	45	7668.7	1.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		88.876
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-03c 25X

Sample Date/Time: Friday, March 08, 2024 08:18:25
Report Date/Time: Friday, March 08, 2024 08:19:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-03c 25X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	180.7	5.2	**0.0212**	0.004	16.9	ug/L	115	KED
|	**Ni -4**	60	99.7	7.6	**0.0462**	0.007	14.4	ug/L	53	KED
|	**Ni -5**	62	23.3	22.0	**0.0879**	0.027	30.3	ug/L	10	KED
|	**As-2**	75	22.3	11.3	**0.0951**	0.011	11.4	ug/L	5	KED
	Y-1	89	57230.1	0.6				ug/L	60452	KED
	Rh-1	103	60795.8	1.6				ug/L	73774	KED
|>	**Ge-1**	72	40686.9	0.7				ug/L	45795	KED
	In-1	115	40964.6	0.8				ug/L	46923	KED
	Sc-2	45	7565.0	2.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		88.846
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-04c 25X

Sample Date/Time: Friday, March 08, 2024 08:21:34
Report Date/Time: Friday, March 08, 2024 08:22:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-04c 25X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	867.2	3.7	**0.2197**	0.008	3.8	ug/L	115	KED
|	**Ni -4**	60	233.7	3.9	**0.1262**	0.007	5.4	ug/L	53	KED
|	**Ni -5**	62	34.3	11.8	**0.1186**	0.018	15.5	ug/L	10	KED
|	**As-2**	75	169.0	8.2	**0.6295**	0.055	8.8	ug/L	5	KED
	Y-1	89	64215.0	1.2				ug/L	60452	KED
	Rh-1	103	73070.4	0.1				ug/L	73774	KED
|>	**Ge-1**	72	47853.7	0.6				ug/L	45795	KED
	In-1	115	48399.3	0.5				ug/L	46923	KED
	Sc-2	45	8072.3	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		104.496
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-05c 25X

Sample Date/Time: Friday, March 08, 2024 08:24:42
Report Date/Time: Friday, March 08, 2024 08:25:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-05c 25X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	188.9	8.0	**0.0230**	0.005	20.9	ug/L	115	KED
|	**Ni -4**	60	90.3	10.8	**0.0374**	0.008	22.0	ug/L	53	KED
|	**Ni -5**	62	20.3	31.2	**0.0703**	0.032	45.7	ug/L	10	KED
|	**As-2**	75	28.7	8.8	**0.1208**	0.011	9.3	ug/L	5	KED
	Y-1	89	58729.8	0.2				ug/L	60452	KED
	Rh-1	103	61698.3	0.5				ug/L	73774	KED
|>	**Ge-1**	72	41395.6	0.7				ug/L	45795	KED
	In-1	115	41514.4	0.8				ug/L	46923	KED
	Sc-2	45	7832.1	1.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		90.394
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cD 25X

Sample Date/Time: Friday, March 08, 2024 08:27:58
Report Date/Time: Friday, March 08, 2024 08:28:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cD 25X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	221.2	7.8	**0.0373**	0.007	19.1	ug/L	115	KED
|	**Ni -4**	60	102.0	5.5	**0.0496**	0.004	8.3	ug/L	53	KED
|	**Ni -5**	62	18.0	48.4	**0.0611**	0.043	70.5	ug/L	10	KED
|	**As-2**	75	31.3	21.7	**0.1369**	0.026	19.0	ug/L	5	KED
	Y-1	89	55585.0	2.7				ug/L	60452	KED
	Rh-1	103	59152.6	2.5				ug/L	73774	KED
|>	**Ge-1**	72	39909.7	3.0				ug/L	45795	KED
	In-1	115	39672.3	2.0				ug/L	46923	KED
	Sc-2	45	7459.9	2.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		87.149
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cL 125X

Sample Date/Time: Friday, March 08, 2024 08:31:07
Report Date/Time: Friday, March 08, 2024 08:31:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cL 125X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	277.0	4.2	**0.0388**	0.004	9.1	ug/L	115	KED
|	**Ni -4**	60	110.3	7.0	**0.0396**	0.005	12.8	ug/L	53	KED
|	**Ni -5**	62	30.0	39.3	**0.0962**	0.051	53.3	ug/L	10	KED
|	**As-2**	75	8.7	26.6	**0.0285**	0.008	29.8	ug/L	5	KED
	Y-1	89	66305.9	1.1				ug/L	60452	KED
	Rh-1	103	73797.5	0.5				ug/L	73774	KED
|>	**Ge-1**	72	49006.6	0.2				ug/L	45795	KED
	In-1	115	48338.2	0.4				ug/L	46923	KED
	Sc-2	45	8559.9	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		107.014
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cMS 25X

Sample Date/Time: Friday, March 08, 2024 08:34:15
Report Date/Time: Friday, March 08, 2024 08:35:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cMS 25X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	110326.8	0.8	**37.6401**	0.363	1.0	ug/L	115	KED
|	**Ni -4**	60	48213.9	1.2	**37.3084**	0.515	1.4	ug/L	53	KED
|	**Ni -5**	62	7378.9	1.0	**36.9022**	0.376	1.0	ug/L	10	KED
|	**As-2**	75	9661.9	0.8	**40.7324**	0.478	1.2	ug/L	5	KED
	Y-1	89	59666.7	0.6				ug/L	60452	KED
	Rh-1	103	62495.1	0.1				ug/L	73774	KED
|>	**Ge-1**	72	42481.4	0.4				ug/L	45795	KED
	In-1	115	42198.8	0.3				ug/L	46923	KED
	Sc-2	45	7917.5	1.8				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		92.765
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 08:37:25
Report Date/Time: Friday, March 08, 2024 08:38:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	131327.0	3.0	**40.6770**	0.407	1.0	ug/L	115	KED
|	**Ni -4**	60	57413.2	2.7	**40.3339**	0.206	0.5	ug/L	53	KED
|	**Ni -5**	62	8914.4	1.8	**40.4827**	0.446	1.1	ug/L	10	KED
|	**As-2**	75	10697.3	3.1	**40.9385**	0.464	1.1	ug/L	5	KED
	Y-1	89	62207.9	2.4				ug/L	60452	KED
	Rh-1	103	72869.8	2.3				ug/L	73774	KED
|>	**Ge-1**	72	46790.9	2.2				ug/L	45795	KED
	In-1	115	47314.2	2.0				ug/L	46923	KED
	Sc-2	45	7918.5	2.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	101.692	
|	Ni -4	60	100.835	
|	Ni -5	62	101.207	
|	As-2	75	102.346	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		102.175
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 08:40:35
Report Date/Time: Friday, March 08, 2024 08:41:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	66575.0	3.5	**20.1916**	0.193	1.0	ug/L	115	KED
|	**Ni -4**	60	29153.7	3.5	**20.0592**	0.214	1.1	ug/L	53	KED
|	**Ni -5**	62	4482.7	3.5	**19.9339**	0.179	0.9	ug/L	10	KED
|	**As-2**	75	5369.7	5.8	**20.1345**	0.684	3.4	ug/L	5	KED
	Y-1	89	63153.7	2.7				ug/L	60452	KED
	Rh-1	103	74727.4	2.6				ug/L	73774	KED
| >	**Ge-1**	72	47731.0	2.6				ug/L	45795	KED
	In-1	115	48288.6	1.8				ug/L	46923	KED
	Sc-2	45	8139.0	3.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	100.958	
|	Ni -4	60	100.296	
|	Ni -5	62	99.669	
|	As-2	75	100.673	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		104.228
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 08:43:45
Report Date/Time: Friday, March 08, 2024 08:44:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	152.2	1.5	**0.0032**	0.001	38.2	ug/L	115	KED
|	**Ni -4**	60	77.3	8.6	**0.0191**	0.006	30.7	ug/L	53	KED
|	**Ni -5**	62	12.0	46.4	**0.0191**	0.023	122.1	ug/L	10	KED
|	**As-2**	75	3.7	31.5	**0.0106**	0.004	41.5	ug/L	5	KED
	Y-1	89	62977.2	2.6				ug/L	60452	KED
	Rh-1	103	74131.3	2.6				ug/L	73774	KED
|>	**Ge-1**	72	47616.6	3.2				ug/L	45795	KED
	In-1	115	47623.7	2.4				ug/L	46923	KED
	Sc-2	45	8079.0	4.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		103.978
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cMSD 25X

Sample Date/Time: Friday, March 08, 2024 08:47:34
Report Date/Time: Friday, March 08, 2024 08:48:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cMSD 25X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	102000.6	3.8	**38.7290**	0.663	1.7	ug/L	115	KED
|	**Ni -4**	60	44609.6	3.8	**38.4166**	0.616	1.6	ug/L	53	KED
|	**Ni -5**	62	6896.0	4.3	**38.3780**	0.757	2.0	ug/L	10	KED
|	**As-2**	75	9155.6	3.4	**42.9559**	0.380	0.9	ug/L	5	KED
	Y-1	89	52870.7	2.3				ug/L	60452	KED
	Rh-1	103	55966.5	2.4				ug/L	73774	KED
|>	**Ge-1**	72	38164.9	2.5				ug/L	45795	KED
	In-1	115	38097.1	1.4				ug/L	46923	KED
	Sc-2	45	7204.2	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		83.339
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: MB0308WM1 2X

Sample Date/Time: Friday, March 08, 2024 08:50:42
Report Date/Time: Friday, March 08, 2024 08:51:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\MB0308WM1 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	139.1	4.0	**-0.0027**	0.002	72.4	ug/L	115	KED
|	**Ni -4**	60	59.0	4.5	**0.0045**	0.001	31.6	ug/L	53	KED
|	**Ni -5**	62	15.3	10.0	**0.0314**	0.007	21.2	ug/L	10	KED
|	**As-2**	75	7.0	57.1	**0.0219**	0.014	65.9	ug/L	5	KED
	Y-1	89	65852.8	1.1				ug/L	60452	KED
	Rh-1	103	76842.8	0.2				ug/L	73774	KED
|>	**Ge-1**	72	49839.1	0.8				ug/L	45795	KED
	In-1	115	49375.3	0.8				ug/L	46923	KED
	Sc-2	45	8403.5	1.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.832
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: SB0308WM1 2X

Sample Date/Time: Friday, March 08, 2024 08:53:51
Report Date/Time: Friday, March 08, 2024 08:54:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\SB0308WM1 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	159538.4	0.6	**47.5731**	0.583	1.2	ug/L	115	KED
|	**Ni -4**	60	70385.3	0.4	**47.6013**	0.494	1.0	ug/L	53	KED
|	**Ni -5**	62	10760.4	0.7	**47.0310**	0.317	0.7	ug/L	10	KED
|	**As-2**	75	12860.8	0.8	**47.3779**	0.747	1.6	ug/L	5	KED
	Y-1	89	64531.1	1.0				ug/L	60452	KED
	Rh-1	103	74931.3	0.5				ug/L	73774	KED
| >	**Ge-1**	72	48618.3	1.0				ug/L	45795	KED
	In-1	115	48687.2	0.6				ug/L	46923	KED
	Sc-2	45	8270.7	0.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		106.166
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13b 2X

Sample Date/Time: Friday, March 08, 2024 08:56:58
Report Date/Time: Friday, March 08, 2024 08:57:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13b 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	2162.2	2.4	**0.5925**	0.019	3.3	ug/L	115	KED
|	**Ni -4**	60	851.4	5.0	**0.5332**	0.031	5.8	ug/L	53	KED
|	**Ni -5**	62	141.3	11.9	**0.5748**	0.071	12.3	ug/L	10	KED
|	**As-2**	75	145.3	1.7	**0.5241**	0.006	1.1	ug/L	5	KED
	Y-1	89	66155.2	0.9				ug/L	60452	KED
	Rh-1	103	75702.7	0.8				ug/L	73774	KED
|>	**Ge-1**	72	49357.8	0.7				ug/L	45795	KED
	In-1	115	48855.9	0.5				ug/L	46923	KED
	Sc-2	45	8478.8	0.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		107.781
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bD 2X

Sample Date/Time: Friday, March 08, 2024 09:00:06
Report Date/Time: Friday, March 08, 2024 09:00:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bD 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	2240.0	0.4	**0.6089**	0.003	0.5	ug/L	115	KED
|	**Ni -4**	60	840.7	4.9	**0.5206**	0.029	5.6	ug/L	53	KED
|	**Ni -5**	62	110.7	5.8	**0.4381**	0.026	5.9	ug/L	10	KED
|	**As-2**	75	144.3	7.2	**0.5155**	0.038	7.5	ug/L	5	KED
	Y-1	89	66908.3	0.6				ug/L	60452	KED
	Rh-1	103	76899.1	0.8				ug/L	73774	KED
|>	**Ge-1**	72	49842.5	0.3				ug/L	45795	KED
	In-1	115	50073.0	0.7				ug/L	46923	KED
	Sc-2	45	8656.3	2.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.839
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bL 10X

Sample Date/Time: Friday, March 08, 2024 09:03:14
Report Date/Time: Friday, March 08, 2024 09:04:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bL 10X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	1002.2	3.6	**0.2435**	0.010	4.0	ug/L	115	KED
|	**Ni -4**	60	440.0	4.5	**0.2509**	0.012	4.9	ug/L	53	KED
|	**Ni -5**	62	71.0	11.5	**0.2636**	0.033	12.6	ug/L	10	KED
|	**As-2**	75	27.3	22.4	**0.0933**	0.022	23.6	ug/L	5	KED
	Y-1	89	66676.3	1.3				ug/L	60452	KED
	Rh-1	103	77359.6	1.7				ug/L	73774	KED
|>	**Ge-1**	72	50724.9	0.4				ug/L	45795	KED
	In-1	115	49867.2	0.5				ug/L	46923	KED
	Sc-2	45	8551.6	0.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		110.766
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bMS 2X

Sample Date/Time: Friday, March 08, 2024 09:06:21
Report Date/Time: Friday, March 08, 2024 09:07:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bMS 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	167267.9	0.7	**49.2622**	0.397	0.8	ug/L	115	KED
|	**Ni -4**	60	73222.8	0.3	**48.9083**	0.119	0.2	ug/L	53	KED
|	**Ni -5**	62	11231.1	0.4	**48.4832**	0.115	0.2	ug/L	10	KED
|	**As-2**	75	13741.9	0.6	**49.9959**	0.238	0.5	ug/L	5	KED
	Y-1	89	65923.8	1.0				ug/L	60452	KED
	Rh-1	103	75239.3	0.6				ug/L	73774	KED
| >	**Ge-1**	72	49224.7	0.2				ug/L	45795	KED
	In-1	115	49044.3	0.5				ug/L	46923	KED
	Sc-2	45	8376.8	1.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		107.490
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bMSD 2X

Sample Date/Time: Friday, March 08, 2024 09:09:29
Report Date/Time: Friday, March 08, 2024 09:10:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bMSD 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	173684.4	0.3	**50.4670**	0.148	0.3	ug/L	115	KED
|	**Ni -4**	60	76120.9	0.9	**50.1637**	0.469	0.9	ug/L	53	KED
|	**Ni -5**	62	11647.4	1.1	**49.6075**	0.561	1.1	ug/L	10	KED
|	**As-2**	75	14394.6	0.6	**51.6687**	0.318	0.6	ug/L	5	KED
	Y-1	89	66991.7	1.5				ug/L	60452	KED
	Rh-1	103	76555.6	0.8				ug/L	73774	KED
| >	**Ge-1**	72	49893.3	0.1				ug/L	45795	KED
	In-1	115	49818.5	1.2				ug/L	46923	KED
	Sc-2	45	8610.6	0.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		108.950
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bPS 2X

Sample Date/Time: Friday, March 08, 2024 09:12:37
Report Date/Time: Friday, March 08, 2024 09:13:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bPS 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	159056.3	0.9	**51.5302**	0.699	1.4	ug/L	115	KED
|	**Ni -4**	60	68716.9	0.8	**50.4902**	0.676	1.3	ug/L	53	KED
|	**Ni -5**	62	10646.6	2.5	**50.5616**	1.535	3.0	ug/L	10	KED
|	**As-2**	75	12786.4	0.3	**51.1714**	0.474	0.9	ug/L	5	KED
	Y-1	89	60598.3	0.1				ug/L	60452	KED
	Rh-1	103	69076.6	0.4				ug/L	73774	KED
| >	**Ge-1**	72	44751.3	0.6				ug/L	45795	KED
	In-1	115	45369.9	0.7				ug/L	46923	KED
	Sc-2	45	7777.1	1.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		97.722
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-01d 25X

Sample Date/Time: Friday, March 08, 2024 09:15:46
Report Date/Time: Friday, March 08, 2024 09:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-01d 25X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	741.3	6.2	**0.1938**	0.014	7.2	ug/L	115	KED
|	**Ni -4**	60	302.0	12.9	**0.1844**	0.027	14.7	ug/L	53	KED
|	**Ni -5**	62	51.3	7.9	**0.2066**	0.019	9.2	ug/L	10	KED
|	**As-2**	75	19.7	23.5	**0.0743**	0.018	23.8	ug/L	5	KED
	Y-1	89	61892.1	1.1				ug/L	60452	KED
	Rh-1	103	66880.9	0.5				ug/L	73774	KED
|>	**Ge-1**	72	45371.6	0.7				ug/L	45795	KED
	In-1	115	44393.7	0.3				ug/L	46923	KED
	Sc-2	45	8351.1	2.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.076
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 09:18:56
Report Date/Time: Friday, March 08, 2024 09:19:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	142364.5	3.0	**41.1161**	0.933	2.3	ug/L	115	KED
|	**Ni -4**	60	61995.3	2.8	**40.6092**	0.806	2.0	ug/L	53	KED
|	**Ni -5**	62	9525.8	3.6	**40.3232**	0.954	2.4	ug/L	10	KED
|	**As-2**	75	11297.1	1.1	**40.3165**	0.203	0.5	ug/L	5	KED
	Y-1	89	65653.9	2.3				ug/L	60452	KED
	Rh-1	103	77023.5	2.3				ug/L	73774	KED
| >	**Ge-1**	72	50183.7	1.4				ug/L	45795	KED
	In-1	115	49376.7	2.1				ug/L	46923	KED
	Sc-2	45	8654.6	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	102.790	
|	Ni -4	60	101.523	
|	Ni -5	62	100.808	
|	As-2	75	100.791	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		109.584
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 09:22:05
Report Date/Time: Friday, March 08, 2024 09:22:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	70522.6	3.2	**20.3977**	0.126	0.6	ug/L	115	KED
|	**Ni -4**	60	30979.9	3.5	**20.3258**	0.169	0.8	ug/L	53	KED
|	**Ni -5**	62	4701.4	4.4	**19.9331**	0.394	2.0	ug/L	10	KED
|	**As-2**	75	5588.8	3.1	**19.9920**	0.132	0.7	ug/L	5	KED
	Y-1	89	66211.8	2.6				ug/L	60452	KED
	Rh-1	103	77761.8	2.4				ug/L	73774	KED
|>	**Ge-1**	72	50056.9	2.8				ug/L	45795	KED
	In-1	115	49880.6	1.8				ug/L	46923	KED
	Sc-2	45	8869.8	5.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	101.989	
|	Ni -4	60	101.629	
|	Ni -5	62	99.665	
|	As-2	75	99.960	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		109.307
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 09:25:15
Report Date/Time: Friday, March 08, 2024 09:26:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	155.8	6.0	**0.0022**	0.003	129.6	ug/L	115	KED
|	**Ni -4**	60	71.7	14.0	**0.0127**	0.005	41.2	ug/L	53	KED
|	**Ni -5**	62	10.3	24.4	**0.0100**	0.010	98.7	ug/L	10	KED
|	**As-2**	75	4.0	50.0	**0.0111**	0.007	63.9	ug/L	5	KED
	Y-1	89	65022.0	2.5				ug/L	60452	KED
	Rh-1	103	76861.3	2.3				ug/L	73774	KED
|>	**Ge-1**	72	49872.0	3.1				ug/L	45795	KED
	In-1	115	48979.8	1.5				ug/L	46923	KED
	Sc-2	45	8624.9	3.8				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.903
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02d 25X

Sample Date/Time: Friday, March 08, 2024 09:28:46
Report Date/Time: Friday, March 08, 2024 09:29:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02d 25X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	283.0	1.9	**0.0605**	0.001	1.9	ug/L	115	KED
|	**Ni -4**	60	124.3	5.5	**0.0688**	0.004	5.9	ug/L	53	KED
|	**Ni -5**	62	23.0	7.5	**0.0894**	0.007	7.3	ug/L	10	KED
|	**As-2**	75	29.3	16.1	**0.1292**	0.019	14.7	ug/L	5	KED
	Y-1	89	54799.3	3.9				ug/L	60452	KED
	Rh-1	103	58243.9	2.6				ug/L	73774	KED
|>	**Ge-1**	72	39609.5	2.8				ug/L	45795	KED
	In-1	115	39112.1	2.3				ug/L	46923	KED
	Sc-2	45	7674.1	3.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		86.494
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-03d 25X

Sample Date/Time: Friday, March 08, 2024 09:31:55
Report Date/Time: Friday, March 08, 2024 09:32:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-03d 25X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	234.8	1.0	**0.0325**	0.001	3.7	ug/L	115	KED
|	**Ni -4**	60	107.3	12.0	**0.0440**	0.010	22.1	ug/L	53	KED
|	**Ni -5**	62	22.0	7.9	**0.0700**	0.009	12.2	ug/L	10	KED
|	**As-2**	75	24.7	26.1	**0.0950**	0.026	27.2	ug/L	5	KED
	Y-1	89	61894.5	0.6				ug/L	60452	KED
	Rh-1	103	65113.7	0.3				ug/L	73774	KED
|>	**Ge-1**	72	45009.1	0.9				ug/L	45795	KED
	In-1	115	42930.7	0.8				ug/L	46923	KED
	Sc-2	45	8621.9	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		98.285
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-04d 25X

Sample Date/Time: Friday, March 08, 2024 09:35:03
Report Date/Time: Friday, March 08, 2024 09:35:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-04d 25X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	999.9	6.8	**0.2410**	0.018	7.4	ug/L	115	KED
|	**Ni -4**	60	276.7	1.8	**0.1439**	0.004	2.9	ug/L	53	KED
|	**Ni -5**	62	41.3	5.0	**0.1383**	0.010	7.2	ug/L	10	KED
|	**As-2**	75	165.3	4.9	**0.5772**	0.032	5.6	ug/L	5	KED
	Y-1	89	67827.0	0.6				ug/L	60452	KED
	Rh-1	103	76679.2	0.4				ug/L	73774	KED
|>	**Ge-1**	72	51030.0	0.8				ug/L	45795	KED
	In-1	115	49694.3	0.5				ug/L	46923	KED
	Sc-2	45	9026.5	0.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		111.432
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-05d 25X

Sample Date/Time: Friday, March 08, 2024 09:38:11
Report Date/Time: Friday, March 08, 2024 09:39:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-05d 25X.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	345.3	3.8	**0.0655**	0.004	6.6	ug/L	115	KED
|	**Ni -4**	60	145.7	6.9	**0.0695**	0.008	11.0	ug/L	53	KED
|	**Ni -5**	62	30.3	10.6	**0.1059**	0.015	13.7	ug/L	10	KED
|	**As-2**	75	29.0	19.2	**0.1095**	0.022	20.2	ug/L	5	KED
	Y-1	89	63284.5	0.4				ug/L	60452	KED
	Rh-1	103	66776.4	0.1				ug/L	73774	KED
|>	**Ge-1**	72	46110.3	0.5				ug/L	45795	KED
	In-1	115	44849.3	0.3				ug/L	46923	KED
	Sc-2	45	8891.8	0.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		100.689
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 09:41:21
Report Date/Time: Friday, March 08, 2024 09:42:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	147054.5	2.3	**41.8655**	0.479	1.1	ug/L	115	KED
|	**Ni -4**	60	64165.8	2.6	**41.4303**	0.547	1.3	ug/L	53	KED
|	**Ni -5**	62	9819.4	3.5	**40.9707**	0.748	1.8	ug/L	10	KED
|	**As-2**	75	11595.4	0.8	**40.7943**	0.662	1.6	ug/L	5	KED
	Y-1	89	66851.4	1.9				ug/L	60452	KED
	Rh-1	103	78117.0	1.3				ug/L	73774	KED
|>	**Ge-1**	72	50915.9	2.3				ug/L	45795	KED
	In-1	115	49689.0	1.4				ug/L	46923	KED
	Sc-2	45	9055.2	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	104.664	
|	Ni -4	60	103.576	
|	Ni -5	62	102.427	
|	As-2	75	101.986	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		111.183
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 09:44:30
Report Date/Time: Friday, March 08, 2024 09:45:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	74000.9	2.8	**20.5480**	0.191	0.9	ug/L	115	KED
|	**Ni -4**	60	32605.5	3.4	**20.5372**	0.325	1.6	ug/L	53	KED
|	**Ni -5**	62	4892.8	2.4	**19.9229**	0.440	2.2	ug/L	10	KED
|	**As-2**	75	5918.9	1.4	**20.3314**	0.340	1.7	ug/L	5	KED
	Y-1	89	67633.1	2.8				ug/L	60452	KED
	Rh-1	103	79299.9	2.0				ug/L	73774	KED
| >	**Ge-1**	72	52142.0	2.3				ug/L	45795	KED
	In-1	115	50797.4	1.4				ug/L	46923	KED
	Sc-2	45	9316.4	3.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	102.740	
|	Ni -4	60	102.686	
|	Ni -5	62	99.614	
|	As-2	75	101.657	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		113.860
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 09:47:40
Report Date/Time: Friday, March 08, 2024 09:48:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	176.5	5.3	**0.0061**	0.004	60.6	ug/L	115	KED
|	**Ni -4**	60	79.0	14.4	**0.0155**	0.007	44.8	ug/L	53	KED
|	**Ni -5**	62	10.7	10.8	**0.0096**	0.005	51.7	ug/L	10	KED
|	**As-2**	75	4.0	43.3	**0.0105**	0.006	55.3	ug/L	5	KED
	Y-1	89	67498.2	3.2				ug/L	60452	KED
	Rh-1	103	79968.3	2.5				ug/L	73774	KED
|>	**Ge-1**	72	52025.6	2.2				ug/L	45795	KED
	In-1	115	50823.5	2.8				ug/L	46923	KED
	Sc-2	45	9178.3	3.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		113.606
	In-1	115		
	Sc-2	45		

Work continued from Page

Std Name	Lab ID	Source	Source ID	Exp	Initial conc ppm	Initial vol mL	Final conc ppm	Final vol mL	Comments	Solvent	Date
6020 10x	TM12-004-00	IV 6020Cal-1	T2MEB726406	2-9-25	20	1.0	2	10	2% HNO_3	Kcm	3-6-24
6020 100x	Kcm 3-6-24 02	↓	↓	↓	↓	0.1	.2	↓	↓	↓	↓
Std 1	TM12-004-03	6020 100x	TM12-004-02	3-20-24	.2	.05	.0002	50	5% HNO_3	Kcm	3-6-24
2	04	↓	↓		1	.125	.0005				
3	05	6020 10x	TM12-004-01		2	.05	.002				
4	06	↓	↓		1	.125	.005				
5	07	IV 6020Cal-1	T2MEB726406	2-9-25	20	.05	.02				
6	08	↓	↓	↓	↓	.10	.04				
7	Kcm 3-8-24	↓	↓	↓	↓	.25	.10				
IW	✓ 10	IV PECHK1	S2MEB709269	5-24-24	10	.25	.05	↓	↓	↓	↓
Std 1	TM12-004-11	6020 100x	TM12-004-02	3-20-24	.2	.05	.0002	50	5% HNO_3	Kcm	3-8-24
2	12	↓	↓		1	.125	.0005				
3	13	6020 10x	TM12-004-01		2	.05	.002				
4	14	↓	↓		1	.125	.005				
5	15	IV 6020Cal-1	T2MEB726406	2-9-25	20	.05	.02				
6	16	↓	↓	↓	↓	.10	.04				
7	Kcm 3-11-24 17	↓	↓	↓	↓	.25	.16				
IW	18	IV PECHK1	S2MEB709269	5-24-24	10	.25	.05	↓	↓	↓	↓
Std 1	TM12-004-19	6020 100x	TM12-004-02	3-20-24	.2	.05	.0001	50	5% HNO_3	Kcm	3-12-24
2	20	↓	↓		1	.125	.0005				
3	21	6020 10x	TM12-004-01		2	.05	.002				
4	22	↓	↓		1	.125	.005				
5	23	IV 6020Cal-1	T2MEB726406	2-9-25	20	.05	.02				
6	24	↓	↓	↓	↓	.10	.04				
7	Kcm 3-12-24	↓	↓	↓	↓	.25	.10				
IW	26	IV PECHK1	S2MEB709269	5-24-24	10	.25	.05	↓	↓	↓	↓
6020 10x	TM12004-27	IV 6020Cal-1	T2MEB726406	2-9-25	20	1.0	2	10	2% HNO_3	Kcm	3-12-24
6020 100x	Kcm 3-12-24 28	↓	↓	↓	↓	0.1	.2	↓	↓	↓	↓

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

DIGESTION DATE:	3-8-24
ANALYST:	lcm

QC BATCH #:	01-243-136
MATRIX:	water
ANALYSIS METHOD:	3015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MB0308WM1	45mL	50			
SB0308WM1					
01-243-136					
136D					
D6MS					
D6MSD					
02-208-01A					
02A					
03A					
04A					
05A					

lcm 3-11-24

SPIKE ID# IV6QC cal-1 VOL ADDED: .25mL

Dissolved Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

3-8-24
KDM

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\
Report Date/Time: Friday, March 08, 2024 09:50:27

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [¶[STD/KED] Nebulizer (		06:59:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - CQID		07:02:27 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - CQID		07:04:35 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - CQID		07:06:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - MMass Calibration and I		07:09:07 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [¶[STD] Performance Ch		07:09:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [¶[STD] Performance Ch		07:13:16 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
SmartTune - [¶[STD] Performance Ch		07:15:37 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Sample	07:22:55 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Sample	07:26:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Blank	07:31:39 Fri 08-Ma	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 1	07:33:58 Fri 08-Ma	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 2	07:36:16 Fri 08-Ma	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 3	07:38:36 Fri 08-Ma	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 4	07:40:55 Fri 08-Ma	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 5	07:43:14 Fri 08-Ma	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 6	07:45:33 Fri 08-Ma	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	Standard 7	07:47:51 Fri 08-Ma	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 1	07:51:00 Fri 08-Ma	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 2	07:54:09 Fri 08-Ma	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	07:56:27 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	07:59:36 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	08:02:44 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	MB0308D1 2X	08:05:04 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	SB0308D1 2X	08:08:13 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-01c 25X	08:12:09 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02c 25X	08:15:17 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-03c 25X	08:18:25 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-04c 25X	08:21:34 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-05c 25X	08:24:42 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cD 25X	08:27:58 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cL 125X	08:31:07 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cMS 25X	08:34:15 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	08:37:25 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	08:40:35 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	08:43:45 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02cMSD 25X	08:47:34 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	MB0308WM1 2X	08:50:42 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	SB0308WM1 2X	08:53:51 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13b 2X	08:56:58 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bD 2X	09:00:06 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bL 10X	09:03:14 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bMS 2X	09:06:21 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bMSD 2X	09:09:29 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	01-243-13bPS 2X	09:12:37 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-01d 25X	09:15:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 6	09:18:56 Fri 08-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 7	09:22:05 Fri 08-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	QC Std 8	09:25:15 Fri 08-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	
	02-208-02d 25X	09:28:46 Fri 08-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030E	

02-208-03d 25X	09:31:55 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
02-208-04d 25X	09:35:03 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
02-208-05d 25X	09:38:11 Fri 08-MaSample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 6	09:41:21 Fri 08-MaQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 7	09:44:30 Fri 08-MaQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030
QC Std 8	09:47:40 Fri 08-MaQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y24030

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, March 08, 2024 07:15:37
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\03MAR24\Y240308A\[STD] Performance Check.008
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	65637.7	65637.718	472.516	0.7	Standard
	In	114.9	427306.0	427306.003	11109.324	2.6	Standard
	U	238.1	276850.5	276850.513	2523.994	0.9	Standard
Ce	CeO	155.9	19655.8	0.023	0.000	0.8	Standard
Ce	Ce++	70.0	8192.5	0.010	0.000	1.3	Standard
	Bkgd	220.5	0.9	0.867	0.321	37.0	Standard
	Ce	139.9	859100.3	859100.276	9398.000	1.1	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.96	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.10	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Ammonia DRC - Hyperskimmer Park Voltage
0.98	Ammonia DRC - DRC Mode NEB
5.00	Helium KED - OmniRing Park Voltage
2.00	Helium KED - Hyperskimmer Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:09:07 Fri 08-Mar-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	7.025	1227	2062	0.706	
Mg	23.985	24.025	4587	2063	0.690	
In	114.904	114.925	22600	2066	0.707	
Pb	207.977	207.975	41058	2065	0.702	
U	238.050	238.025	47021	2065	0.706	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni -3	57.935	Weighted Linear	0.07	0.00	0.999914
Ni -4	59.933	Weighted Linear	0.03	-0.00	0.999801
Ni -5	61.928	Weighted Linear	0.00	-0.00	0.999790
As-2	74.922	Weighted Linear	0.01	-0.00	0.999903
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000
Sc-2	44.956	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, March 08, 2024 07:31:39
Report Date/Time: Friday, March 08, 2024 07:32:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Blank.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	114.9	22.0				ug/L		KED
|	**Ni -4**	60	52.7	4.0				ug/L		KED
|	**Ni -5**	62	10.3	14.8				ug/L		KED
|	**As-2**	75	5.0	52.9				ug/L		KED
	Y-1	89	60452.4	3.3				ug/L		KED
	Rh-1	103	73774.4	2.6				ug/L		KED
| >	**Ge-1**	72	45794.7	3.9				ug/L		KED
	In-1	115	46923.5	1.9				ug/L		KED
	Sc-2	45	7392.2	5.6				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, March 08, 2024 07:33:58
Report Date/Time: Friday, March 08, 2024 07:34:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	881.1	3.9				ug/L	115	KED
|	**Ni -4**	60	381.3	3.3				ug/L	53	KED
|	**Ni -5**	62	56.3	24.2				ug/L	10	KED
|	**As-2**	75	60.3	6.3				ug/L	5	KED
	Y-1	89	71033.5	0.8				ug/L	60452	KED
	Rh-1	103	85522.9	0.8				ug/L	73774	KED
|>	**Ge-1**	72	52790.4	0.8				ug/L	45795	KED
	In-1	115	54710.3	0.6				ug/L	46923	KED
	Sc-2	45	8645.6	1.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, March 08, 2024 07:36:16
Report Date/Time: Friday, March 08, 2024 07:37:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	1935.7	3.1				ug/L	115	KED
|	**Ni -4**	60	837.0	6.3				ug/L	53	KED
|	**Ni -5**	62	129.3	7.4				ug/L	10	KED
|	**As-2**	75	142.7	7.0	**0.5000**	0.038	7.7	ug/L	5	KED
	Y-1	89	69713.7	1.1				ug/L	60452	KED
	Rh-1	103	83762.5	1.1				ug/L	73774	KED
|>	**Ge-1**	72	51825.8	0.5				ug/L	45795	KED
	In-1	115	53312.9	1.7				ug/L	46923	KED
	Sc-2	45	8434.5	1.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, March 08, 2024 07:38:36
Report Date/Time: Friday, March 08, 2024 07:39:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 3.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	7335.3	1.5	**2.0000**	0.022	1.1	ug/L	115	KED
|	**Ni -4**	60	3264.4	1.8	**2.0000**	0.029	1.4	ug/L	53	KED
|	**Ni -5**	62	504.7	5.6	**2.0000**	0.127	6.3	ug/L	10	KED
|	**As-2**	75	580.0	1.8	**2.0186**	0.041	2.1	ug/L	5	KED
	Y-1	89	69928.7	0.2				ug/L	60452	KED
	Rh-1	103	84015.7	0.6				ug/L	73774	KED
|>	**Ge-1**	72	51954.0	0.8				ug/L	45795	KED
	In-1	115	54159.8	1.3				ug/L	46923	KED
	Sc-2	45	8488.9	1.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, March 08, 2024 07:40:55
Report Date/Time: Friday, March 08, 2024 07:41:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 4.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	18053.8	0.8	**5.0330**	0.033	0.7	ug/L	115	KED
|	**Ni -4**	60	7996.6	2.7	**5.0113**	0.153	3.1	ug/L	53	KED
|	**Ni -5**	62	1239.1	3.1	**5.0149**	0.168	3.3	ug/L	10	KED
|	**As-2**	75	1451.7	3.9	**5.0888**	0.210	4.1	ug/L	5	KED
	Y-1	89	68473.0	0.7				ug/L	60452	KED
	Rh-1	103	82504.9	0.8				ug/L	73774	KED
|>	**Ge-1**	72	50913.6	0.3				ug/L	45795	KED
	In-1	115	53210.7	1.4				ug/L	46923	KED
	Sc-2	45	8377.5	0.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, March 08, 2024 07:43:14
Report Date/Time: Friday, March 08, 2024 07:44:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 5.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	68298.1	0.4	**19.8164**	0.136	0.7	ug/L	115	KED
|	**Ni -4**	60	29606.6	0.2	**19.4889**	0.102	0.5	ug/L	53	KED
|	**Ni -5**	62	4649.8	2.6	**19.6514**	0.552	2.8	ug/L	10	KED
|	**As-2**	75	5495.4	1.3	**19.8825**	0.198	1.0	ug/L	5	KED
	Y-1	89	66872.2	1.0				ug/L	60452	KED
	Rh-1	103	79399.4	0.7				ug/L	73774	KED
|>	**Ge-1**	72	49483.2	0.3				ug/L	45795	KED
	In-1	115	51420.0	0.3				ug/L	46923	KED
	Sc-2	45	8094.3	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, March 08, 2024 07:45:33
Report Date/Time: Friday, March 08, 2024 07:46:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 6.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	129161.4	0.4	**39.6805**	0.335	0.8	ug/L	115	KED
|	**Ni -4**	60	57068.1	0.9	**39.7416**	0.367	0.9	ug/L	53	KED
|	**Ni -5**	62	8717.3	1.2	**39.1968**	0.261	0.7	ug/L	10	KED
|	**As-2**	75	10516.2	0.8	**40.0847**	0.083	0.2	ug/L	5	KED
	Y-1	89	63347.1	0.4				ug/L	60452	KED
	Rh-1	103	75236.6	0.9				ug/L	73774	KED
|>	**Ge-1**	72	46940.3	0.8				ug/L	45795	KED
	In-1	115	48940.6	0.6				ug/L	46923	KED
	Sc-2	45	7588.3	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, March 08, 2024 07:47:51
Report Date/Time: Friday, March 08, 2024 07:48:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\Standard 7.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	313775.7	0.1	**98.3214**	0.451	0.5	ug/L	115	KED
|	**Ni -4**	60	138100.3	0.6	**98.1356**	0.798	0.8	ug/L	53	KED
|	**Ni -5**	62	21301.9	1.2	**97.8292**	0.820	0.8	ug/L	10	KED
|	**As-2**	75	25750.5	0.9	**99.6358**	0.362	0.4	ug/L	5	KED
	Y-1	89	62917.9	0.4				ug/L	60452	KED
	Rh-1	103	74758.4	0.2				ug/L	73774	KED
| >	**Ge-1**	72	46285.9	0.6				ug/L	45795	KED
	In-1	115	49301.0	0.9				ug/L	46923	KED
	Sc-2	45	7453.3	2.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, March 08, 2024 07:51:00
Report Date/Time: Friday, March 08, 2024 07:51:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 1.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	154625.3	0.9	**49.9971**	0.102	0.2	ug/L	115	KED
|	**Ni -4**	60	68216.5	0.4	**50.0274**	0.341	0.7	ug/L	53	KED
|	**Ni -5**	62	10600.3	2.4	**50.2361**	0.754	1.5	ug/L	10	KED
|	**As-2**	75	12452.1	0.3	**49.7423**	0.673	1.4	ug/L	5	KED
	Y-1	89	61657.5	1.2				ug/L	60452	KED
	Rh-1	103	72689.1	0.2				ug/L	73774	KED
| >	**Ge-1**	72	44835.9	1.0				ug/L	45795	KED
	In-1	115	47755.2	0.6				ug/L	46923	KED
	Sc-2	45	7421.9	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	99.994	
|	Ni -4	60	100.055	
|	Ni -5	62	100.472	
|	As-2	75	99.485	
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		97.906
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, March 08, 2024 07:54:09
Report Date/Time: Friday, March 08, 2024 07:54:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 2.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	129.9	7.1	**-0.0020**	0.003	149.0	ug/L	115	KED
|	**Ni -4**	60	56.0	12.5	**0.0058**	0.005	85.9	ug/L	53	KED
|	**Ni -5**	62	11.3	22.2	**0.0187**	0.012	62.5	ug/L	10	KED
|	**As-2**	75	7.3	61.5	**0.0255**	0.018	69.2	ug/L	5	KED
	Y-1	89	62212.2	0.8				ug/L	60452	KED
	Rh-1	103	73567.9	0.6				ug/L	73774	KED
|>	**Ge-1**	72	45715.7	0.1				ug/L	45795	KED
	In-1	115	48859.3	0.6				ug/L	46923	KED
	Sc-2	45	7417.9	1.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.828
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 07:56:27
Report Date/Time: Friday, March 08, 2024 07:57:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	119329.7	0.3	**39.7916**	0.236	0.6	ug/L	115	KED
|	**Ni -4**	60	52361.1	0.3	**39.6011**	0.220	0.6	ug/L	53	KED
|	**Ni -5**	62	8102.6	1.4	**39.6050**	0.433	1.1	ug/L	10	KED
|	**As-2**	75	9859.4	1.6	**40.6207**	0.494	1.2	ug/L	5	KED
	Y-1	89	59544.2	0.5				ug/L	60452	KED
	Rh-1	103	69801.5	0.8				ug/L	73774	KED
|>	**Ge-1**	72	43466.4	0.4				ug/L	45795	KED
	In-1	115	46510.6	0.5				ug/L	46923	KED
	Sc-2	45	7194.5	1.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	99.479	
|	Ni -4	60	99.003	
|	Ni -5	62	99.013	
|	As-2	75	101.552	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		94.916
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 07:59:36
Report Date/Time: Friday, March 08, 2024 08:00:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	61089.4	1.0	**19.6476**	0.176	0.9	ug/L	115	KED
|	**Ni -4**	60	26817.5	0.1	**19.5668**	0.077	0.4	ug/L	53	KED
|	**Ni -5**	62	4236.3	2.4	**19.9768**	0.432	2.2	ug/L	10	KED
|	**As-2**	75	4993.9	1.5	**19.8652**	0.252	1.3	ug/L	5	KED
	Y-1	89	62111.4	0.9				ug/L	60452	KED
	Rh-1	103	71981.6	0.3				ug/L	73774	KED
|>	**Ge-1**	72	45015.5	0.3				ug/L	45795	KED
	In-1	115	48137.4	0.5				ug/L	46923	KED
	Sc-2	45	7359.2	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	98.238	
|	Ni -4	60	97.834	
|	Ni -5	62	99.884	
|	As-2	75	99.326	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		98.298
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 08:02:44
Report Date/Time: Friday, March 08, 2024 08:03:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	112.8	14.5	**-0.0073**	0.005	73.4	ug/L	115	KED
|	**Ni -4**	60	43.3	7.4	**-0.0032**	0.002	76.7	ug/L	53	KED
|	**Ni -5**	62	7.0	14.3	**-0.0014**	0.005	345.5	ug/L	10	KED
|	**As-2**	75	5.0	40.0	**0.0164**	0.008	47.3	ug/L	5	KED
	Y-1	89	61865.0	1.0				ug/L	60452	KED
	Rh-1	103	72635.9	0.8				ug/L	73774	KED
|>	**Ge-1**	72	45654.8	0.6				ug/L	45795	KED
	In-1	115	48062.5	0.5				ug/L	46923	KED
	Sc-2	45	7394.6	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.695
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: MB0308D1 2X

Sample Date/Time: Friday, March 08, 2024 08:05:04
Report Date/Time: Friday, March 08, 2024 08:05:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\MB0308D1 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	113.6	7.2	**-0.0070**	0.003	37.5	ug/L	115	KED
|	**Ni -4**	60	54.3	8.7	**0.0048**	0.003	70.8	ug/L	53	KED
|	**Ni -5**	62	9.3	22.3	**0.0097**	0.010	100.8	ug/L	10	KED
|	**As-2**	75	3.3	75.5	**0.0099**	0.010	100.1	ug/L	5	KED
	Y-1	89	62165.0	1.1				ug/L	60452	KED
	Rh-1	103	72897.2	0.7				ug/L	73774	KED
|>	**Ge-1**	72	45485.0	0.0				ug/L	45795	KED
	In-1	115	48273.1	0.2				ug/L	46923	KED
	Sc-2	45	7389.6	1.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		99.324
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: SB0308D1 2X

Sample Date/Time: Friday, March 08, 2024 08:08:13
Report Date/Time: Friday, March 08, 2024 08:09:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\SB0308D1 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	116768.2	0.5	**39.4476**	0.380	1.0	ug/L	115	KED
|	**Ni -4**	60	51383.6	0.1	**39.3705**	0.130	0.3	ug/L	53	KED
|	**Ni -5**	62	8017.2	0.8	**39.7031**	0.475	1.2	ug/L	10	KED
|	**As-2**	75	9686.6	0.9	**40.4341**	0.522	1.3	ug/L	5	KED
	Y-1	89	59459.5	0.7				ug/L	60452	KED
	Rh-1	103	69457.1	0.8				ug/L	73774	KED
| >	**Ge-1**	72	42904.3	0.4				ug/L	45795	KED
	In-1	115	46166.0	1.2				ug/L	46923	KED
	Sc-2	45	7029.1	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		93.688
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-01c 25X

Sample Date/Time: Friday, March 08, 2024 08:12:09
Report Date/Time: Friday, March 08, 2024 08:12:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-01c 25X.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	548.1	3.0	**0.1762**	0.013	7.5	ug/L	115	KED
|	**Ni -4**	60	239.7	17.7	**0.1824**	0.035	19.0	ug/L	53	KED
|	**Ni -5**	62	48.3	29.9	**0.2494**	0.085	34.0	ug/L	10	KED
|	**As-2**	75	14.7	41.7	**0.0686**	0.028	41.1	ug/L	5	KED
	Y-1	89	50308.5	3.5				ug/L	60452	KED
	Rh-1	103	54787.2	2.9				ug/L	73774	KED
|>	**Ge-1**	72	36294.4	3.1				ug/L	45795	KED
	In-1	115	37344.5	1.7				ug/L	46923	KED
	Sc-2	45	6550.8	3.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		79.255
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02c 25X

Sample Date/Time: Friday, March 08, 2024 08:15:17
Report Date/Time: Friday, March 08, 2024 08:16:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02c 25X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	212.2	3.1	**0.0324**	0.002	5.6	ug/L	115	KED
|	**Ni -4**	60	89.7	12.4	**0.0381**	0.009	24.7	ug/L	53	KED
|	**Ni -5**	62	22.7	6.7	**0.0845**	0.009	10.6	ug/L	10	KED
|	**As-2**	75	27.3	35.9	**0.1173**	0.044	37.4	ug/L	5	KED
	Y-1	89	57385.0	1.3				ug/L	60452	KED
	Rh-1	103	60976.9	0.8				ug/L	73774	KED
| >	**Ge-1**	72	40700.6	0.9				ug/L	45795	KED
	In-1	115	41144.8	1.6				ug/L	46923	KED
	Sc-2	45	7668.7	1.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		88.876
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-03c 25X

Sample Date/Time: Friday, March 08, 2024 08:18:25
Report Date/Time: Friday, March 08, 2024 08:19:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-03c 25X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	180.7	5.2	**0.0212**	0.004	16.9	ug/L	115	KED
|	**Ni -4**	60	99.7	7.6	**0.0462**	0.007	14.4	ug/L	53	KED
|	**Ni -5**	62	23.3	22.0	**0.0879**	0.027	30.3	ug/L	10	KED
|	**As-2**	75	22.3	11.3	**0.0951**	0.011	11.4	ug/L	5	KED
	Y-1	89	57230.1	0.6				ug/L	60452	KED
	Rh-1	103	60795.8	1.6				ug/L	73774	KED
|>	**Ge-1**	72	40686.9	0.7				ug/L	45795	KED
	In-1	115	40964.6	0.8				ug/L	46923	KED
	Sc-2	45	7565.0	2.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		88.846
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-04c 25X

Sample Date/Time: Friday, March 08, 2024 08:21:34
Report Date/Time: Friday, March 08, 2024 08:22:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-04c 25X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	867.2	3.7	**0.2197**	0.008	3.8	ug/L	115	KED
|	**Ni -4**	60	233.7	3.9	**0.1262**	0.007	5.4	ug/L	53	KED
|	**Ni -5**	62	34.3	11.8	**0.1186**	0.018	15.5	ug/L	10	KED
|	**As-2**	75	169.0	8.2	**0.6295**	0.055	8.8	ug/L	5	KED
	Y-1	89	64215.0	1.2				ug/L	60452	KED
	Rh-1	103	73070.4	0.1				ug/L	73774	KED
|>	**Ge-1**	72	47853.7	0.6				ug/L	45795	KED
	In-1	115	48399.3	0.5				ug/L	46923	KED
	Sc-2	45	8072.3	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		104.496
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-05c 25X

Sample Date/Time: Friday, March 08, 2024 08:24:42
Report Date/Time: Friday, March 08, 2024 08:25:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-05c 25X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	188.9	8.0	**0.0230**	0.005	20.9	ug/L	115	KED
|	**Ni -4**	60	90.3	10.8	**0.0374**	0.008	22.0	ug/L	53	KED
|	**Ni -5**	62	20.3	31.2	**0.0703**	0.032	45.7	ug/L	10	KED
|	**As-2**	75	28.7	8.8	**0.1208**	0.011	9.3	ug/L	5	KED
	Y-1	89	58729.8	0.2				ug/L	60452	KED
	Rh-1	103	61698.3	0.5				ug/L	73774	KED
|>	**Ge-1**	72	41395.6	0.7				ug/L	45795	KED
	In-1	115	41514.4	0.8				ug/L	46923	KED
	Sc-2	45	7832.1	1.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		90.394
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cD 25X

Sample Date/Time: Friday, March 08, 2024 08:27:58
Report Date/Time: Friday, March 08, 2024 08:28:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cD 25X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	221.2	7.8	**0.0373**	0.007	19.1	ug/L	115	KED
|	**Ni -4**	60	102.0	5.5	**0.0496**	0.004	8.3	ug/L	53	KED
|	**Ni -5**	62	18.0	48.4	**0.0611**	0.043	70.5	ug/L	10	KED
|	**As-2**	75	31.3	21.7	**0.1369**	0.026	19.0	ug/L	5	KED
	Y-1	89	55585.0	2.7				ug/L	60452	KED
	Rh-1	103	59152.6	2.5				ug/L	73774	KED
|>	**Ge-1**	72	39909.7	3.0				ug/L	45795	KED
	In-1	115	39672.3	2.0				ug/L	46923	KED
	Sc-2	45	7459.9	2.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		87.149
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cL 125X

Sample Date/Time: Friday, March 08, 2024 08:31:07
Report Date/Time: Friday, March 08, 2024 08:31:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cL 125X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	277.0	4.2	**0.0388**	0.004	9.1	ug/L	115	KED
|	**Ni -4**	60	110.3	7.0	**0.0396**	0.005	12.8	ug/L	53	KED
|	**Ni -5**	62	30.0	39.3	**0.0962**	0.051	53.3	ug/L	10	KED
|	**As-2**	75	8.7	26.6	**0.0285**	0.008	29.8	ug/L	5	KED
	Y-1	89	66305.9	1.1				ug/L	60452	KED
	Rh-1	103	73797.5	0.5				ug/L	73774	KED
|>	**Ge-1**	72	49006.6	0.2				ug/L	45795	KED
	In-1	115	48338.2	0.4				ug/L	46923	KED
	Sc-2	45	8559.9	0.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		107.014
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cMS 25X

Sample Date/Time: Friday, March 08, 2024 08:34:15
Report Date/Time: Friday, March 08, 2024 08:35:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cMS 25X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	110326.8	0.8	**37.6401**	0.363	1.0	ug/L	115	KED
|	**Ni -4**	60	48213.9	1.2	**37.3084**	0.515	1.4	ug/L	53	KED
|	**Ni -5**	62	7378.9	1.0	**36.9022**	0.376	1.0	ug/L	10	KED
|	**As-2**	75	9661.9	0.8	**40.7324**	0.478	1.2	ug/L	5	KED
	Y-1	89	59666.7	0.6				ug/L	60452	KED
	Rh-1	103	62495.1	0.1				ug/L	73774	KED
|>	**Ge-1**	72	42481.4	0.4				ug/L	45795	KED
	In-1	115	42198.8	0.3				ug/L	46923	KED
	Sc-2	45	7917.5	1.8				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		92.765
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 08:37:25
Report Date/Time: Friday, March 08, 2024 08:38:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	131327.0	3.0	**40.6770**	0.407	1.0	ug/L	115	KED
|	**Ni -4**	60	57413.2	2.7	**40.3339**	0.206	0.5	ug/L	53	KED
|	**Ni -5**	62	8914.4	1.8	**40.4827**	0.446	1.1	ug/L	10	KED
|	**As-2**	75	10697.3	3.1	**40.9385**	0.464	1.1	ug/L	5	KED
	Y-1	89	62207.9	2.4				ug/L	60452	KED
	Rh-1	103	72869.8	2.3				ug/L	73774	KED
|>	**Ge-1**	72	46790.9	2.2				ug/L	45795	KED
	In-1	115	47314.2	2.0				ug/L	46923	KED
	Sc-2	45	7918.5	2.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	101.692	
|	Ni -4	60	100.835	
|	Ni -5	62	101.207	
|	As-2	75	102.346	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		102.175
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 08:40:35
Report Date/Time: Friday, March 08, 2024 08:41:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	66575.0	3.5	**20.1916**	0.193	1.0	ug/L	115	KED
|	**Ni -4**	60	29153.7	3.5	**20.0592**	0.214	1.1	ug/L	53	KED
|	**Ni -5**	62	4482.7	3.5	**19.9339**	0.179	0.9	ug/L	10	KED
|	**As-2**	75	5369.7	5.8	**20.1345**	0.684	3.4	ug/L	5	KED
	Y-1	89	63153.7	2.7				ug/L	60452	KED
	Rh-1	103	74727.4	2.6				ug/L	73774	KED
|>	**Ge-1**	72	47731.0	2.6				ug/L	45795	KED
	In-1	115	48288.6	1.8				ug/L	46923	KED
	Sc-2	45	8139.0	3.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	100.958	
|	Ni -4	60	100.296	
|	Ni -5	62	99.669	
|	As-2	75	100.673	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		104.228
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 08:43:45
Report Date/Time: Friday, March 08, 2024 08:44:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	152.2	1.5	**0.0032**	0.001	38.2	ug/L	115	KED
|	**Ni -4**	60	77.3	8.6	**0.0191**	0.006	30.7	ug/L	53	KED
|	**Ni -5**	62	12.0	46.4	**0.0191**	0.023	122.1	ug/L	10	KED
|	**As-2**	75	3.7	31.5	**0.0106**	0.004	41.5	ug/L	5	KED
	Y-1	89	62977.2	2.6				ug/L	60452	KED
	Rh-1	103	74131.3	2.6				ug/L	73774	KED
|>	**Ge-1**	72	47616.6	3.2				ug/L	45795	KED
	In-1	115	47623.7	2.4				ug/L	46923	KED
	Sc-2	45	8079.0	4.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		103.978
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02cMSD 25X

Sample Date/Time: Friday, March 08, 2024 08:47:34
Report Date/Time: Friday, March 08, 2024 08:48:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02cMSD 25X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	102000.6	3.8	**38.7290**	0.663	1.7	ug/L	115	KED
|	**Ni -4**	60	44609.6	3.8	**38.4166**	0.616	1.6	ug/L	53	KED
|	**Ni -5**	62	6896.0	4.3	**38.3780**	0.757	2.0	ug/L	10	KED
|	**As-2**	75	9155.6	3.4	**42.9559**	0.380	0.9	ug/L	5	KED
	Y-1	89	52870.7	2.3				ug/L	60452	KED
	Rh-1	103	55966.5	2.4				ug/L	73774	KED
|>	**Ge-1**	72	38164.9	2.5				ug/L	45795	KED
	In-1	115	38097.1	1.4				ug/L	46923	KED
	Sc-2	45	7204.2	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		83.339
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: MB0308WM1 2X

Sample Date/Time: Friday, March 08, 2024 08:50:42
Report Date/Time: Friday, March 08, 2024 08:51:31
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\MB0308WM1 2X.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	139.1	4.0	**-0.0027**	0.002	72.4	ug/L	115	KED
|	**Ni -4**	60	59.0	4.5	**0.0045**	0.001	31.6	ug/L	53	KED
|	**Ni -5**	62	15.3	10.0	**0.0314**	0.007	21.2	ug/L	10	KED
|	**As-2**	75	7.0	57.1	**0.0219**	0.014	65.9	ug/L	5	KED
	Y-1	89	65852.8	1.1				ug/L	60452	KED
	Rh-1	103	76842.8	0.2				ug/L	73774	KED
|>	**Ge-1**	72	49839.1	0.8				ug/L	45795	KED
	In-1	115	49375.3	0.8				ug/L	46923	KED
	Sc-2	45	8403.5	1.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.832
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: SB0308WM1 2X

Sample Date/Time: Friday, March 08, 2024 08:53:51
Report Date/Time: Friday, March 08, 2024 08:54:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\SB0308WM1 2X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	159538.4	0.6	**47.5731**	0.583	1.2	ug/L	115	KED
|	**Ni -4**	60	70385.3	0.4	**47.6013**	0.494	1.0	ug/L	53	KED
|	**Ni -5**	62	10760.4	0.7	**47.0310**	0.317	0.7	ug/L	10	KED
|	**As-2**	75	12860.8	0.8	**47.3779**	0.747	1.6	ug/L	5	KED
	Y-1	89	64531.1	1.0				ug/L	60452	KED
	Rh-1	103	74931.3	0.5				ug/L	73774	KED
|>	**Ge-1**	72	48618.3	1.0				ug/L	45795	KED
	In-1	115	48687.2	0.6				ug/L	46923	KED
	Sc-2	45	8270.7	0.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		106.166
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13b 2X

Sample Date/Time: Friday, March 08, 2024 08:56:58
Report Date/Time: Friday, March 08, 2024 08:57:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13b 2X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	2162.2	2.4	**0.5925**	0.019	3.3	ug/L	115	KED
|	**Ni -4**	60	851.4	5.0	**0.5332**	0.031	5.8	ug/L	53	KED
|	**Ni -5**	62	141.3	11.9	**0.5748**	0.071	12.3	ug/L	10	KED
|	**As-2**	75	145.3	1.7	**0.5241**	0.006	1.1	ug/L	5	KED
	Y-1	89	66155.2	0.9				ug/L	60452	KED
	Rh-1	103	75702.7	0.8				ug/L	73774	KED
|>	**Ge-1**	72	49357.8	0.7				ug/L	45795	KED
	In-1	115	48855.9	0.5				ug/L	46923	KED
	Sc-2	45	8478.8	0.9				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		107.781
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bD 2X

Sample Date/Time: Friday, March 08, 2024 09:00:06
Report Date/Time: Friday, March 08, 2024 09:00:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bD 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	2240.0	0.4	**0.6089**	0.003	0.5	ug/L	115	KED
|	**Ni -4**	60	840.7	4.9	**0.5206**	0.029	5.6	ug/L	53	KED
|	**Ni -5**	62	110.7	5.8	**0.4381**	0.026	5.9	ug/L	10	KED
|	**As-2**	75	144.3	7.2	**0.5155**	0.038	7.5	ug/L	5	KED
	Y-1	89	66908.3	0.6				ug/L	60452	KED
	Rh-1	103	76899.1	0.8				ug/L	73774	KED
| >	**Ge-1**	72	49842.5	0.3				ug/L	45795	KED
	In-1	115	50073.0	0.7				ug/L	46923	KED
	Sc-2	45	8656.3	2.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		108.839
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bL 10X

Sample Date/Time: Friday, March 08, 2024 09:03:14
Report Date/Time: Friday, March 08, 2024 09:04:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bL 10X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	1002.2	3.6	**0.2435**	0.010	4.0	ug/L	115	KED
|	**Ni -4**	60	440.0	4.5	**0.2509**	0.012	4.9	ug/L	53	KED
|	**Ni -5**	62	71.0	11.5	**0.2636**	0.033	12.6	ug/L	10	KED
|	**As-2**	75	27.3	22.4	**0.0933**	0.022	23.6	ug/L	5	KED
	Y-1	89	66676.3	1.3				ug/L	60452	KED
	Rh-1	103	77359.6	1.7				ug/L	73774	KED
|>	**Ge-1**	72	50724.9	0.4				ug/L	45795	KED
	In-1	115	49867.2	0.5				ug/L	46923	KED
	Sc-2	45	8551.6	0.4				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		110.766
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bMS 2X

Sample Date/Time: Friday, March 08, 2024 09:06:21
Report Date/Time: Friday, March 08, 2024 09:07:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bMS 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	167267.9	0.7	**49.2622**	0.397	0.8	ug/L	115	KED
|	**Ni -4**	60	73222.8	0.3	**48.9083**	0.119	0.2	ug/L	53	KED
|	**Ni -5**	62	11231.1	0.4	**48.4832**	0.115	0.2	ug/L	10	KED
|	**As-2**	75	13741.9	0.6	**49.9959**	0.238	0.5	ug/L	5	KED
	Y-1	89	65923.8	1.0				ug/L	60452	KED
	Rh-1	103	75239.3	0.6				ug/L	73774	KED
|>	**Ge-1**	72	49224.7	0.2				ug/L	45795	KED
	In-1	115	49044.3	0.5				ug/L	46923	KED
	Sc-2	45	8376.8	1.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		107.490
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bMSD 2X

Sample Date/Time: Friday, March 08, 2024 09:09:29
Report Date/Time: Friday, March 08, 2024 09:10:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bMSD 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	173684.4	0.3	**50.4670**	0.148	0.3	ug/L	115	KED
|	**Ni -4**	60	76120.9	0.9	**50.1637**	0.469	0.9	ug/L	53	KED
|	**Ni -5**	62	11647.4	1.1	**49.6075**	0.561	1.1	ug/L	10	KED
|	**As-2**	75	14394.6	0.6	**51.6687**	0.318	0.6	ug/L	5	KED
	Y-1	89	66991.7	1.5				ug/L	60452	KED
	Rh-1	103	76555.6	0.8				ug/L	73774	KED
|>	**Ge-1**	72	49893.3	0.1				ug/L	45795	KED
	In-1	115	49818.5	1.2				ug/L	46923	KED
	Sc-2	45	8610.6	0.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.950
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 01-243-13bPS 2X

Sample Date/Time: Friday, March 08, 2024 09:12:37
Report Date/Time: Friday, March 08, 2024 09:13:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\01-243-13bPS 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	159056.3	0.9	**51.5302**	0.699	1.4	ug/L	115	KED
|	**Ni -4**	60	68716.9	0.8	**50.4902**	0.676	1.3	ug/L	53	KED
|	**Ni -5**	62	10646.6	2.5	**50.5616**	1.535	3.0	ug/L	10	KED
|	**As-2**	75	12786.4	0.3	**51.1714**	0.474	0.9	ug/L	5	KED
	Y-1	89	60598.3	0.1				ug/L	60452	KED
	Rh-1	103	69076.6	0.4				ug/L	73774	KED
|>	**Ge-1**	72	44751.3	0.6				ug/L	45795	KED
	In-1	115	45369.9	0.7				ug/L	46923	KED
	Sc-2	45	7777.1	1.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		97.722
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-01d 25X

Sample Date/Time: Friday, March 08, 2024 09:15:46
Report Date/Time: Friday, March 08, 2024 09:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-01d 25X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	741.3	6.2	**0.1938**	0.014	7.2	ug/L	115	KED
|	**Ni -4**	60	302.0	12.9	**0.1844**	0.027	14.7	ug/L	53	KED
|	**Ni -5**	62	51.3	7.9	**0.2066**	0.019	9.2	ug/L	10	KED
|	**As-2**	75	19.7	23.5	**0.0743**	0.018	23.8	ug/L	5	KED
	Y-1	89	61892.1	1.1				ug/L	60452	KED
	Rh-1	103	66880.9	0.5				ug/L	73774	KED
| >	**Ge-1**	72	45371.6	0.7				ug/L	45795	KED
	In-1	115	44393.7	0.3				ug/L	46923	KED
	Sc-2	45	8351.1	2.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge-1	72		99.076
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 09:18:56
Report Date/Time: Friday, March 08, 2024 09:19:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	142364.5	3.0	**41.1161**	0.933	2.3	ug/L	115	KED
|	**Ni -4**	60	61995.3	2.8	**40.6092**	0.806	2.0	ug/L	53	KED
|	**Ni -5**	62	9525.8	3.6	**40.3232**	0.954	2.4	ug/L	10	KED
|	**As-2**	75	11297.1	1.1	**40.3165**	0.203	0.5	ug/L	5	KED
	Y-1	89	65653.9	2.3				ug/L	60452	KED
	Rh-1	103	77023.5	2.3				ug/L	73774	KED
|>	**Ge-1**	72	50183.7	1.4				ug/L	45795	KED
	In-1	115	49376.7	2.1				ug/L	46923	KED
	Sc-2	45	8654.6	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	102.790	
|	Ni -4	60	101.523	
|	Ni -5	62	100.808	
|	As-2	75	100.791	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		109.584
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 09:22:05
Report Date/Time: Friday, March 08, 2024 09:22:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	70522.6	3.2	**20.3977**	0.126	0.6	ug/L	115	KED
|	**Ni -4**	60	30979.9	3.5	**20.3258**	0.169	0.8	ug/L	53	KED
|	**Ni -5**	62	4701.4	4.4	**19.9331**	0.394	2.0	ug/L	10	KED
|	**As-2**	75	5588.8	3.1	**19.9920**	0.132	0.7	ug/L	5	KED
	Y-1	89	66211.8	2.6				ug/L	60452	KED
	Rh-1	103	77761.8	2.4				ug/L	73774	KED
|>	**Ge-1**	72	50056.9	2.8				ug/L	45795	KED
	In-1	115	49880.6	1.8				ug/L	46923	KED
	Sc-2	45	8869.8	5.2				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	101.989	
|	Ni -4	60	101.629	
|	Ni -5	62	99.665	
|	As-2	75	99.960	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		109.307
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 09:25:15
Report Date/Time: Friday, March 08, 2024 09:26:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	155.8	6.0	**0.0022**	0.003	129.6	ug/L	115	KED
|	**Ni -4**	60	71.7	14.0	**0.0127**	0.005	41.2	ug/L	53	KED
|	**Ni -5**	62	10.3	24.4	**0.0100**	0.010	98.7	ug/L	10	KED
|	**As-2**	75	4.0	50.0	**0.0111**	0.007	63.9	ug/L	5	KED
	Y-1	89	65022.0	2.5				ug/L	60452	KED
	Rh-1	103	76861.3	2.3				ug/L	73774	KED
|>	**Ge-1**	72	49872.0	3.1				ug/L	45795	KED
	In-1	115	48979.8	1.5				ug/L	46923	KED
	Sc-2	45	8624.9	3.8				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		108.903
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-02d 25X

Sample Date/Time: Friday, March 08, 2024 09:28:46
Report Date/Time: Friday, March 08, 2024 09:29:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-02d 25X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	283.0	1.9	**0.0605**	0.001	1.9	ug/L	115	KED
|	**Ni -4**	60	124.3	5.5	**0.0688**	0.004	5.9	ug/L	53	KED
|	**Ni -5**	62	23.0	7.5	**0.0894**	0.007	7.3	ug/L	10	KED
|	**As-2**	75	29.3	16.1	**0.1292**	0.019	14.7	ug/L	5	KED
	Y-1	89	54799.3	3.9				ug/L	60452	KED
	Rh-1	103	58243.9	2.6				ug/L	73774	KED
|>	**Ge-1**	72	39609.5	2.8				ug/L	45795	KED
	In-1	115	39112.1	2.3				ug/L	46923	KED
	Sc-2	45	7674.1	3.7				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		86.494
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-03d 25X

Sample Date/Time: Friday, March 08, 2024 09:31:55
Report Date/Time: Friday, March 08, 2024 09:32:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-03d 25X.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	234.8	1.0	**0.0325**	0.001	3.7	ug/L	115	KED
|	**Ni -4**	60	107.3	12.0	**0.0440**	0.010	22.1	ug/L	53	KED
|	**Ni -5**	62	22.0	7.9	**0.0700**	0.009	12.2	ug/L	10	KED
|	**As-2**	75	24.7	26.1	**0.0950**	0.026	27.2	ug/L	5	KED
	Y-1	89	61894.5	0.6				ug/L	60452	KED
	Rh-1	103	65113.7	0.3				ug/L	73774	KED
|>	**Ge-1**	72	45009.1	0.9				ug/L	45795	KED
	In-1	115	42930.7	0.8				ug/L	46923	KED
	Sc-2	45	8621.9	0.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		98.285
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-04d 25X

Sample Date/Time: Friday, March 08, 2024 09:35:03
Report Date/Time: Friday, March 08, 2024 09:35:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-04d 25X.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	999.9	6.8	**0.2410**	0.018	7.4	ug/L	115	KED
|	**Ni -4**	60	276.7	1.8	**0.1439**	0.004	2.9	ug/L	53	KED
|	**Ni -5**	62	41.3	5.0	**0.1383**	0.010	7.2	ug/L	10	KED
|	**As-2**	75	165.3	4.9	**0.5772**	0.032	5.6	ug/L	5	KED
	Y-1	89	67827.0	0.6				ug/L	60452	KED
	Rh-1	103	76679.2	0.4				ug/L	73774	KED
|>	**Ge-1**	72	51030.0	0.8				ug/L	45795	KED
	In-1	115	49694.3	0.5				ug/L	46923	KED
	Sc-2	45	9026.5	0.5				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		111.432
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: 02-208-05d 25X

Sample Date/Time: Friday, March 08, 2024 09:38:11
Report Date/Time: Friday, March 08, 2024 09:39:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\02-208-05d 25X.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	345.3	3.8	**0.0655**	0.004	6.6	ug/L	115	KED
|	**Ni -4**	60	145.7	6.9	**0.0695**	0.008	11.0	ug/L	53	KED
|	**Ni -5**	62	30.3	10.6	**0.1059**	0.015	13.7	ug/L	10	KED
|	**As-2**	75	29.0	19.2	**0.1095**	0.022	20.2	ug/L	5	KED
	Y-1	89	63284.5	0.4				ug/L	60452	KED
	Rh-1	103	66776.4	0.1				ug/L	73774	KED
|>	**Ge-1**	72	46110.3	0.5				ug/L	45795	KED
	In-1	115	44849.3	0.3				ug/L	46923	KED
	Sc-2	45	8891.8	0.1				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		100.689
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 08, 2024 09:41:21
Report Date/Time: Friday, March 08, 2024 09:42:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 6.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	147054.5	2.3	**41.8655**	0.479	1.1	ug/L	115	KED
|	**Ni -4**	60	64165.8	2.6	**41.4303**	0.547	1.3	ug/L	53	KED
|	**Ni -5**	62	9819.4	3.5	**40.9707**	0.748	1.8	ug/L	10	KED
|	**As-2**	75	11595.4	0.8	**40.7943**	0.662	1.6	ug/L	5	KED
	Y-1	89	66851.4	1.9				ug/L	60452	KED
	Rh-1	103	78117.0	1.3				ug/L	73774	KED
|>	**Ge-1**	72	50915.9	2.3				ug/L	45795	KED
	In-1	115	49689.0	1.4				ug/L	46923	KED
	Sc-2	45	9055.2	2.6				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	104.664	
|	Ni -4	60	103.576	
|	Ni -5	62	102.427	
|	As-2	75	101.986	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		111.183
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 08, 2024 09:44:30
Report Date/Time: Friday, March 08, 2024 09:45:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 7.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	74000.9	2.8	**20.5480**	0.191	0.9	ug/L	115	KED
|	**Ni -4**	60	32605.5	3.4	**20.5372**	0.325	1.6	ug/L	53	KED
|	**Ni -5**	62	4892.8	2.4	**19.9229**	0.440	2.2	ug/L	10	KED
|	**As-2**	75	5918.9	1.4	**20.3314**	0.340	1.7	ug/L	5	KED
	Y-1	89	67633.1	2.8				ug/L	60452	KED
	Rh-1	103	79299.9	2.0				ug/L	73774	KED
|>	**Ge-1**	72	52142.0	2.3				ug/L	45795	KED
	In-1	115	50797.4	1.4				ug/L	46923	KED
	Sc-2	45	9316.4	3.0				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58	102.740	
|	Ni -4	60	102.686	
|	Ni -5	62	99.614	
|	As-2	75	101.657	
	Y-1	89		
	Rh-1	103		
|>	Ge-1	72		113.860
	In-1	115		
	Sc-2	45		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 08, 2024 09:47:40
Report Date/Time: Friday, March 08, 2024 09:48:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240308A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240308A\QC Std 8.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni -3**	58	176.5	5.3	**0.0061**	0.004	60.6	ug/L	115	KED
|	**Ni -4**	60	79.0	14.4	**0.0155**	0.007	44.8	ug/L	53	KED
|	**Ni -5**	62	10.7	10.8	**0.0096**	0.005	51.7	ug/L	10	KED
|	**As-2**	75	4.0	43.3	**0.0105**	0.006	55.3	ug/L	5	KED
	Y-1	89	67498.2	3.2				ug/L	60452	KED
	Rh-1	103	79968.3	2.5				ug/L	73774	KED
\>	**Ge-1**	72	52025.6	2.2				ug/L	45795	KED
	In-1	115	50823.5	2.8				ug/L	46923	KED
	Sc-2	45	9178.3	3.3				ug/L	7392	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
\>	Ge-1	72		113.606
	In-1	115		
	Sc-2	45		

Work continued from Page

Std Name		Lab ID	Source	Source ID	Exp	Initial conc ppm	Initial vol mL	Final conc ppm	Final vol mL	Comments	Init	Date
6020 10x		TM12-004-01	IV 6020Cal-1	T2MES726406	2-9-25	20	1.0	2	10	2% HNO3	Kam	3-6-24
6020 100x		02	↓	↓	↓	↓	0.1	.2	↓	↓	↓	↓
Std	1	TM12-004-03	6020 100x	TM12-004-02	3-20-24	.2	.05	.0002	50	5% HNO3	Kam	3-6-24
	2	04	↓	↓		1	.125	.0005				
	3	05	6020 10x	TM12-004-01		2	.05	.002				
	4	06	↓	↓		1	.125	.005				
	5	07	IV 6020Cal-1	T2MES726406	2-9-25	20	.05	.02				
	6	08	↓	↓	↓	↓	.10	.04				
	7	~~Kam 3-8-24~~					.25	.10				
IV		10	IVPECHK1	S2MES709269	5-24-24	10	.25	.05	↓			
Std	1	TM12-004-11	6020 100x	TM12-004-02	3-20-24	.2	.05	.0002	50	5% HNO3	Kam	3-8-24
	2	12	↓	↓		1	.125	.0005				
	3	13	6020 10x	TM12-004-01		2	.05	.002				
	4	14	↓	↓		1	.125	.005				
	5	15	IV 6020Cal-1	T2MES726406	2-9-25	20	.05	.02				
	6	16	↓	↓	↓	↓	.10	.04				
	7	17	~~Kam 3-8-24~~				.25	.10				
IV		18	IVPECHK1	S2MES709269	5-24-24	10	.25	.05	↓			
Std	1	TM12-004-14	6020 100x	TM12-004-02	3-20-24	.2	.05	.0001	50	5% HNO3	Kam	3-12-24
	2	20	↓	↓		1	.125	.0005				
	3	21	6020 10x	TM12-004-01		2	.05	.002				
	4	22	↓	↓		1	.125	.005				
	5	23	IV 6020Cal-1	T2MES726406	2-9-25	20	.05	.02				
	6	24	↓	↓	↓	↓	.10	.04				
	7	~~Kam 3-12-24~~					.25	.10				
IV		26	IVPECHK1	S2MES709269	5-24-24	10	.25	.05	↓			
6020 10x		TM12-004-17	IV 6020Cal-1	T2MES726406	2-9-25	20	1.0	2	10	2% HNO3	Kam	3-12-24
6020 100x		~~Kam 3-8-24~~	↓	↓	↓	↓	0.1	.2	↓	↓	↓	↓

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 4, 2024

Robert Trahan
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-18
Laboratory Reference No. 2405-311

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on May 24, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

Case Narrative

Samples were collected on May 21 and 24, 2024 and received by the laboratory on May 24, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Dissolved Metals by EPA 200.8 Analysis

The dissolved field filter sample MW-8-240521 was received containing solid material. The sample was digested according to OnSite Environmental standard operating procedure.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B-240521	05-311-01	Water	5-21-24	5-24-24	
MW-3A-240521	05-311-02	Water	5-21-24	5-24-24	
MW-8-240521	05-311-03	Water	5-21-24	5-24-24	
MW-6-240524	05-311-04	Water	5-24-24	5-24-24	
DUP-240524	05-311-05	Water	5-24-24	5-24-24	

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240521**					
Laboratory ID:	05-311-01					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
2-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
1-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthylene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Fluorene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Phenanthrene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Anthracene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Fluoranthene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Pyrene	**ND**	0.095	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]anthracene	**0.013**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Chrysene	**0.026**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[b]fluoranthene	**0.024**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]pyrene	**0.015**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Indeno(1,2,3-c,d)pyrene	**0.016**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[g,h,i]perylene	**0.024**	0.0095	EPA 8270E/SIM	5-23-24	5-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*27-106*				
Pyrene-d10	*90*	*37-125*				
Terphenyl-d14	*88*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3A-240521**					
Laboratory ID:	05-311-02					
Naphthalene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
2-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
1-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthylene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Fluorene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Phenanthrene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Anthracene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Fluoranthene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Pyrene	**ND**	0.094	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	5-23-24	5-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*61*	*27-106*				
Pyrene-d10	*88*	*37-125*				
Terphenyl-d14	*84*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8-240521**					
Laboratory ID:	05-311-03					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
2-Methylnaphthalene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
1-Methylnaphthalene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthylene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Fluorene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Phenanthrene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Anthracene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Fluoranthene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Pyrene	**ND**	0.096	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[g,h,i]perylene	**ND**	0.0096	EPA 8270E/SIM	5-23-24	5-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*27-106*				
Pyrene-d10	*88*	*37-125*				
Terphenyl-d14	*91*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-240524**					
Laboratory ID:	05-311-04					
Naphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
2-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
1-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthylene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Fluorene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Phenanthrene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Anthracene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Fluoranthene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Pyrene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*27-106*				
Pyrene-d10	*88*	*37-125*				
Terphenyl-d14	*84*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-240524**					
Laboratory ID:	05-311-05					
Naphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
2-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
1-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthylene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Fluorene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Phenanthrene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Anthracene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Fluoranthene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Pyrene	**ND**	0.093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	5-29-24	5-29-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*47*	*27-106*				
Pyrene-d10	*76*	*37-125*				
Terphenyl-d14	*73*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240521**					
Laboratory ID:	05-311-01					
Arsenic	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**13**	5.6	EPA 200.8	5-29-24	6-1-24	
Client ID:	**MW-3A-240521**					
Laboratory ID:	05-311-02					
Arsenic	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**6.9**	5.6	EPA 200.8	5-29-24	6-1-24	
Client ID:	**MW-8-240521**					
Laboratory ID:	05-311-03					
Arsenic	**19**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Client ID:	**MW-6-240524**					
Laboratory ID:	05-311-04					
Arsenic	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Client ID:	**DUP-240524**					
Laboratory ID:	05-311-05					
Arsenic	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240521**					
Laboratory ID:	05-311-01					
Arsenic	**ND**	5.0	EPA 200.8		6-1-24	
Nickel	**5.2**	5.0	EPA 200.8		6-1-24	
Client ID:	**MW-3A-240521**					
Laboratory ID:	05-311-02					
Arsenic	**ND**	5.0	EPA 200.8		6-1-24	
Nickel	**ND**	5.0	EPA 200.8		6-1-24	
Client ID:	**MW-8-240521**					
Laboratory ID:	05-311-03					
Arsenic	**18**	5.6	EPA 200.8	5-29-24	6-1-24	
Nickel	**ND**	5.6	EPA 200.8	5-29-24	6-1-24	
Client ID:	**MW-6-240524**					
Laboratory ID:	05-311-04					
Arsenic	**ND**	5.0	EPA 200.8		6-1-24	
Nickel	**ND**	5.0	EPA 200.8		6-1-24	
Client ID:	**DUP-240524**					
Laboratory ID:	05-311-05					
Arsenic	**ND**	5.0	EPA 200.8		6-1-24	
Nickel	**ND**	5.0	EPA 200.8		6-1-24	

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
2-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
1-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthylene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Acenaphthene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Fluorene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Phenanthrene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Anthracene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Fluoranthene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Pyrene	**ND**	0.10	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	5-23-24	5-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*44*	*27-106*				
Pyrene-d10	*82*	*37-125*				
Terphenyl-d14	*75*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0523W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.270**	**0.274**	0.500	0.500	54	55	36-95	1	34	
Acenaphthylene	**0.374**	**0.360**	0.500	0.500	75	72	51-103	4	26	
Acenaphthene	**0.326**	**0.311**	0.500	0.500	65	62	47-97	5	25	
Fluorene	**0.338**	**0.328**	0.500	0.500	68	66	51-105	3	23	
Phenanthrene	**0.332**	**0.320**	0.500	0.500	66	64	52-110	4	24	
Anthracene	**0.407**	**0.390**	0.500	0.500	81	78	55-104	4	24	
Fluoranthene	**0.391**	**0.370**	0.500	0.500	78	74	59-111	6	24	
Pyrene	**0.395**	**0.371**	0.500	0.500	79	74	59-110	6	22	
Benzo[a]anthracene	**0.454**	**0.438**	0.500	0.500	91	88	55-116	4	22	
Chrysene	**0.404**	**0.382**	0.500	0.500	81	76	59-111	6	23	
Benzo[b]fluoranthene	**0.445**	**0.428**	0.500	0.500	89	86	62-115	4	27	
Benzo(j,k)fluoranthene	**0.410**	**0.391**	0.500	0.500	82	78	59-117	5	23	
Benzo[a]pyrene	**0.432**	**0.413**	0.500	0.500	86	83	64-109	4	24	
Indeno(1,2,3-c,d)pyrene	**0.441**	**0.432**	0.500	0.500	88	86	58-114	2	22	
Dibenz[a,h]anthracene	**0.437**	**0.423**	0.500	0.500	87	85	63-114	3	24	
Benzo[g,h,i]perylene	**0.424**	**0.411**	0.500	0.500	85	82	61-110	3	24	
Surrogate:										
2-Fluorobiphenyl					*53*	*52*	*27-106*			
Pyrene-d10					*87*	*83*	*37-125*			
Terphenyl-d14					*80*	*79*	*37-110*			

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
2-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
1-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthylene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Acenaphthene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Fluorene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Phenanthrene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Anthracene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Fluoranthene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Pyrene	**ND**	0.10	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	5-29-24	5-29-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*67*	*27-106*				
Pyrene-d10	*86*	*37-125*				
Terphenyl-d14	*82*	*37-110*				

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0529W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.309**	**0.297**	0.500	0.500	62	59	36-95	4	34	
Acenaphthylene	**0.340**	**0.322**	0.500	0.500	68	64	51-103	5	26	
Acenaphthene	**0.283**	**0.286**	0.500	0.500	57	57	47-97	1	25	
Fluorene	**0.312**	**0.327**	0.500	0.500	62	65	51-105	5	23	
Phenanthrene	**0.360**	**0.356**	0.500	0.500	72	71	52-110	1	24	
Anthracene	**0.443**	**0.443**	0.500	0.500	89	89	55-104	0	24	
Fluoranthene	**0.443**	**0.435**	0.500	0.500	89	87	59-111	2	24	
Pyrene	**0.451**	**0.440**	0.500	0.500	90	88	59-110	2	22	
Benzo[a]anthracene	**0.512**	**0.483**	0.500	0.500	102	97	55-116	6	22	
Chrysene	**0.459**	**0.434**	0.500	0.500	92	87	59-111	6	23	
Benzo[b]fluoranthene	**0.509**	**0.469**	0.500	0.500	102	94	62-115	8	27	
Benzo(j,k)fluoranthene	**0.468**	**0.446**	0.500	0.500	94	89	59-117	5	23	
Benzo[a]pyrene	**0.493**	**0.471**	0.500	0.500	99	94	64-109	5	24	
Indeno(1,2,3-c,d)pyrene	**0.528**	**0.477**	0.500	0.500	106	95	58-114	10	22	
Dibenz[a,h]anthracene	**0.494**	**0.468**	0.500	0.500	99	94	63-114	5	24	
Benzo[g,h,i]perylene	**0.482**	**0.455**	0.500	0.500	96	91	61-110	6	24	
Surrogate:										
2-Fluorobiphenyl					*59*	*64*	*27-106*			
Pyrene-d10					*97*	*98*	*37-125*			
Terphenyl-d14					*92*	*89*	*37-110*			

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529WM1					
Arsenic	**ND**	3.3	EPA 200.8	5-29-24	5-31-24	
Nickel	**ND**	22	EPA 200.8	5-29-24	5-31-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-300-07										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	05-300-07										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**110**	**113**	111	111	ND	**99**	**102**	75-125	3	20	
Nickel	**108**	**110**	111	111	ND	**97**	**99**	75-125	2	20	

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV053124Y	50.0	49.6	0.80	+/- 10%
Nickel	ICV053124Y	50.0	48.5	3.0	+/- 10%
Arsenic	CCV1053124Y	40.0	40.9	-2.3	+/- 10%
Nickel	CCV1053124Y	40.0	41.1	-2.8	+/- 10%
	CCV1053124Y				
Arsenic	CCV1053124Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV1053124Y	20.0	19.9	0.50	+/- 10%
Arsenic	CCV2053124Y	40.0	40.3	-0.75	+/- 10%
Nickel	CCV2053124Y	40.0	39.8	0.50	+/- 10%
Arsenic	CCV2053124Y	20.0	19.9	0.50	+/- 10%
Nickel	CCV2053124Y	20.0	20.2	-1.0	+/- 10%

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV060124Y	50.0	49.8	0.40	+/- 10%
Nickel	ICV060124Y	50.0	48.6	2.8	+/- 10%
Arsenic	CCV1060124Y	40.0	39.7	0.75	+/- 10%
Nickel	CCV1060124Y	40.0	39.2	2.0	+/- 10%
Arsenic	CCV1060124Y	20.0	19.9	0.50	+/- 10%
Nickel	CCV1060124Y	20.0	20.3	-1.5	+/- 10%
Arsenic	CCV2060124Y	40.0	38.5	3.8	+/- 10%
Nickel	CCV2060124Y	40.0	41.3	-3.2	+/- 10%
Arsenic	CCV2060124Y	20.0	20.1	-0.50	+/- 10%
Nickel	CCV2060124Y	20.0	21.6	-8.0	+/- 10%
Arsenic	CCV3060124Y	40.0	37.9	5.3	+/- 10%
Nickel	CCV3060124Y	40.0	39.7	0.75	+/- 10%
Arsenic	CCV3060124Y	20.0	18.6	7.0	+/- 10%
Nickel	CCV3060124Y	20.0	19.7	1.5	+/- 10%

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0529WM1					
Arsenic	**ND**	3.3	EPA 200.8	5-29-24	5-31-24	
Nickel	**ND**	22	EPA 200.8	5-29-24	5-31-24	
Laboratory ID:	MB0529F1					
Arsenic	**ND**	3.0	EPA 200.8	5-29-24	6-1-24	
Nickel	**ND**	20	EPA 200.8	5-29-24	6-1-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-300-07										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	05-353-02										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	05-300-07										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**110**	**113**	111	111	ND	**99**	**102**	75-125	3	20	
Nickel	**108**	**110**	111	111	ND	**97**	**99**	75-125	2	20	
Laboratory ID:	05-353-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**76.2**	**77.6**	80.0	80.0	ND	**95**	**97**	75-125	2	20	
Nickel	**66.4**	**67.0**	80.0	80.0	ND	**83**	**84**	75-125	1	20	

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV053124Y	50.0	49.6	0.80	+/- 10%
Nickel	ICV053124Y	50.0	48.5	3.0	+/- 10%
Arsenic	CCV1053124Y	40.0	40.9	-2.3	+/- 10%
Nickel	CCV1053124Y	40.0	41.1	-2.8	+/- 10%
	CCV1053124Y				
Arsenic	CCV1053124Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV1053124Y	20.0	19.9	0.50	+/- 10%
Arsenic	CCV2053124Y	40.0	40.3	-0.75	+/- 10%
Nickel	CCV2053124Y	40.0	39.8	0.50	+/- 10%
Arsenic	CCV2053124Y	20.0	19.9	0.50	+/- 10%
Nickel	CCV2053124Y	20.0	20.2	-1.0	+/- 10%

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV060124Y	50.0	49.1	1.8	+/- 10%
Nickel	ICV060124Y	50.0	49.4	1.2	+/- 10%
Arsenic	CCV1060124Y	40.0	39.5	1.3	+/- 10%
Nickel	CCV1060124Y	40.0	39.6	1.0	+/- 10%
Arsenic	CCV1060124Y	20.0	19.6	2.0	+/- 10%
Nickel	CCV1060124Y	20.0	19.7	1.5	+/- 10%
Arsenic	CCV2060124Y	40.0	38.5	3.8	+/- 10%
Nickel	CCV2060124Y	40.0	36.7	8.2	+/- 10%
Arsenic	CCV2060124Y	20.0	19.7	1.5	+/- 10%
Nickel	CCV2060124Y	20.0	18.3	8.5	+/- 10%
Arsenic	CCV3060124Y	40.0	41.1	-2.8	+/- 10%
Nickel	CCV3060124Y	40.0	36.5	8.8	+/- 10%
Arsenic	CCV3060124Y	20.0	20.4	-2.0	+/- 10%
Nickel	CCV3060124Y	20.0	18.5	7.5	+/- 10%

Date of Report: June 4, 2024
Samples Submitted: May 24, 2024
Laboratory Reference: 2405-311
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV060124Y	50.0	49.8	0.40	+/- 10%
Nickel	ICV060124Y	50.0	48.6	2.8	+/- 10%
Arsenic	CCV1060124Y	40.0	39.7	0.75	+/- 10%
Nickel	CCV1060124Y	40.0	39.2	2.0	+/- 10%
Arsenic	CCV1060124Y	20.0	19.9	0.50	+/- 10%
Nickel	CCV1060124Y	20.0	20.3	-1.5	+/- 10%
Arsenic	CCV2060124Y	40.0	38.5	3.8	+/- 10%
Nickel	CCV2060124Y	40.0	41.3	-3.2	+/- 10%
Arsenic	CCV2060124Y	20.0	20.1	-0.50	+/- 10%
Nickel	CCV2060124Y	20.0	21.6	-8.0	+/- 10%
Arsenic	CCV3060124Y	40.0	37.9	5.3	+/- 10%
Nickel	CCV3060124Y	40.0	39.7	0.75	+/- 10%
Arsenic	CCV3060124Y	20.0	18.6	7.0	+/- 10%
Nickel	CCV3060124Y	20.0	19.7	1.5	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5147-006-18
Project Name: Dakota Creek Industries
Project Manager: Robert Trahan
Sampled by: Michael Ysaguirre

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 05-311

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total & Dissolved Arsenic + Nickel by EPA Method 200.8				% Moisture
1	MW-2B- 240521	5/21/24	1400	H_2O	3									X									X				
2	MW-3A- 240521	〃	1250	〃	〃									X									X				
3	MW-8- 240521	〃	1540	〃	〃									X									X				
4	MW-6- 240524	5/24/24	1100	H_2O	4									X									X				
5	DUP- 240524	〃	1110	〃	〃									X									X				

	Signature	Company	Date	Time
Relinquished		GeoEngineers	5/22/24	0938
Received		OSE	5/22/24	0938
Relinquished		GeoEngineers	5/24/24	1315
Received		OSE	5/24/24	1315
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☒ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-18

OnSite Project Number: 05-311

Initiated by: MV

Date Initiated: 5/22/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	4
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-18

OnSite Project Number: 05-311

Initiated by: MV

Date Initiated: 5/24/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature: 6	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

COMPLETE DATA PACKAGE

- PAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals by EPA 200.8

PAHs EPA 8270E/SIM

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523018.D
Acq On : 23 May 2024 5:47 pm
Operator : JP
Sample : 05-311-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 08:13:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	4.744	136	320885	2000.00	ppb		-0.05
5) Acenaphthene-d10	5.990	164	164163	2000.00	ppb		-0.05
9) Phenanthrene-d10	7.034	188	290416	2000.00	ppb		-0.05
16) Chrysene-d12	9.449	240	212172	2000.00	ppb		-0.06
20) Perylene-d12	11.040	264	201610	2000.00	ppb		-0.06
System Monitoring Compounds							
6) 2-Fluorobiphenyl	5.512	172	97257	649.68	ppb		-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 64.97%				
10) Pyrene-d10	8.210	212	109580	900.13	ppb		-0.05
Spiked Amount 1000.000	Range 40 - 110		Recovery = 90.01%				
17) Terphenyl-d14	8.363	244	82809	877.12	ppb		-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 87.71%				
Target Compounds							Qvalue
2) Naphthalene	4.759	128	3225	17.05	ppb		91
7) Acenaphthylene	5.890	152	3842	19.51	ppb		100
8) Acenaphthene	6.005	153	2370	18.78	ppb		100
12) Phenanthrene	7.046	178	7207	32.74	ppb		65
13) Anthracene	7.086	178	10081	54.31	ppb		91
14) Fluoranthene	8.017	202	16120	75.64	ppb	#	1
15) Pyrene	8.219	202	16617	77.54	ppb		92
18) Benzo[a]anthracene	9.438	228	3108	13.36	ppb		92
19) Chrysene	9.473	228	4825	27.65	ppb		92
21) Benzo[b]fluoranthene	10.610	252	3977m	25.38	ppb		
23) Benzo[a]pyrene	10.970	252	2230	16.22	ppb		99
24) Indeno(1,2,3-c,d)pyrene	12.458	276	2239	16.87	ppb		81
26) Benzo[g,h,i]perylene	12.874	276	3670	25.34	ppb	#	1

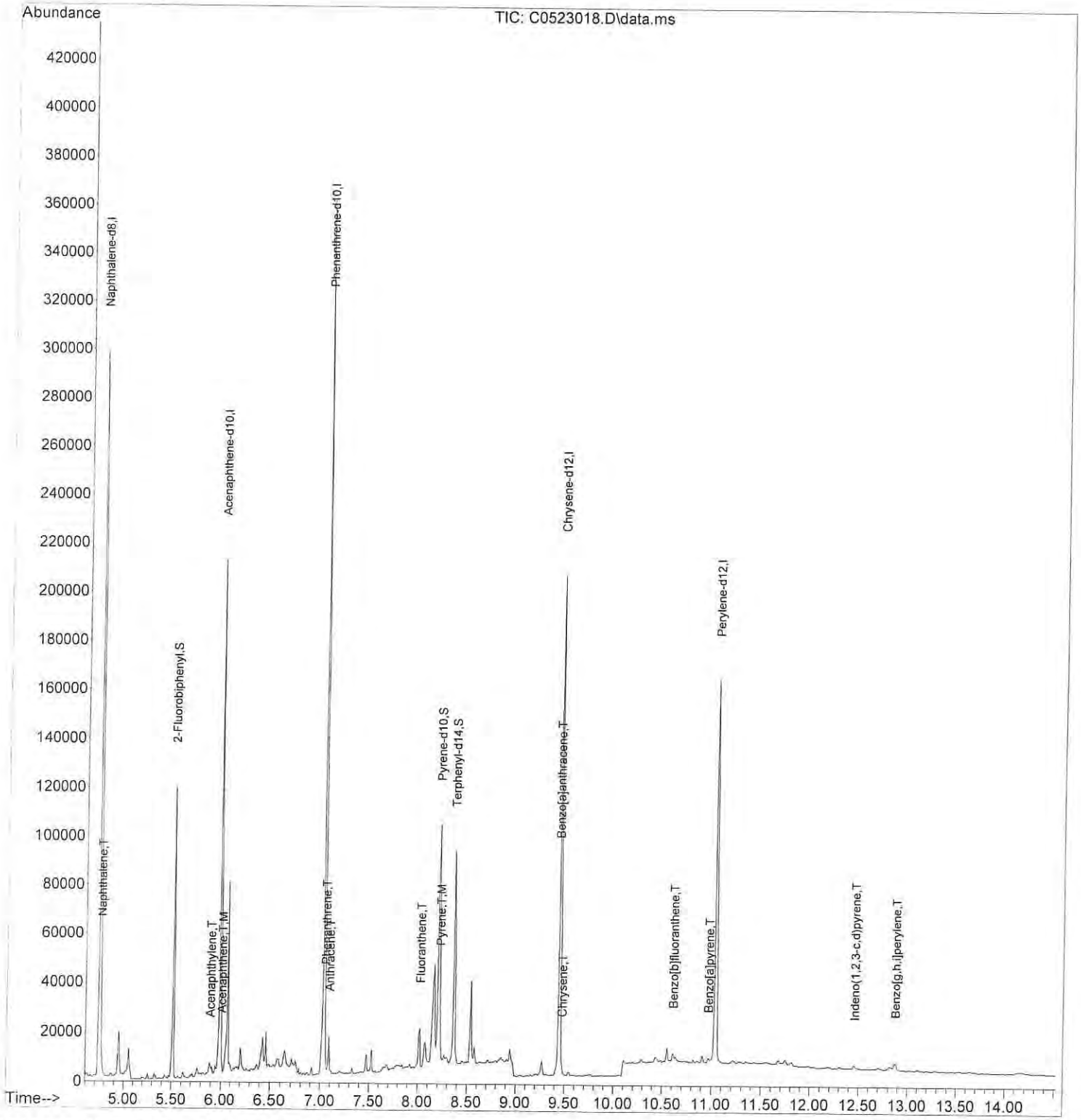
(#) = qualifier out of range (m) = manual integration (+) = signals summed

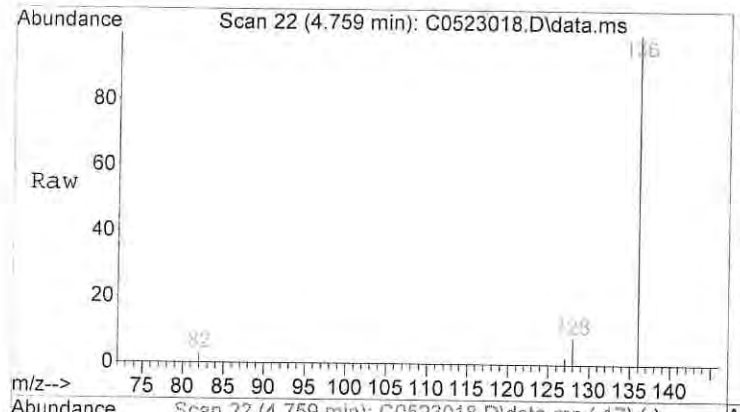
JD
5/28/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523018.D
Acq On : 23 May 2024 5:47 pm
Operator : JP
Sample : 05-311-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 08:13:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

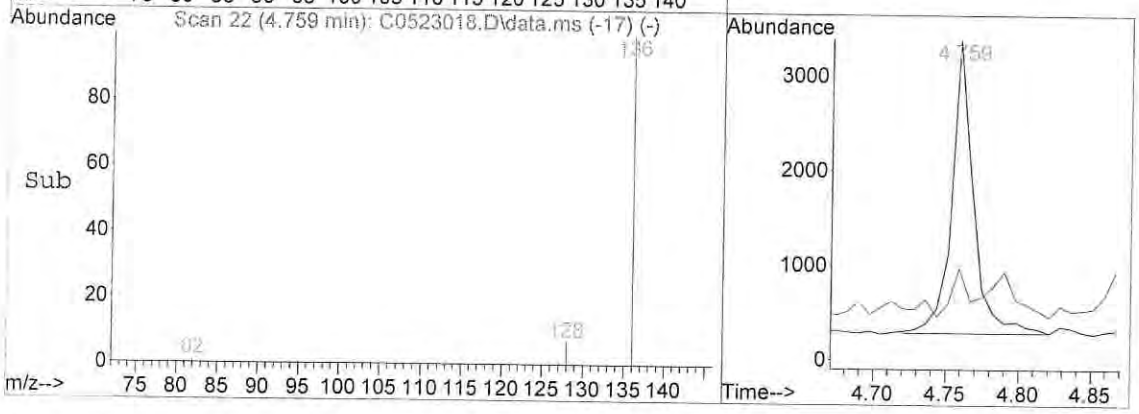


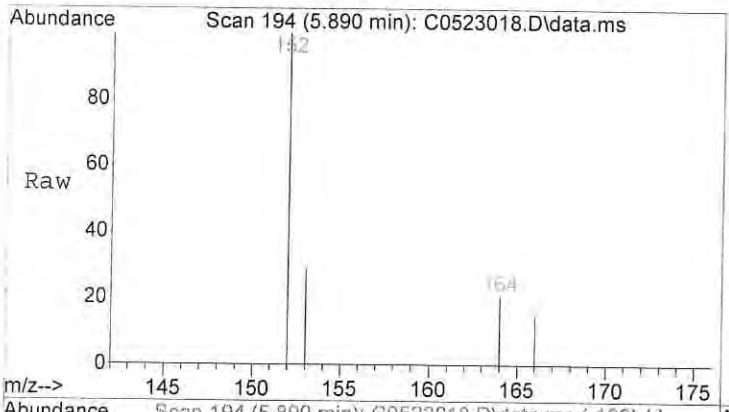


#2
Naphthalene
Concen: 17.05 ppb
RT: 4.759 min Scan# 22
Delta R.T. -0.046 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:128 Resp: 3225

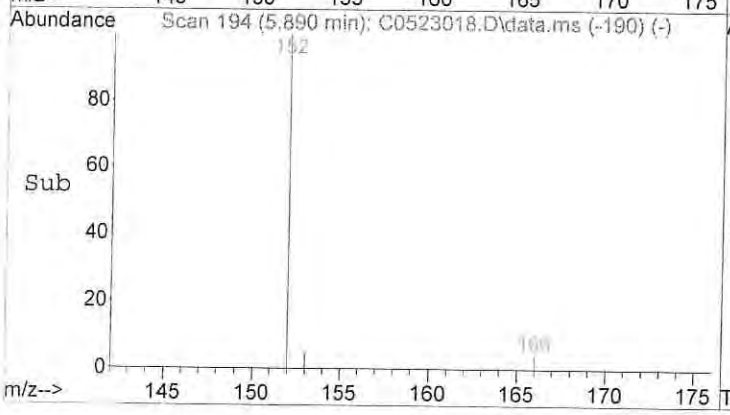
Ion	Ratio	Lower	Upper
128	100		
127	15.9	0.0	32.5

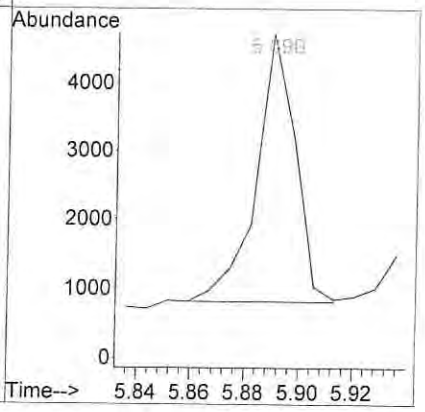


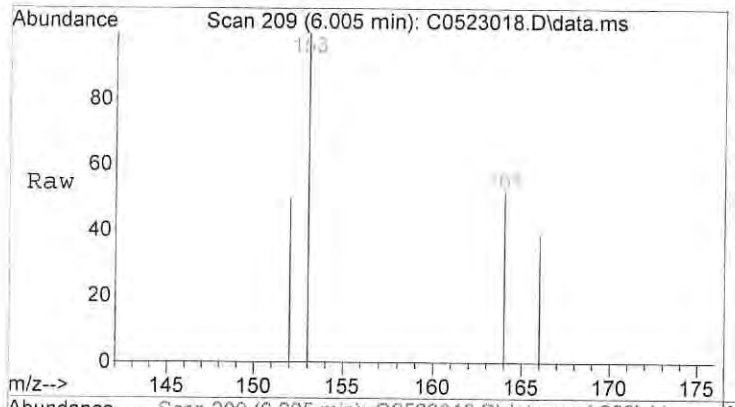


#7
Acenaphthylene
Concen: 19.51 ppb
RT: 5.890 min Scan# 194
Delta R.T. -0.046 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:152 Resp: 3842

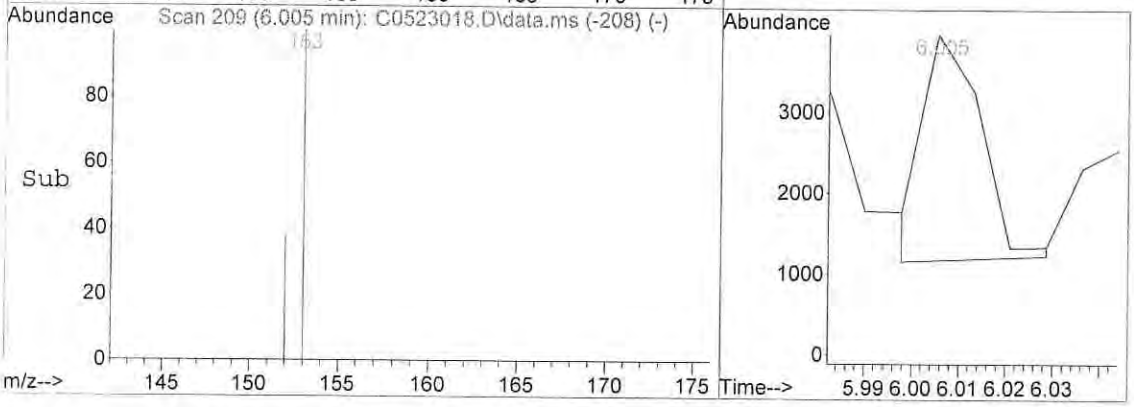


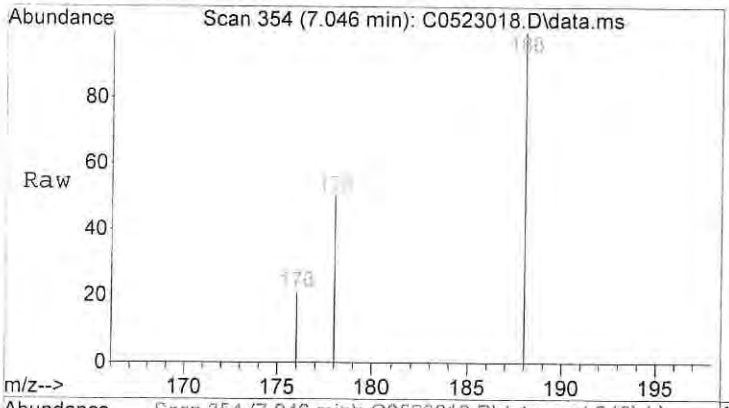




#8
Acenaphthene
Concen: 18.78 ppb
RT: 6.005 min Scan# 209
Delta R.T. -0.053 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:153 Resp: 2370

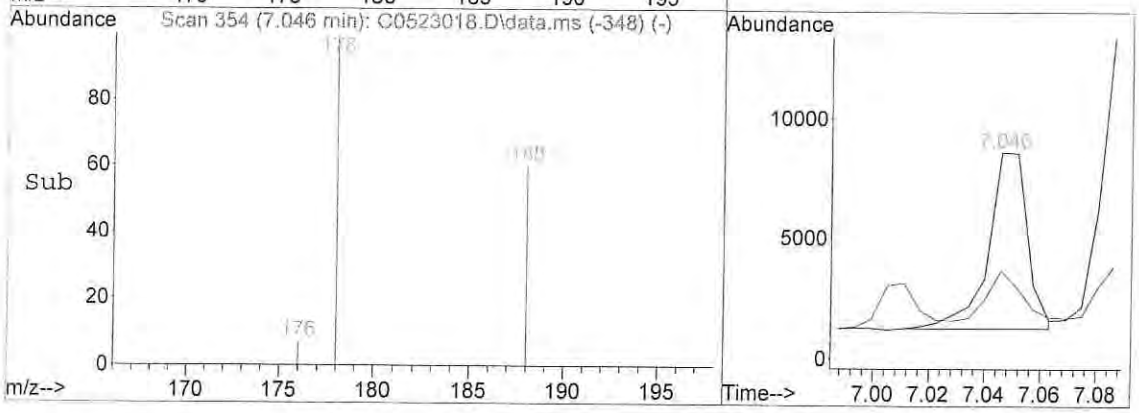


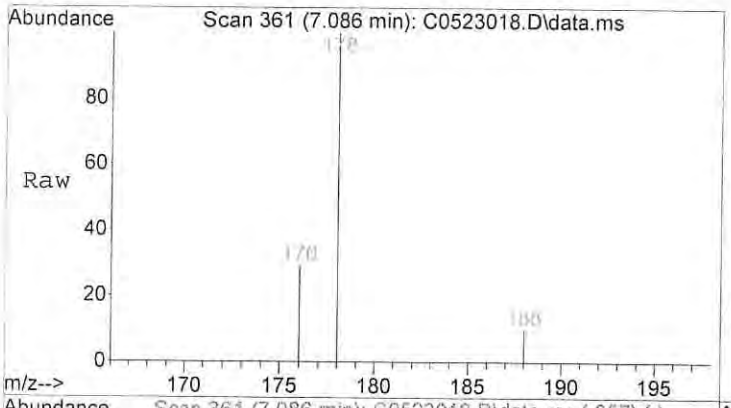


#12
Phenanthrene
Concen: 32.74 ppb
RT: 7.046 min Scan# 354
Delta R.T. -0.052 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:178 Resp: 7207

Ion	Ratio	Lower	Upper
178	100		
176	33.9	0.0	38.2

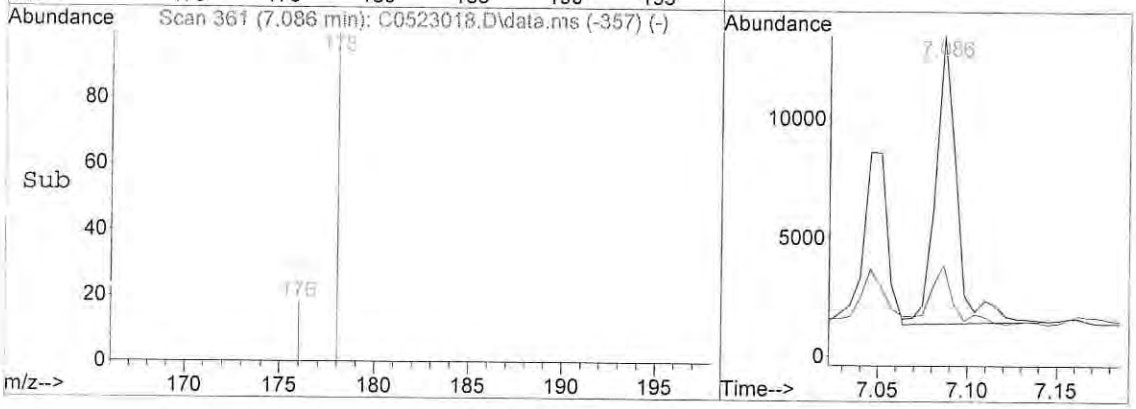


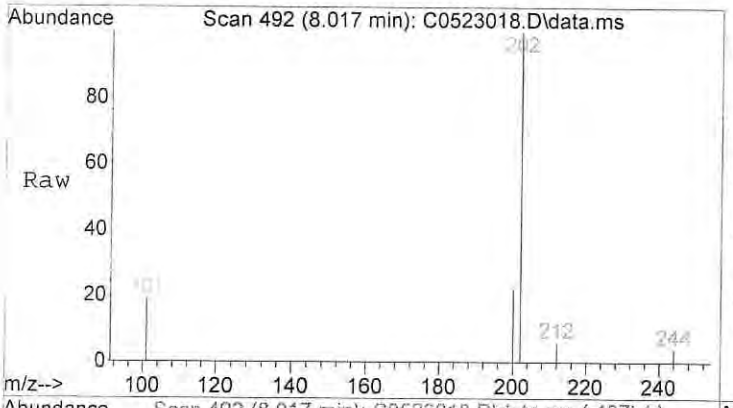


#13
Anthracene
Concen: 54.31 ppb
RT: 7.086 min Scan# 361
Delta R.T. -0.052 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:178 Resp: 10081

Ion	Ratio	Lower	Upper
178	100		
176	21.9	0.0	37.7

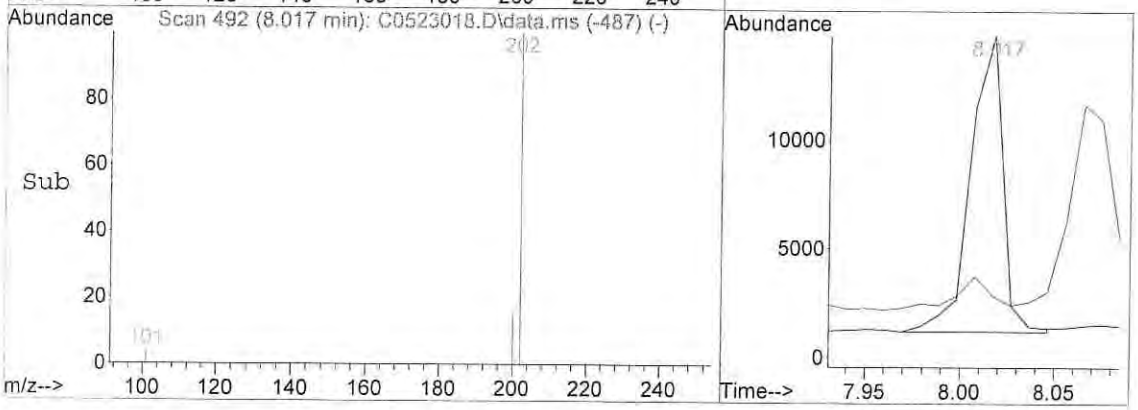


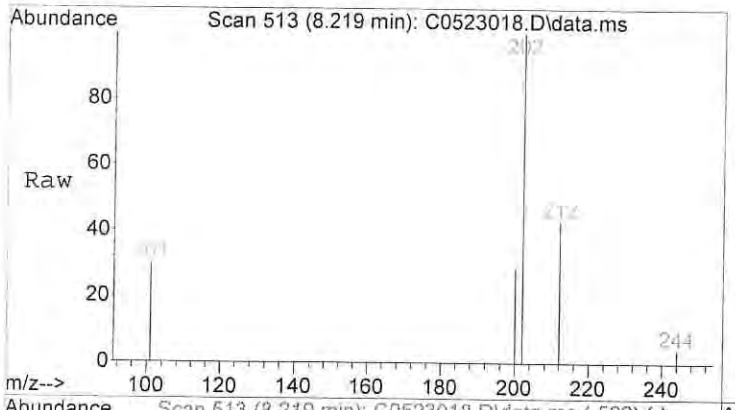


#14
Fluoranthene
Concen: 75.64 ppb
RT: 8.017 min Scan# 492
Delta R.T. -0.047 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:202 Resp: 16120

Ion	Ratio	Lower	Upper
202	100		
101	111.5	0.0	31.5#

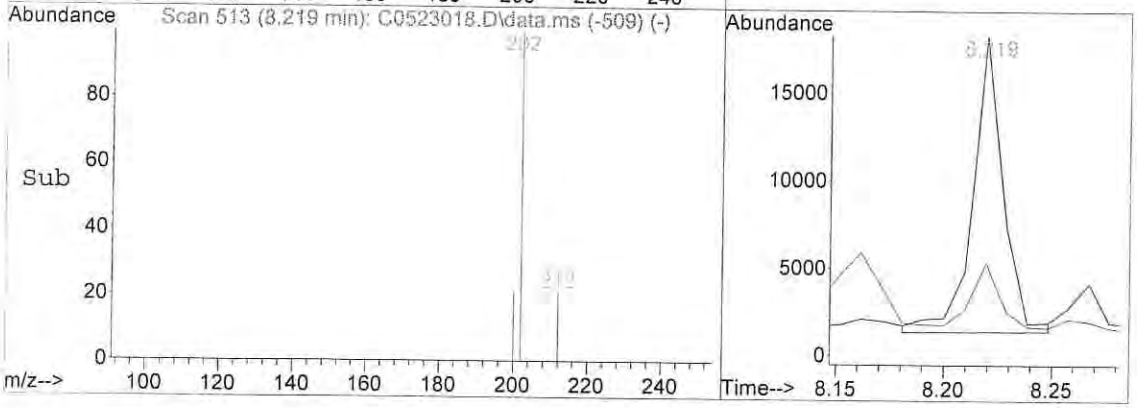


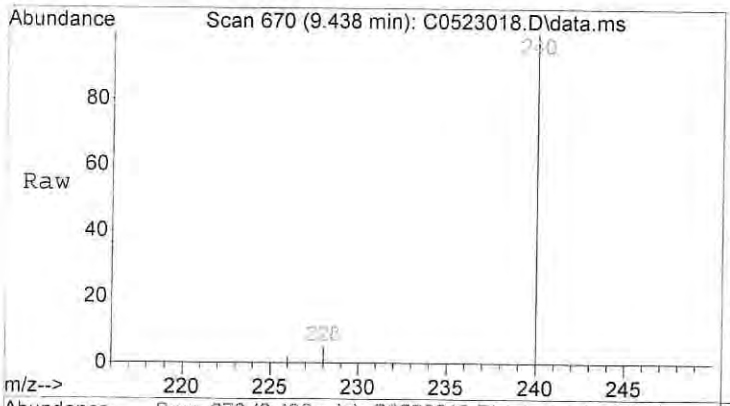


#15
Pyrene
Concen: 77.54 ppb
RT: 8.219 min Scan# 513
Delta R.T. -0.057 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:202 Resp: 16617

Ion	Ratio	Lower	Upper
202	100		
200	23.4	0.0	39.9

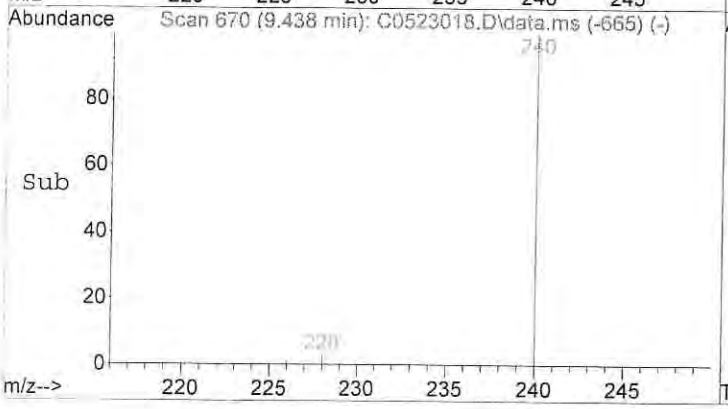


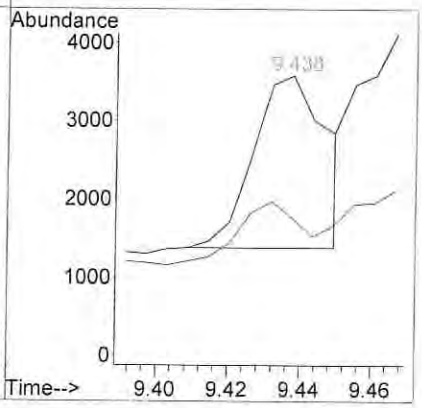


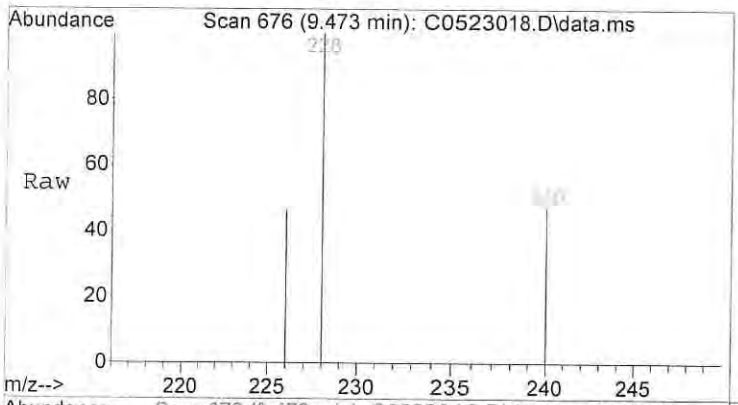
#18
Benzo[a]anthracene
Concen: 13.36 ppb
RT: 9.438 min Scan# 670
Delta R.T. -0.052 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:228 Resp: 3108

Ion	Ratio	Lower	Upper
228	100		
226	29.5	5.3	45.3



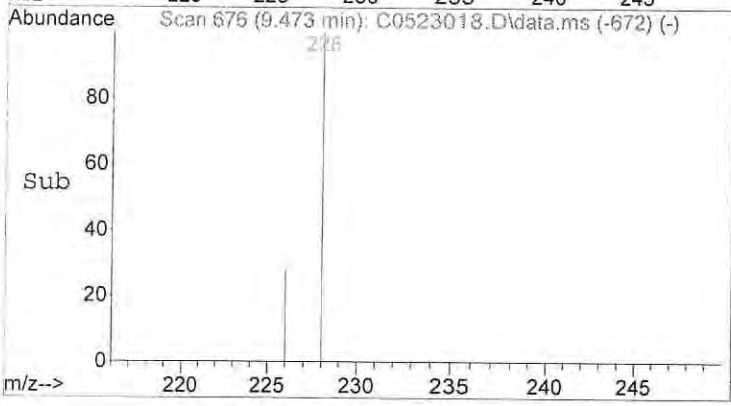


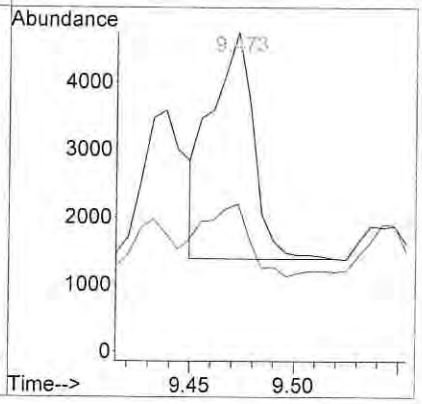


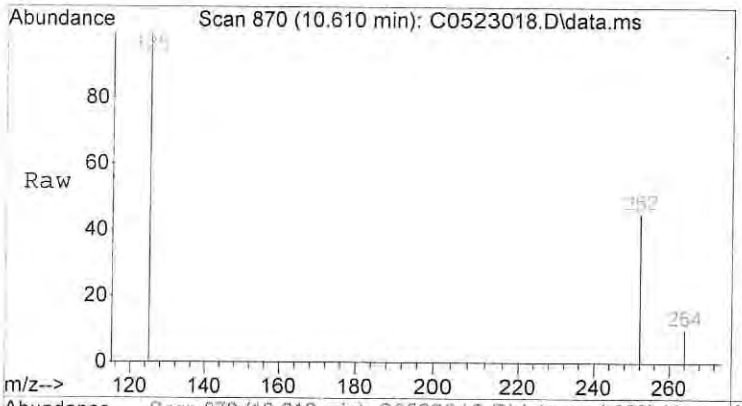
#19
Chrysene
Concen: 27.65 ppb
RT: 9.473 min Scan# 676
Delta R.T. -0.057 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:228 Resp: 4825

Ion	Ratio	Lower	Upper
228	100		
226	32.7	8.7	48.7



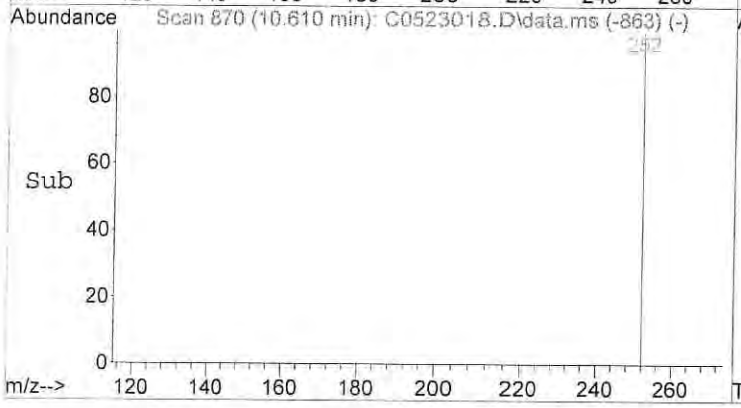


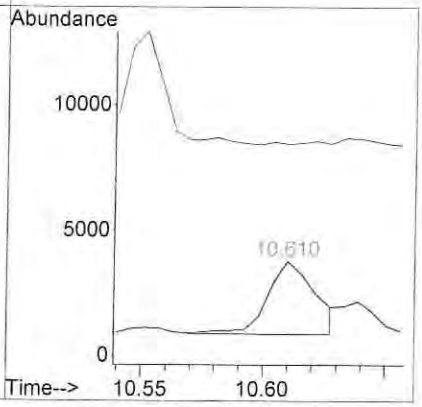


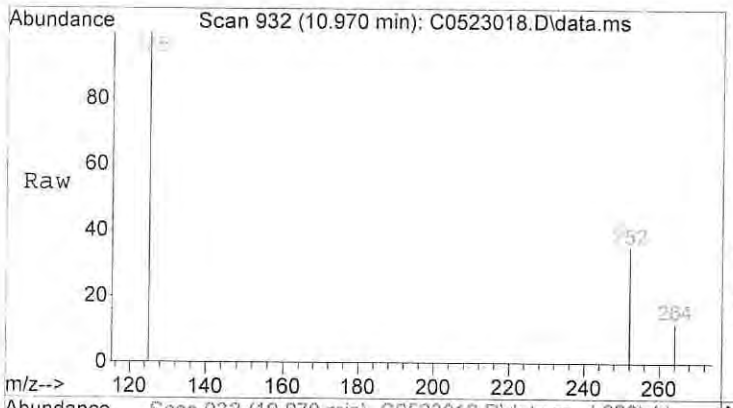
#21
Benzo[b]fluoranthene
Concen: 25.38 ppb m
RT: 10.610 min Scan# 870
Delta R.T. -0.057 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:252 Resp: 3977

Ion	Ratio	Lower	Upper
252	100		
125	0.0	0.0	31.5



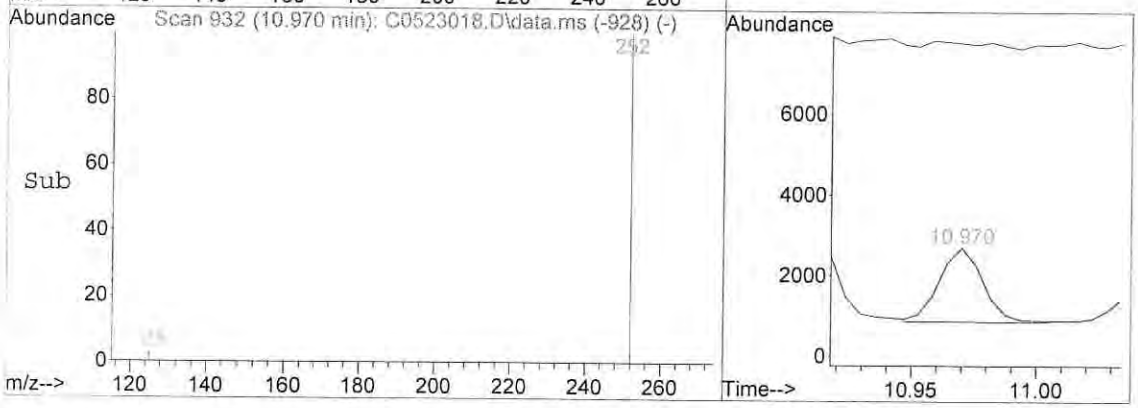


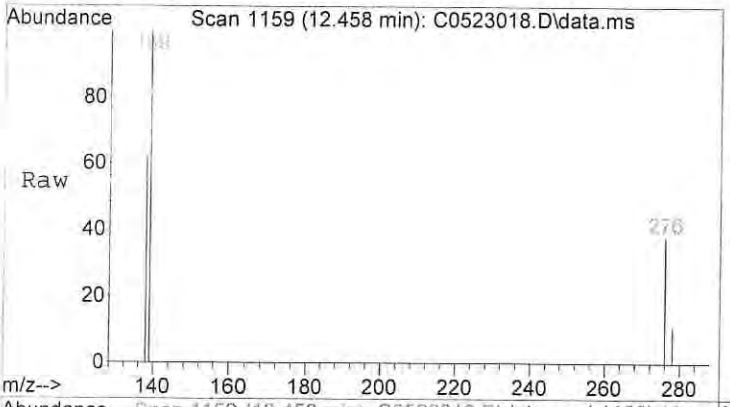


#23
Benzo[a]pyrene
Concen: 16.22 ppb
RT: 10.970 min Scan# 932
Delta R.T. -0.057 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:252 Resp: 2230

Ion	Ratio	Lower	Upper
252	100		
125	12.8	0.0	32.5

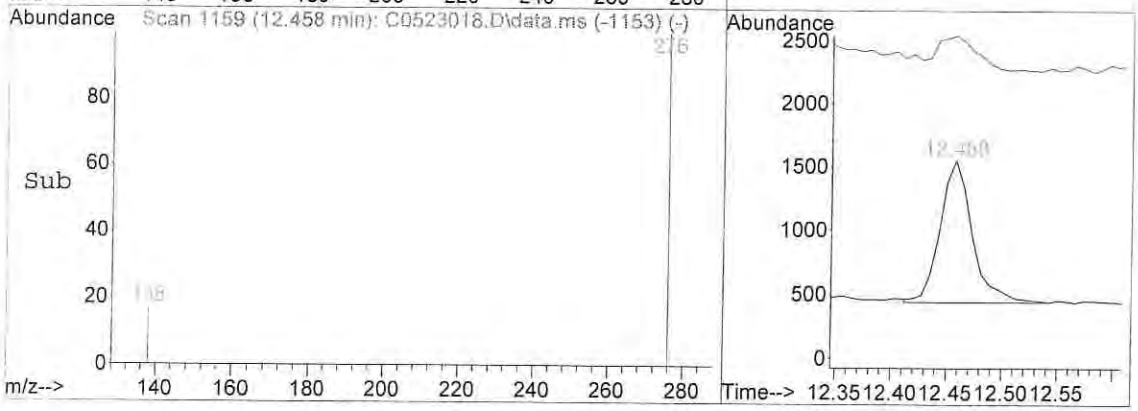


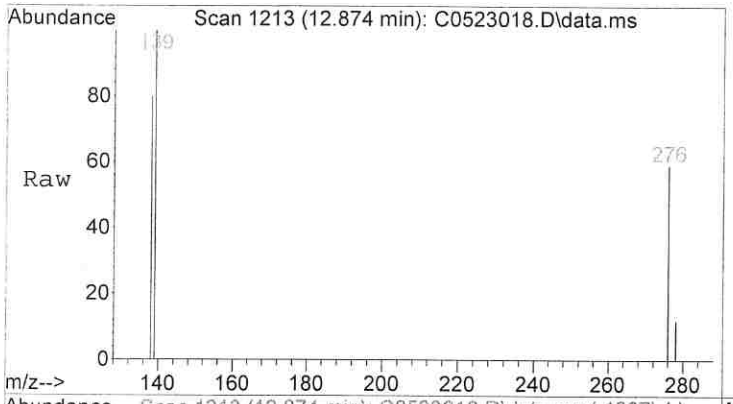


#24
Indeno(1,2,3-c,d)pyrene
Concen: 16.87 ppb
RT: 12.458 min Scan# 1159
Delta R.T. -0.076 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:276 Resp: 2239

Ion	Ratio	Lower	Upper
276	100		
138	31.4	2.5	42.5

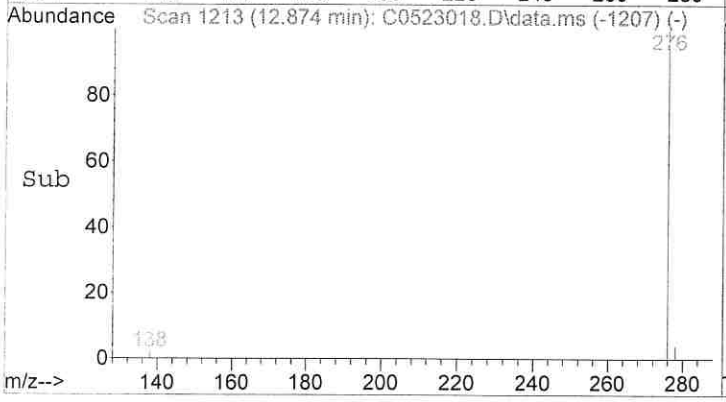


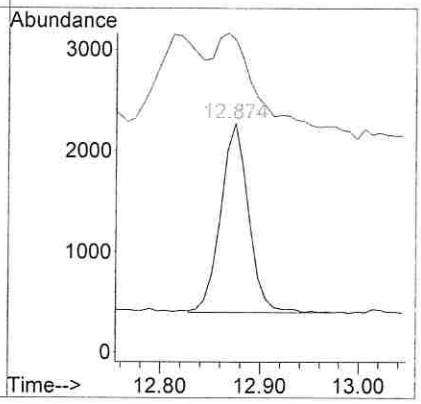


#26
Benzo[g,h,i]perylene
Concen: 25.34 ppb
RT: 12.874 min Scan# 1213
Delta R.T. -0.084 min
Lab File: C0523018.D
Acq: 23 May 24 5:47 pm

Tgt Ion:276 Resp: 3670

Ion	Ratio	Lower	Upper
276	100		
138	86.2	4.1	44.1#





Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523017.D
Acq On : 23 May 2024 5:25 pm
Operator : JP
Sample : 05-311-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 08:12:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.743	136	320006	2000.00	ppb	-0.06
5) Acenaphthene-d10	5.990	164	167736	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.029	188	304365	2000.00	ppb	-0.06
16) Chrysene-d12	9.438	240	228506	2000.00	ppb	-0.07
20) Perylene-d12	11.022	264	230004	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.513	172	93270	609.77	ppb	-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 60.98%			
10) Pyrene-d10	8.201	212	112150	879.02	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.90%			
17) Terphenyl-d14	8.364	244	85513	841.02	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 84.10%			
Target Compounds						Qvalue

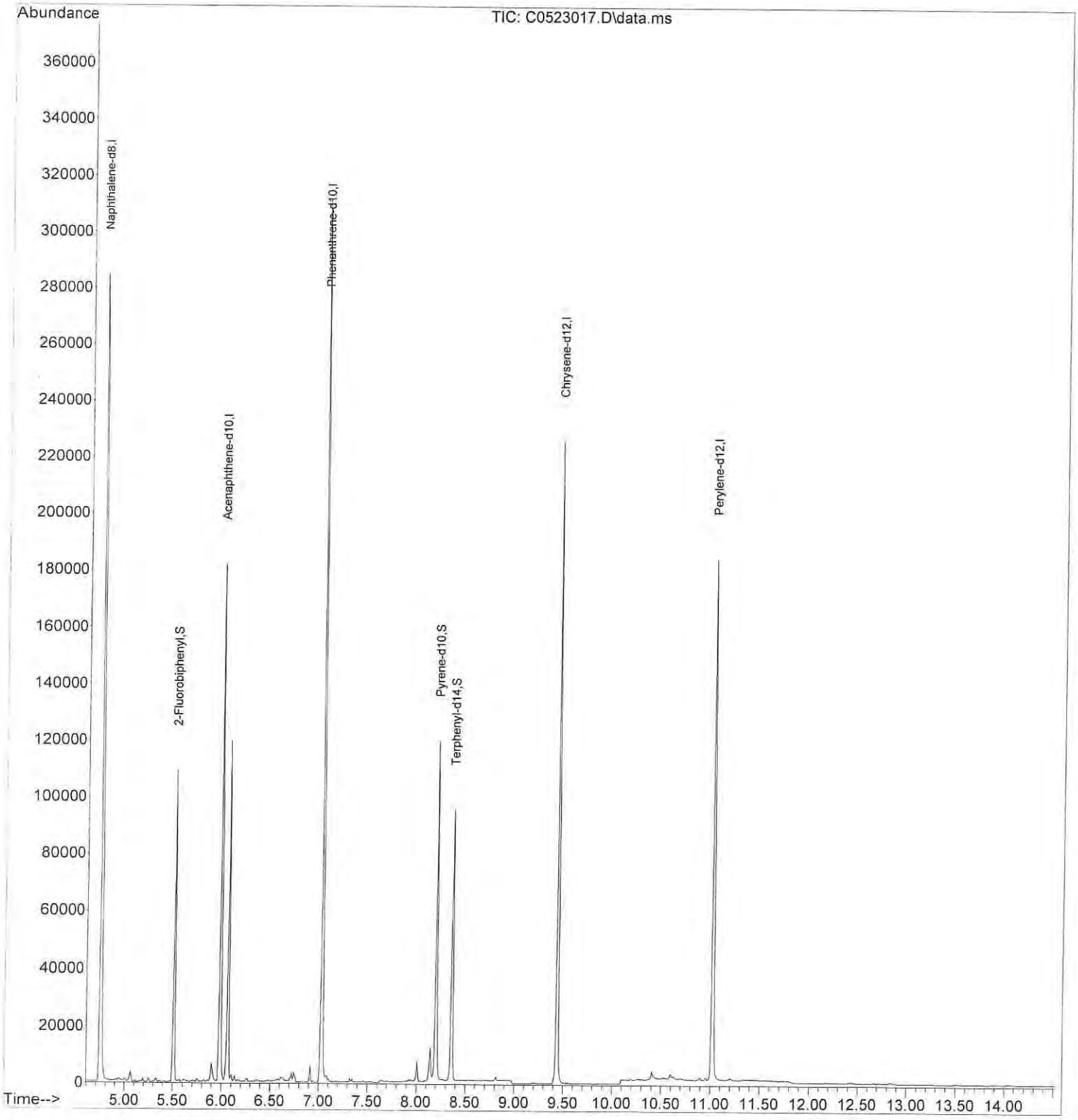
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/28/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523017.D
Acq On : 23 May 2024 5:25 pm
Operator : JP
Sample : 05-311-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 08:12:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523019.D
Acq On : 23 May 2024 6:09 pm
Operator : JP
Sample : 05-311-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 18:24:10 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.751	136	308423	2000.00	ppb	-0.05
5) Acenaphthene-d10	5.990	164	161608	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.034	188	291771	2000.00	ppb	-0.05
16) Chrysene-d12	9.444	240	213146	2000.00	ppb	-0.06
20) Perylene-d12	11.034	264	210726	2000.00	ppb	-0.07
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.518	172	95168	645.78	ppb	-0.04
Spiked Amount 1000.000	Range 25 - 89		Recovery = 64.58%			
10) Pyrene-d10	8.210	212	107155	876.12	ppb	-0.05
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.61%			
17) Terphenyl-d14	8.363	244	86217	909.04	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 90.90%			
Target Compounds						Qvalue

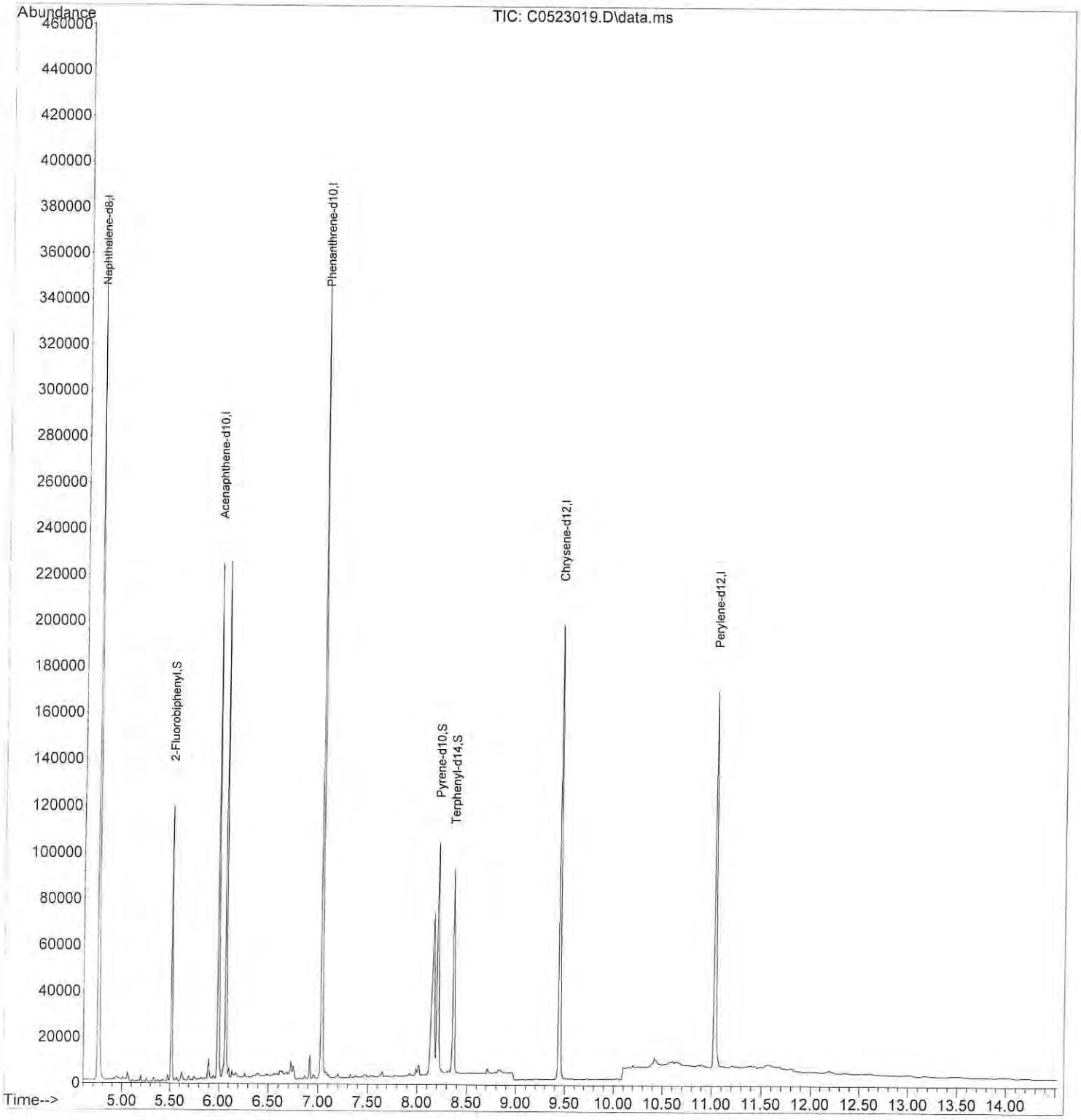
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/28/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523019.D
Acq On : 23 May 2024 6:09 pm
Operator : JP
Sample : 05-311-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 18:24:10 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529006.D
Acq On : 29 May 2024 12:28 pm
Operator : JP
Sample : 05-311-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 12:42:42 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.644	136	278423	2000.00	ppb	0.00
5) Acenaphthene-d10	5.883	164	145115	2000.00	ppb	0.00
9) Phenanthrene-d10	6.922	188	263089	2000.00	ppb	0.00
16) Chrysene-d12	9.298	240	201788	2000.00	ppb	0.02
20) Perylene-d12	10.858	264	206315	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.413	172	74911	566.09	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 56.61%			
10) Pyrene-d10	8.074	212	96530	875.29	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.53%			
17) Terphenyl-d14	8.237	244	75074	836.11	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 83.61%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

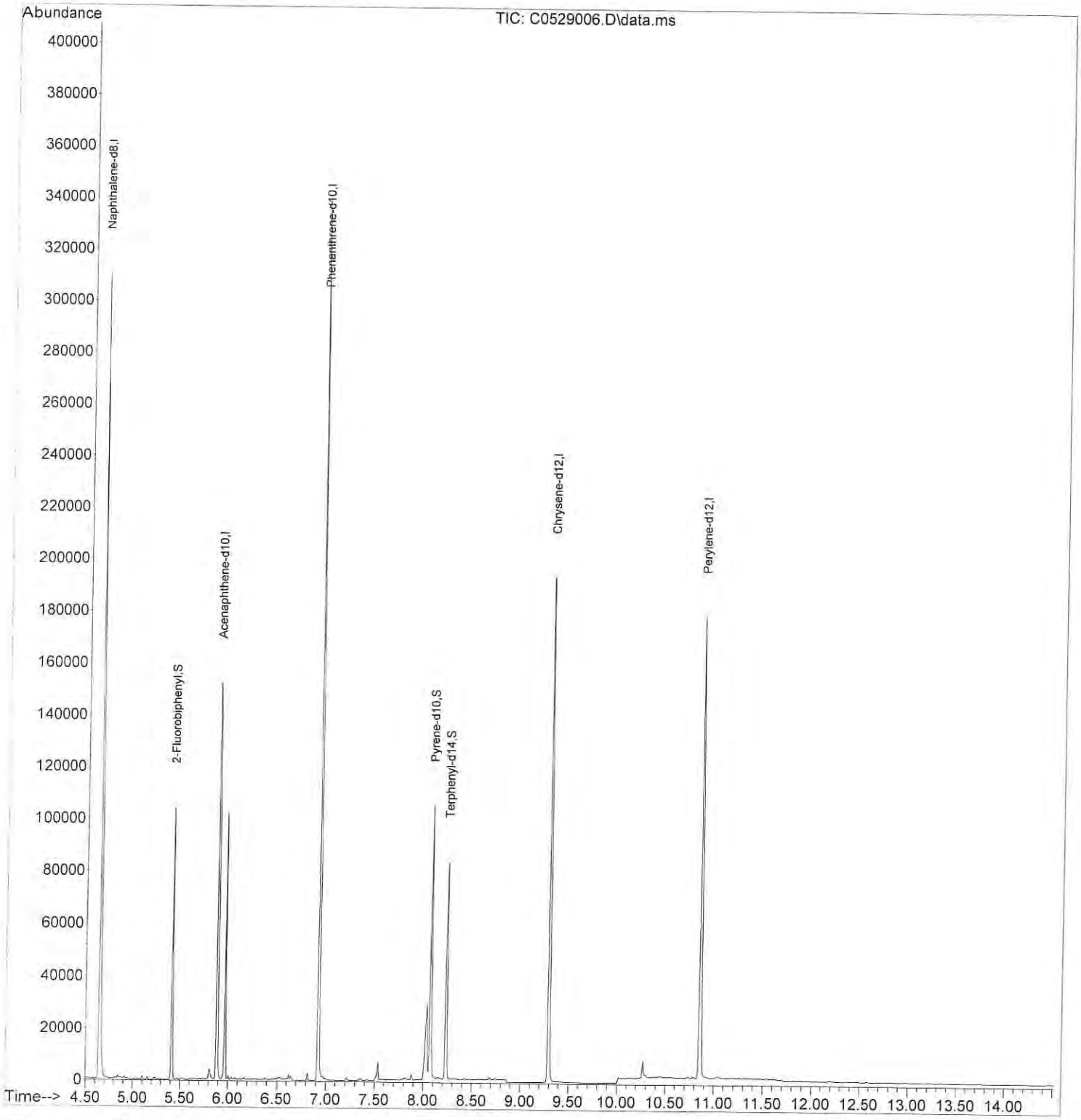
JJ

5/30/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529006.D
Acq On : 29 May 2024 12:28 pm
Operator : JP
Sample : 05-311-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 12:42:42 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529007.D
Acq On : 29 May 2024 12:50 pm
Operator : JP
Sample : 05-311-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 13:04:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.642	136	284961	2000.00	ppb	0.00
5) Acenaphthene-d10	5.882	164	150022	2000.00	ppb	0.00
9) Phenanthrene-d10	6.923	188	274572	2000.00	ppb	0.00
16) Chrysene-d12	9.292	240	213806	2000.00	ppb	0.01
20) Perylene-d12	10.858	264	217635	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.414	172	64056	468.23	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 46.82%			
10) Pyrene-d10	8.074	212	87704	762.00	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 76.20%			
17) Terphenyl-d14	8.237	244	69006	725.33	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 72.53%			
Target Compounds						Qvalue

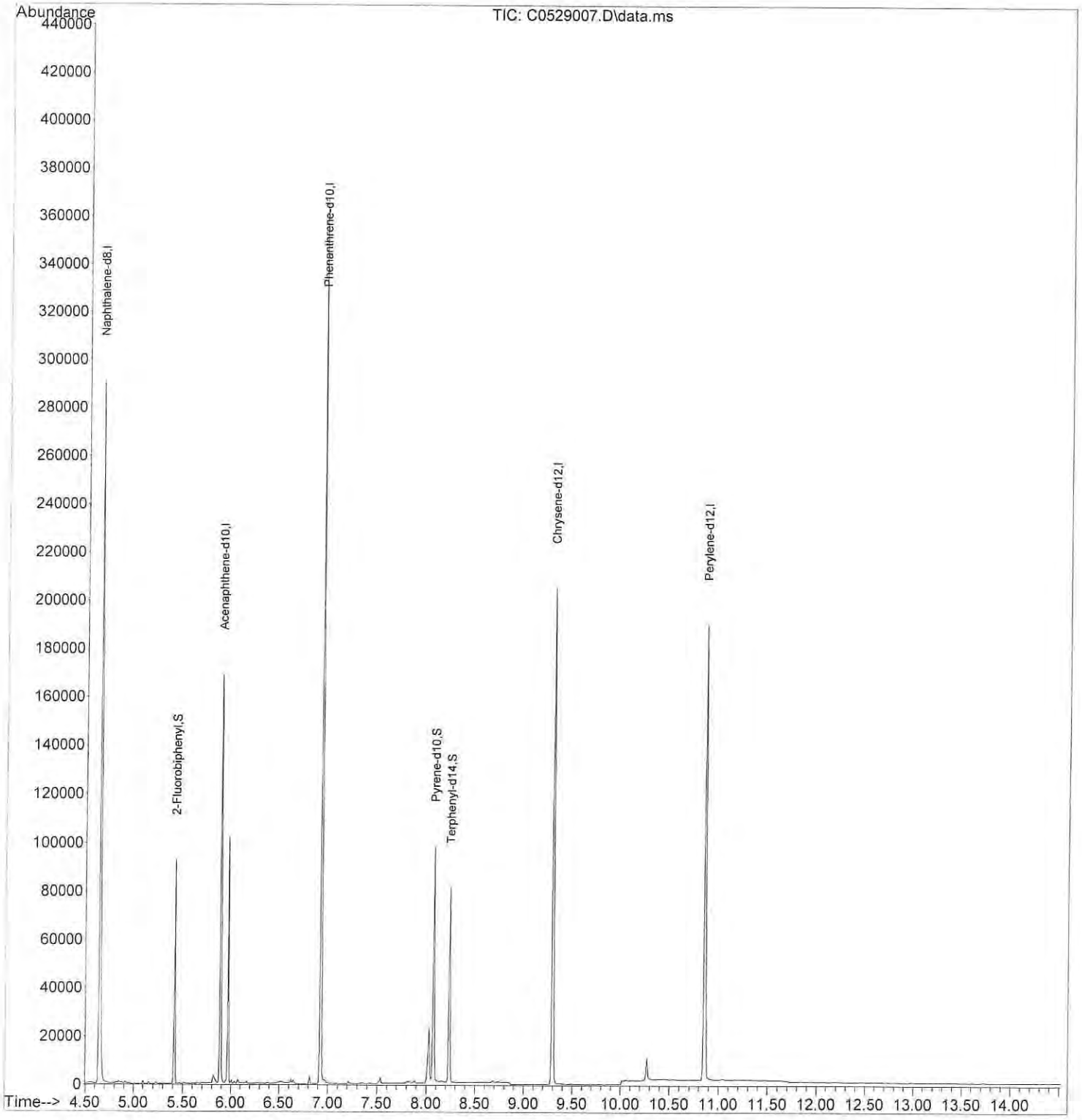
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/30/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529007.D
Acq On : 29 May 2024 12:50 pm
Operator : JP
Sample : 05-311-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 13:04:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523011.D
Acq On : 23 May 2024 3:13 pm
Operator : JP
Sample : MB0523W1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 15:28:15 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.744	136	297748	2000.00	ppb	-0.05
5) Acenaphthene-d10	5.989	164	153773	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.034	188	285727	2000.00	ppb	-0.05
16) Chrysene-d12	9.437	240	219990	2000.00	ppb	-0.07
20) Perylene-d12	11.021	264	220429	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.514	172	62280	444.14	ppb	-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 44.41%			
10) Pyrene-d10	8.200	212	98377	821.37	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 82.14%			
17) Terphenyl-d14	8.363	244	73892	754.86	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 75.49%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	9.437	228	830	Below Cal		80

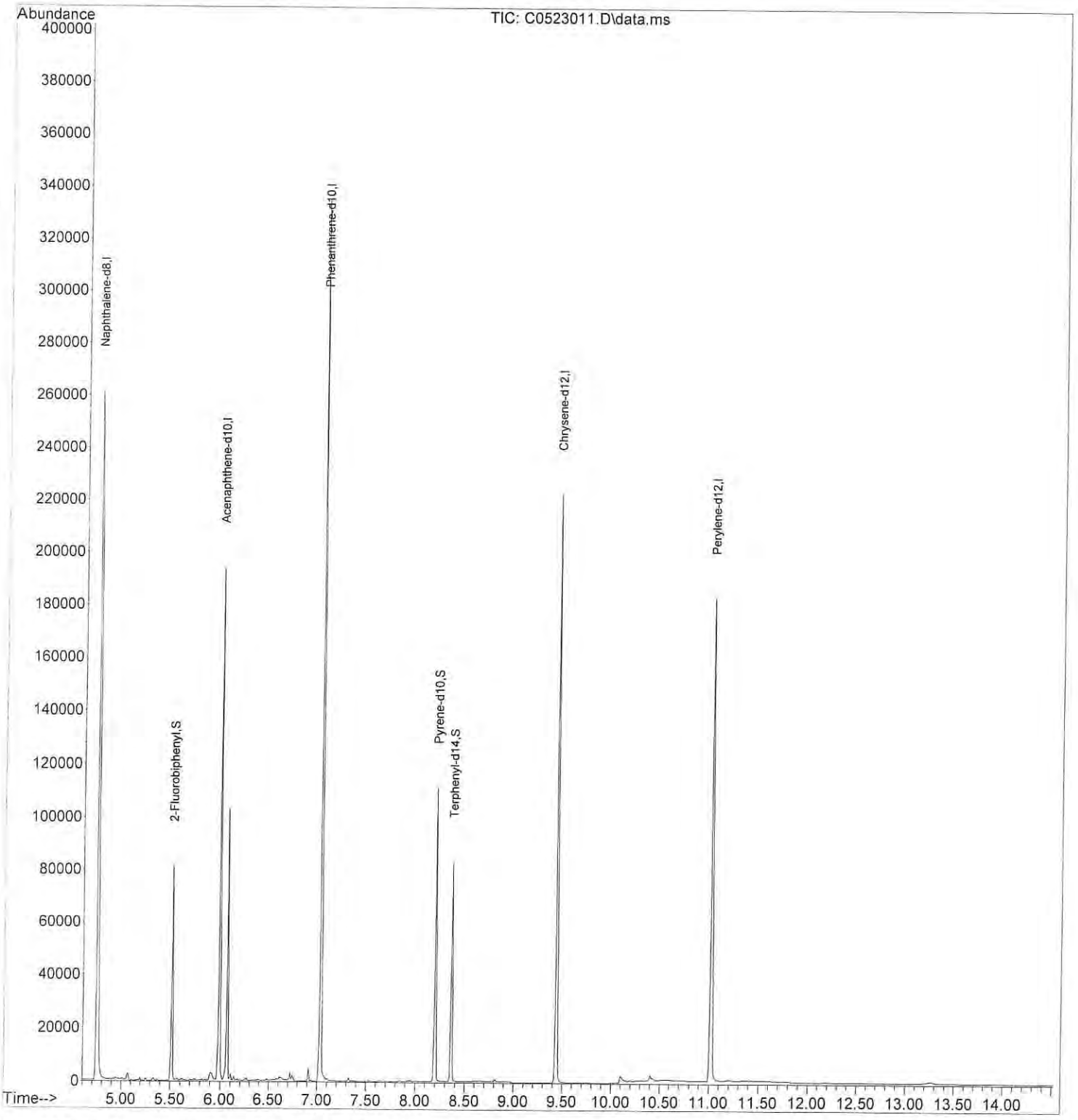
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JJ
5/28/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523011.D
Acq On : 23 May 2024 3:13 pm
Operator : JP
Sample : MB0523W1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 15:28:15 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529005.D
Acq On : 29 May 2024 12:05 pm
Operator : JP
Sample : MB0529W1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 12:20:36 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.645	136	284983	2000.00	ppb	0.00
5) Acenaphthene-d10	5.882	164	152642	2000.00	ppb	0.00
9) Phenanthrene-d10	6.922	188	278616	2000.00	ppb	0.00
16) Chrysene-d12	9.292	240	214499	2000.00	ppb	0.01
20) Perylene-d12	10.858	264	218577	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.414	172	93751	673.53	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 67.35%			
10) Pyrene-d10	8.073	212	100794	863.02	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 86.30%			
17) Terphenyl-d14	8.237	244	78498	822.44	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 82.24%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	9.292	228	942	Below Cal		65

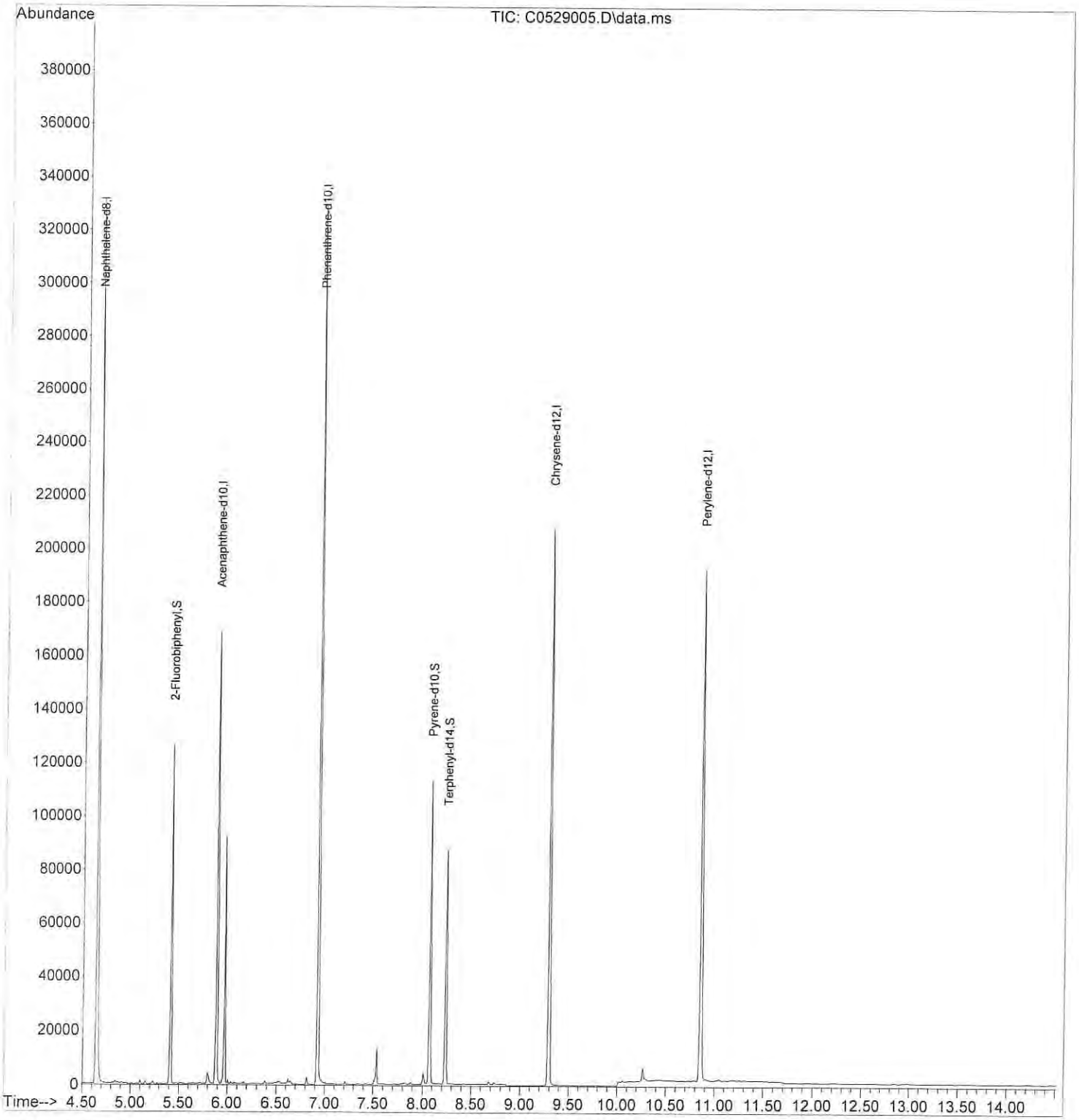
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/30/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529005.D
Acq On : 29 May 2024 12:05 pm
Operator : JP
Sample : MB0529W1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 12:20:36 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523008.D
Acq On : 23 May 2024 2:07 pm
Operator : JP
Sample : SB0523W1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 14:38:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.751	136	299140	2000.00	ppb	-0.05
5) Acenaphthene-d10	5.989	164	155777	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.033	188	283677	2000.00	ppb	-0.05
16) Chrysene-d12	9.439	240	217717	2000.00	ppb	-0.07
20) Perylene-d12	11.021	264	218936	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.513	172	74683	525.74	ppb	-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.57%			
10) Pyrene-d10	8.201	212	103857	873.39	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 87.34%			
17) Terphenyl-d14	8.364	244	77180	796.68	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.67%			
Target Compounds						Qvalue
2) Naphthalene	4.758	128	47675	270.43	ppb	96
3) 2-Methylnaphthalene	5.258	142	29590	264.94	ppb	98
4) 1-Methylnaphthalene	5.327	142	31198	282.95	ppb	99
7) Acenaphthylene	5.889	152	69981	374.48	ppb	100
8) Acenaphthene	6.012	153	38985	325.55	ppb	100
11) Fluorene	6.374	166	48404	337.80	ppb	100
12) Phenanthrene	7.044	178	71498	332.47	ppb	95
13) Anthracene	7.085	178	73847	407.27	ppb	95
14) Fluoranthene	8.009	202	81437	391.19	ppb	93
15) Pyrene	8.211	202	82598	394.61	ppb	95
18) Benzo[a]anthracene	9.421	228	73031	453.76	ppb	94
19) Chrysene	9.462	228	72327	403.90	ppb	94
21) Benzo[b]fluoranthene	10.597	252	75667	444.68	ppb	98
22) Benzo(j,k)fluoranthene	10.626	252	74823	410.33	ppb	97
23) Benzo[a]pyrene	10.951	252	64555	432.45	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.427	276	63558m	440.96	ppb	
25) Dibenz[a,h]anthracene	12.466	278	65989	436.66	ppb	94
26) Benzo[g,h,i]perylene	12.836	276	66703	424.19	ppb	96

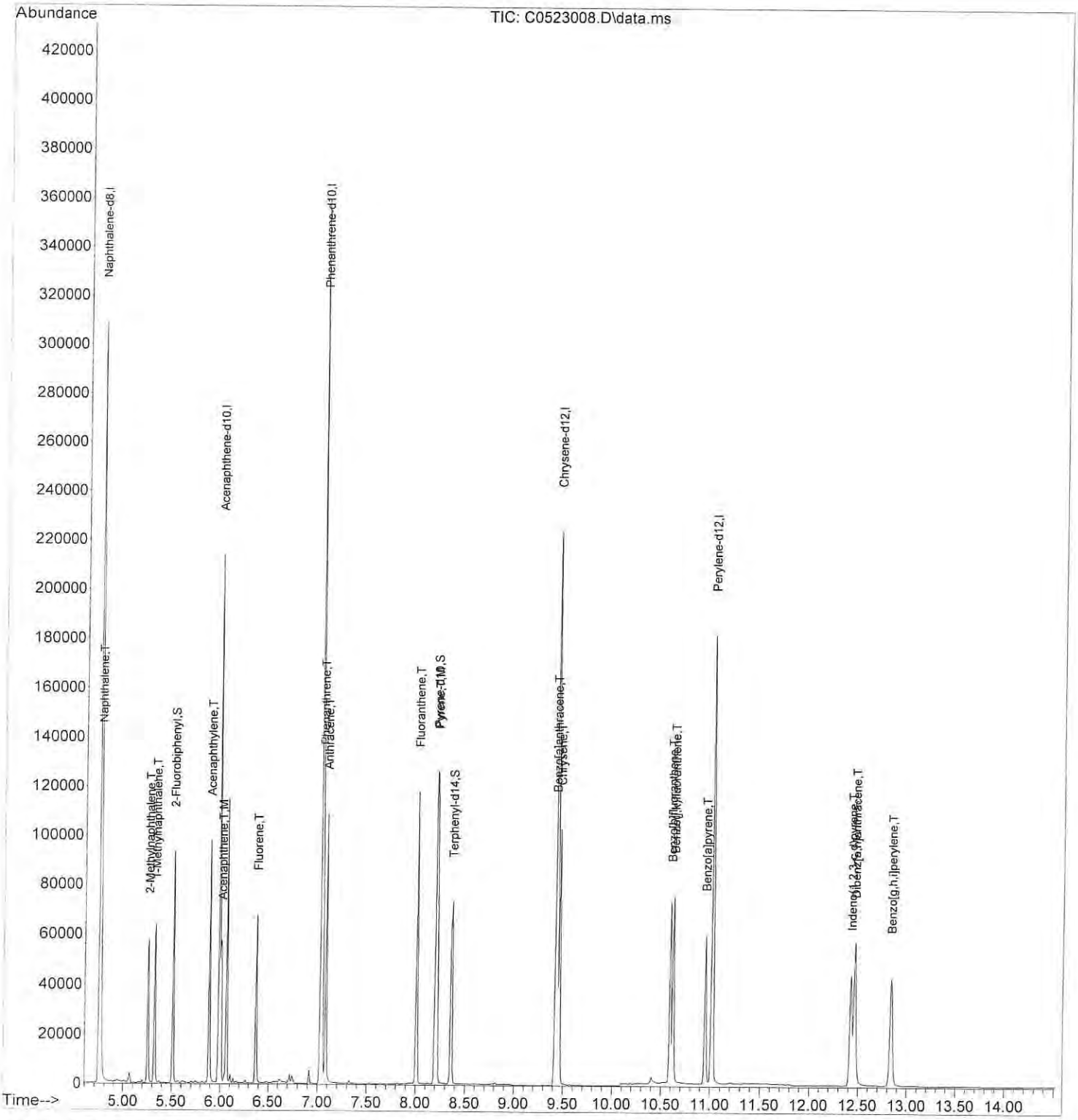
JP
5/28/24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523008.D
Acq On : 23 May 2024 2:07 pm
Operator : JP
Sample : SB0523W1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 14:38:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523009.D
Acq On : 23 May 2024 2:29 pm
Operator : JP
Sample : SB0523W1 DUP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 14:46:12 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.751	136	294596	2000.00	ppb	-0.05
5) Acenaphthene-d10	5.989	164	154901	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.033	188	284962	2000.00	ppb	-0.05
16) Chrysene-d12	9.439	240	220319	2000.00	ppb	-0.07
20) Perylene-d12	11.022	264	221546	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.514	172	74042	524.18	ppb	-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 52.42%			
10) Pyrene-d10	8.200	212	99154	830.08	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 83.01%			
17) Terphenyl-d14	8.363	244	77042	785.86	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 78.59%			
Target Compounds						Qvalue
2) Naphthalene	4.758	128	47555	273.91	ppb	96
3) 2-Methylnaphthalene	5.252	142	28710	261.02	ppb	98
4) 1-Methylnaphthalene	5.328	142	30724	282.95	ppb	98
7) Acenaphthylene	5.889	152	66850	359.75	ppb	100
8) Acenaphthene	6.012	153	37000	310.72	ppb	100
11) Fluorene	6.375	166	47154	327.60	ppb	100
12) Phenanthrene	7.045	178	69164	320.17	ppb	95
13) Anthracene	7.085	178	71053	390.09	ppb	95
14) Fluoranthene	8.007	202	77413	370.18	ppb	93
15) Pyrene	8.219	202	78103	371.45	ppb	95
18) Benzo[a]anthracene	9.427	228	71363	437.93	ppb	93
19) Chrysene	9.462	228	69151	381.60	ppb	95
21) Benzo[b]fluoranthene	10.592	252	73692	427.97	ppb	95
22) Benzo(j,k)fluoranthene	10.627	252	72098	390.73	ppb	95
23) Benzo[a]pyrene	10.952	252	62461	413.50	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.428	276	62952m	431.61	ppb	
25) Dibenz[a,h]anthracene	12.467	278	64686	423.00	ppb	95
26) Benzo[g,h,i]perylene	12.837	276	65471	411.45	ppb	95

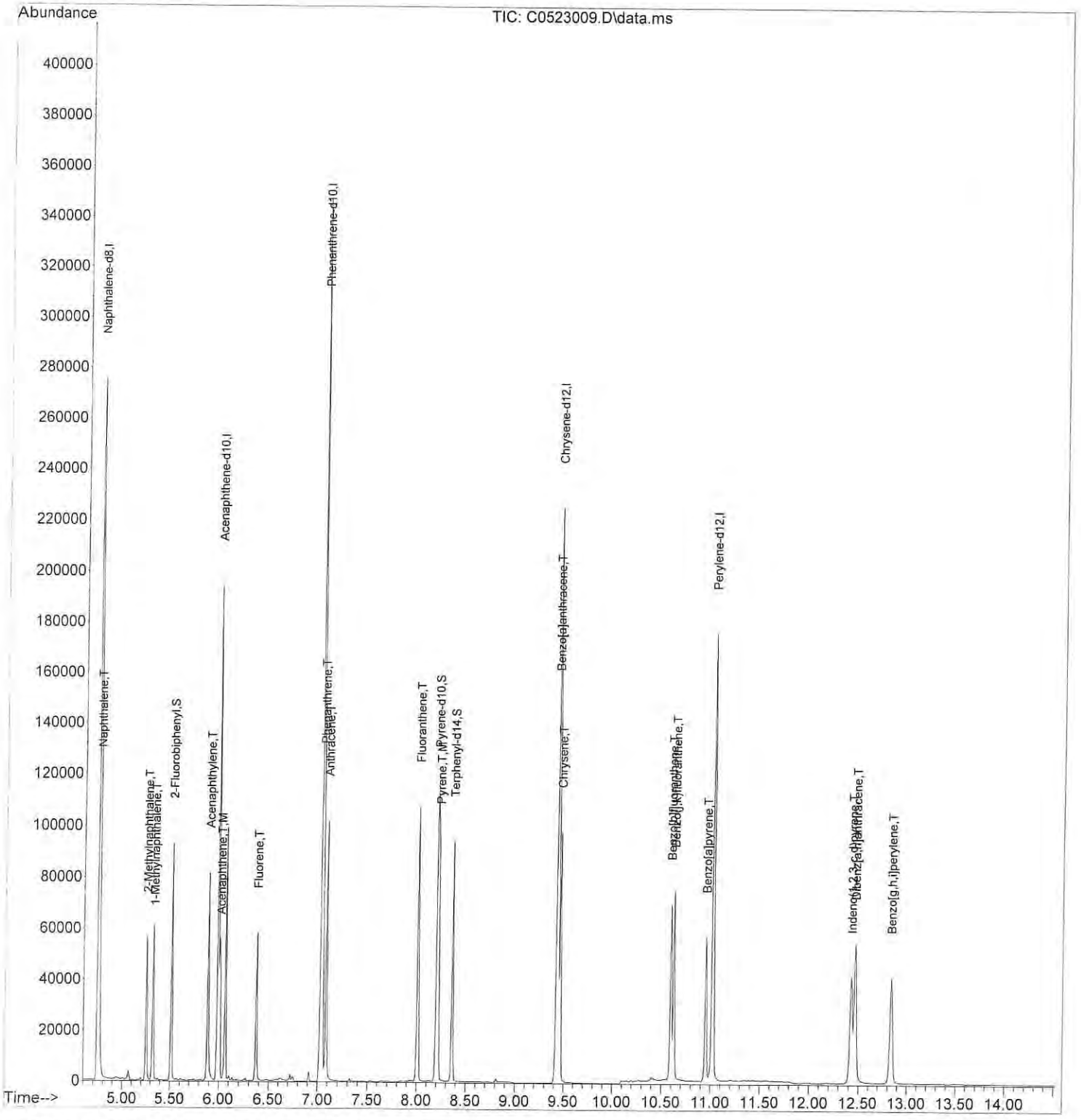
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 5/28/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523009.D
Acq On : 23 May 2024 2:29 pm
Operator : JP
Sample : SB0523W1 DUP
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 14:46:12 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529003.D
Acq On : 29 May 2024 11:22 am
Operator : JP
Sample : SB0529W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:48:12 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.643	136	291796	2000.00	ppb	0.00
5) Acenaphthene-d10	5.889	164	155187	2000.00	ppb	0.00
9) Phenanthrene-d10	6.933	188	277808	2000.00	ppb	0.02
16) Chrysene-d12	9.305	240	217040	2000.00	ppb	0.02
20) Perylene-d12	10.863	264	218929	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.414	172	83875	592.69	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 59.27%			
10) Pyrene-d10	8.084	212	113400	973.78	ppb	0.02
Spiked Amount 1000.000	Range 40 - 110		Recovery = 97.38%			
17) Terphenyl-d14	8.247	244	88649	917.92	ppb	0.02
Spiked Amount 1000.000	Range 39 - 92		Recovery = 91.79%			
Target Compounds						Qvalue
2) Naphthalene	4.659	128	53106	308.82	ppb	97
3) 2-Methylnaphthalene	5.153	142	29979	275.18	ppb	98
4) 1-Methylnaphthalene	5.222	142	30994	288.18	ppb	100
7) Acenaphthylene	5.789	152	63312	340.09	ppb	100
8) Acenaphthene	5.904	153	33763	283.01	ppb	100
11) Fluorene	6.274	166	43766	311.89	ppb	100
12) Phenanthrene	6.951	178	75907	360.43	ppb	95
13) Anthracene	6.986	178	78660	442.98	ppb	96
14) Fluoranthene	7.901	202	90341	443.13	ppb	93
15) Pyrene	8.103	202	92477	451.14	ppb	95
18) Benzo[a]anthracene	9.293	228	81950	511.61	ppb	93
19) Chrysene	9.328	228	81991	459.29	ppb	95
21) Benzo[b]fluoranthene	10.456	252	86554	508.68	ppb	95
22) Benzo(j,k)fluoranthene	10.485	252	85416	468.44	ppb	94
23) Benzo[a]pyrene	10.799	252	73626	493.24	ppb	96
24) Indeno(1,2,3-c,d)pyrene	12.203	276	76140m	528.27	ppb	
25) Dibenz[a,h]anthracene	12.241	278	74705	494.36	ppb	95
26) Benzo[g,h,i]perylene	12.588	276	75765	481.84	ppb	96

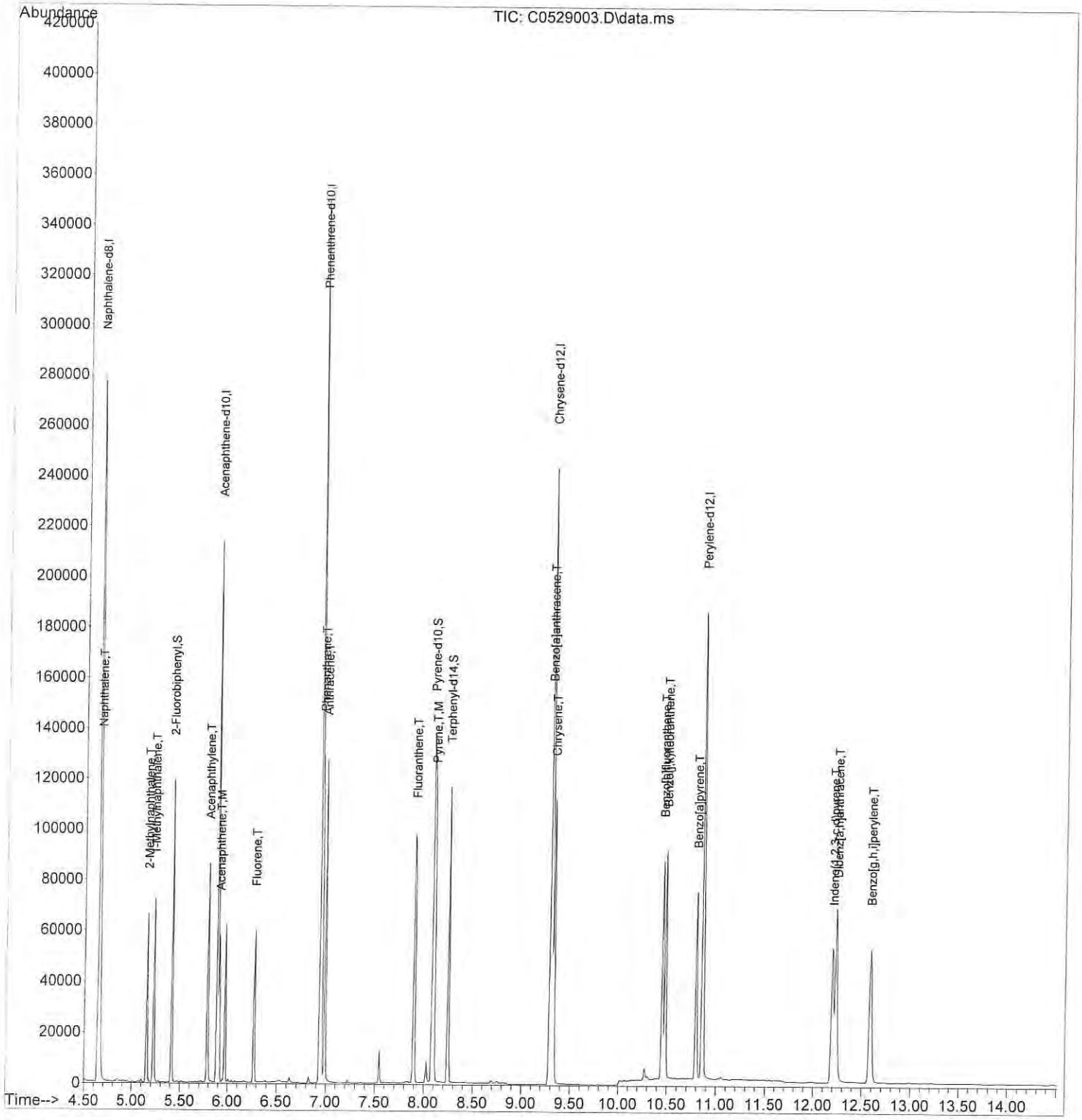
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 5/30/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529003.D
Acq On : 29 May 2024 11:22 am
Operator : JP
Sample : SB0529W1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 29 11:48:12 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529010.D
Acq On : 29 May 2024 2:12 pm
Operator : JP
Sample : SB0529W1 DUP REX
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 14:28:01 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.643	136	281383	2000.00	ppb	0.00
5) Acenaphthene-d10	5.883	164	147667	2000.00	ppb	0.00
9) Phenanthrene-d10	6.923	188	266352	2000.00	ppb	0.00
16) Chrysene-d12	9.292	240	206655	2000.00	ppb	0.01
20) Perylene-d12	10.858	264	209826	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.414	172	85608	635.75	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 63.58%			
10) Pyrene-d10	8.074	212	109901	984.33	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 98.43%			
17) Terphenyl-d14	8.237	244	81812	889.69	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 88.97%			
Target Compounds						Qvalue
2) Naphthalene	4.658	128	49312	297.37	ppb	97
3) 2-Methylnaphthalene	5.152	142	27822	264.83	ppb	98
4) 1-Methylnaphthalene	5.222	142	29184	281.39	ppb	99
7) Acenaphthylene	5.783	152	57044	322.02	ppb	100
8) Acenaphthene	5.906	153	32454	285.89	ppb	100
11) Fluorene	6.268	166	44018	327.18	ppb	100
12) Phenanthrene	6.940	178	71838	355.78	ppb	95
13) Anthracene	6.975	178	75432	443.07	ppb	95
14) Fluoranthene	7.881	202	84988	434.80	ppb	93
15) Pyrene	8.083	202	86430	439.77	ppb	95
18) Benzo[a]anthracene	9.281	228	73678	482.71	ppb	93
19) Chrysene	9.316	228	73826	434.34	ppb	95
21) Benzo[b]fluoranthene	10.445	252	76464	468.88	ppb	94
22) Benzo(j,k)fluoranthene	10.474	252	77966	446.13	ppb	95
23) Benzo[a]pyrene	10.788	252	67378	470.96	ppb	95
24) Indeno(1,2,3-c,d)pyrene	12.187	276	65835m	476.59	ppb	
25) Dibenz[a,h]anthracene	12.226	278	67759	467.84	ppb	97
26) Benzo[g,h,i]perylene	12.580	276	68633	455.42	ppb	97

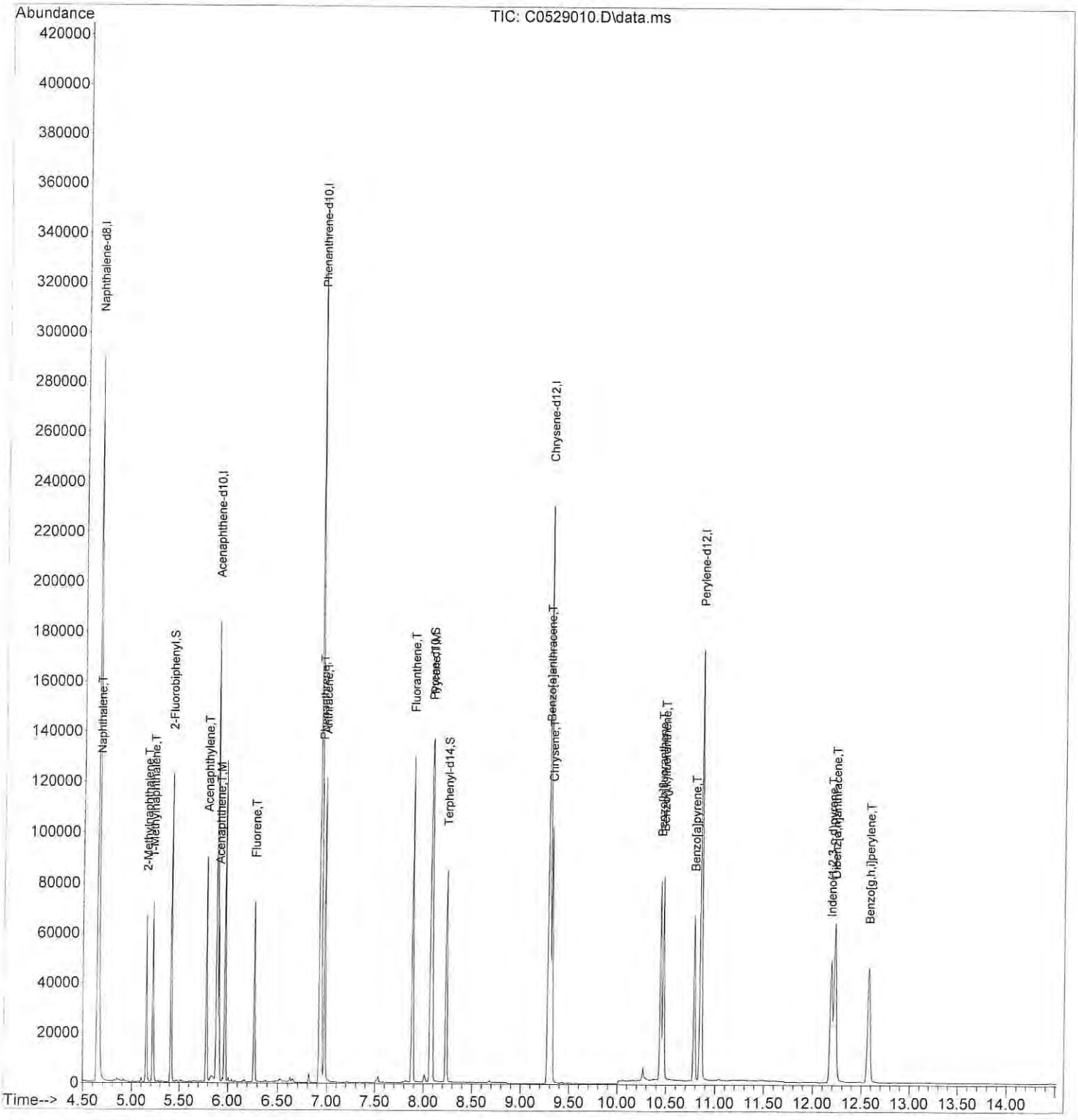
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 5/30/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529010.D
Acq On : 29 May 2024 2:12 pm
Operator : JP
Sample : SB0529W1 DUP REX
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 14:28:01 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Response Factor Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240517.M
Title : PAH'S BY SIMS
Last Update : Thu Jun 06 15:35:35 2024
Response Via : Initial Calibration

Calibration Files
10 =C0517017.D 20 =C0517009.D 50 =C0517010.D 100 =C0517011.D 200 =C0517012.D 500 =C0606015.D 1000=C0517018.D
5000=C0517019.D

		Compound	10	20	50	100	200	500	1000	5000	Avg	%RSD
1)	I	Naphthalene-d8	----------ISTD----------									
2)	T	Naphthalene	1.286	1.211	1.215	1.163	1.169	1.181	1.180	1.024	1.179	6.27
3)	T	2-Methylnaphth...	0.809	0.781	0.780	0.724	0.716	0.727	0.766	0.671	0.747	6.01
4)	T	1-Methylnaphth...	0.792	0.752	0.746	0.727	0.726	0.735	0.737	0.683	0.737	4.12
5)	I	Acenaphthene-d10	----------ISTD----------									
6)	S	2-Fluorobiphenyl	2.294	1.793	1.802	1.807	1.931	1.749	1.681	1.532	1.824	12.18
7)	T	Acenaphthylene	2.520	2.449	2.500	2.473	2.440	2.420	2.327	2.065	2.399	6.14
8)	T,M	Acenaphthene	1.680	1.594	1.602	1.512	1.510	1.510	1.552	1.339	1.537	6.47
9)	I	Phenanthrene-d10	----------ISTD----------									
10)	S	Pyrene-d10	0.821	0.825	0.850	0.859	0.865	0.849	0.834	0.804	0.838	2.49
11)	T	Fluorene	1.057	1.053	1.056	1.008	1.020	1.006	1.000	0.882	1.010	5.63
12)	T	Phenanthrene	2.097	1.576	1.557	1.412	1.427	1.402	1.463	1.195	1.516	17.28
13)	T	Anthracene	1.341	1.273	1.290	1.284	1.296	1.292	1.280	1.172	1.278	3.72
14)	T	Fluoranthene	1.713	1.506	1.505	1.459	1.438	1.400	1.443	1.278	1.468	8.35
15)	T,M	Pyrene	1.631	1.511	1.490	1.455	1.453	1.456	1.467	1.343	1.476	5.41
16)	I	Chrysene-d12	----------ISTD----------									
17)	S	Terphenyl-d14	1.162	0.894	0.857	0.875	0.869	0.856	0.826	0.781	0.890	12.95
18)	T	Benzo[a]anthra...	2.191	1.870	1.696	1.598	1.612	1.574	1.533	1.431	1.688	14.21
19)	T	Chrysene	1.703	1.637	1.643	1.718	1.701	1.681	1.609	1.468	1.645	4.93
20)	I	Perylene-d12	----------ISTD----------									
21)	T	Benzo[b]fluora...	1.541	1.551	1.557	1.575	1.576	1.572	1.530	1.533	1.554	1.22
22)	T	Benzo(j,k)fluo...	1.675	1.617	1.635	1.690	1.731	1.736	1.716	1.526	1.666	4.25
23)	T	Benzo[a]pyrene	1.344	1.338	1.345	1.363	1.385	1.403	1.375	1.356	1.364	1.66
24)	T	Indeno(1,2,3-c...	1.252	1.317	1.304	1.335	1.355	1.346	1.301	1.324	1.317	2.46
25)	T	Dibenz[a,h]ant...	1.356	1.345	1.326	1.384	1.418	1.417	1.406	1.392	1.381	2.51
26)	T	Benzo[g,h,i]pe...	1.405	1.387	1.409	1.441	1.484	1.482	1.459	1.424	1.436	2.51

(#) = Out of Range

Compound List Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240517.M
Title : PAH'S BY SIMS
Last Update : Thu Jun 06 15:35:35 2024
Response Via : Initial Calibration

Total Cpnds : 26

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	4.251	1.000	A	0	A	R
2	T	Naphthalene	128	4.267	1.004	A	1	A	R
3	T	2-Methylnaphthalene	142	4.767	1.121	A	1	A	R
4	T	1-Methylnaphthalene	142	4.831	1.136	A	1	A	R
5	I	Acenaphthene-d10	164	5.493	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	5.028	0.915	A	0	A	R
7	T	Acenaphthylene	152	5.386	0.980	A	0	A	R
8	T	Acenaphthene	153	5.509	1.003	A	0	A	R
9	I	Phenanthrene-d10	188	6.513	1.000	A	0	A	R
10	S	Pyrene-d10	212	7.566	1.162	A	0	A	R
11	T	Fluorene	166	5.871	0.901	A	0	A	R
12	T	Phenanthrene	178	6.530	1.003	A	1	A	R
13	T	Anthracene	178	6.565	1.008	A	1	A	R
14	T	Fluoranthene	202	7.402	1.137	A	1	A	R
15	T	Pyrene	202	7.585	1.165	A	1	A	R
16	I	Chrysene-d12	240	8.720	1.000	A	0	A	R
17	S	Terphenyl-d14	244	7.739	0.888	A	0	A	R
18	T	Benzo[a]anthracene	228	8.708	0.999	L	1	A	R
19	T	Chrysene	228	8.737	1.002	A	1	A	R
20	I	Perylene-d12	264	10.210	1.000	A	0	A	R
21	T	Benzo[b]fluoranthene	252	9.821	0.962	A	1	A	R
22	T	Benzo(j,k)fluoranthene	252	9.850	0.965	A	1	A	R
23	T	Benzo[a]pyrene	252	10.146	0.994	A	1	A	R
24	T	Indeno(1,2,3-c,d)pyrene	276	11.291	1.106	A	1	A	R
25	T	Dibenz[a,h]anthracene	278	11.330	1.110	A	1	A	R
26	T	Benzo[g,h,i]perylene	276	11.584	1.135	A	1	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CS240517.M Thu Aug 22 08:57:28 2024

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517017.D
Acq On : 17 May 2024 2:50 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-150-12
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 20 07:55:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

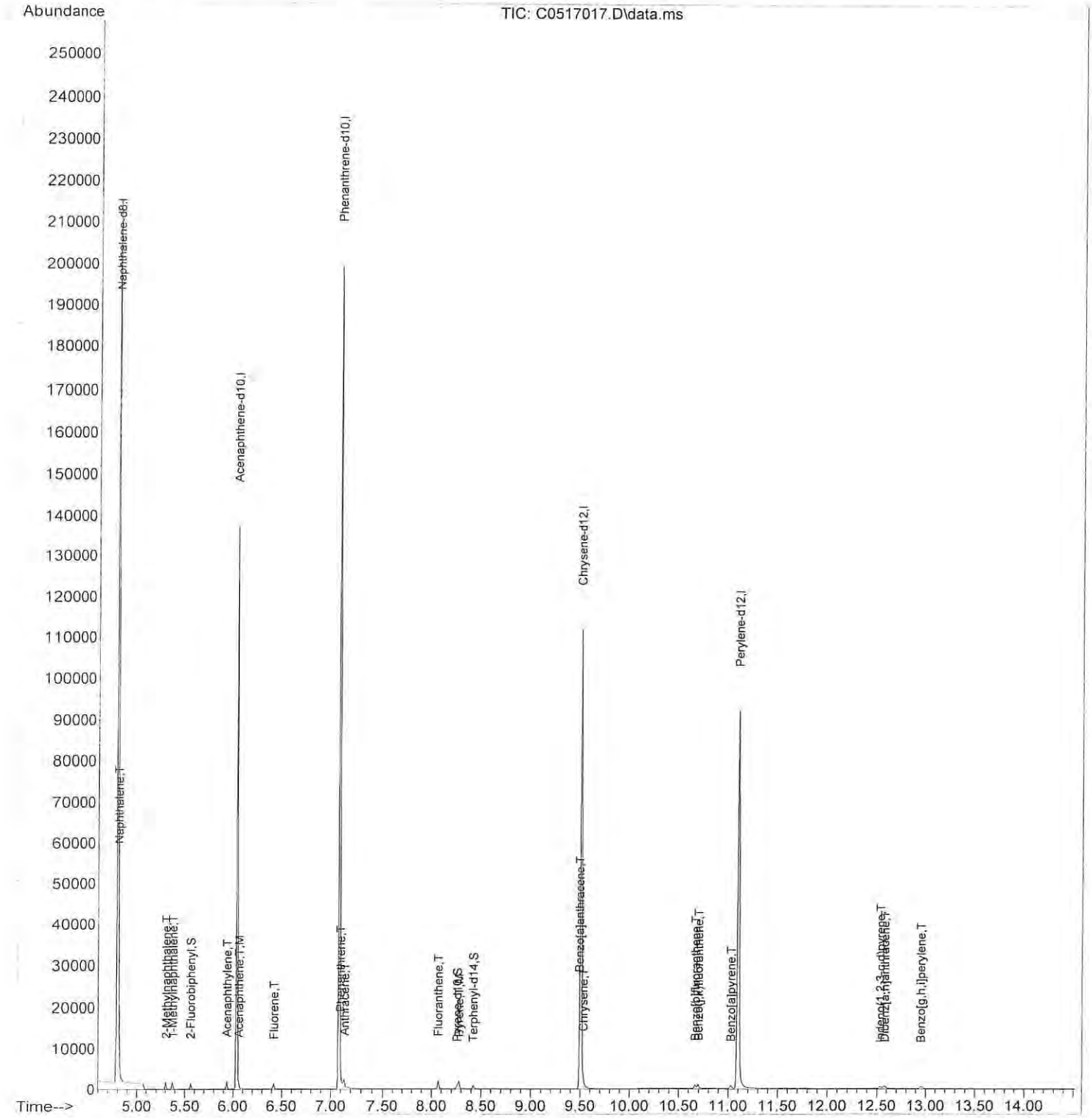
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.798	136	211653	2000.00	ppb	0.00
5) Acenaphthene-d10	6.036	164	100247	2000.00	ppb	0.00
9) Phenanthrene-d10	7.080	188	176181	2000.00	ppb	0.00
16) Chrysene-d12	9.502	240	121523	2000.00	ppb	0.00
20) Perylene-d12	11.104	264	120959	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.560	172	1150	12.58	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.26%#			
10) Pyrene-d10	8.257	212	723	9.79	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 0.98%#			
17) Terphenyl-d14	8.421	244	706	13.06	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 1.31%#			
Target Compounds						Qvalue
2) Naphthalene	4.805	128	1361	10.91	ppb	100
3) 2-Methylnaphthalene	5.305	142	856	10.83	ppb	98
4) 1-Methylnaphthalene	5.375	142	838	10.74	ppb	96
7) Acenaphthylene	5.936	152	1263	10.50	ppb	100
8) Acenaphthene	6.059	153	842	10.93	ppb	100
11) Fluorene	6.421	166	931	10.46	ppb	100
12) Phenanthrene	7.098	178	1847	13.83	ppb	97
13) Anthracene	7.138	178	1181	10.49	ppb	96
14) Fluoranthene	8.065	202	1509	11.67	ppb	96
15) Pyrene	8.276	202	1437	11.05	ppb	97
18) Benzo[a]anthracene	9.490	228	1331	8.29	ppb	95
19) Chrysene	9.531	228	1035	10.35	ppb	93
21) Benzo[b]fluoranthene	10.668	252	932	9.91	ppb	99
22) Benzo(j,k)fluoranthene	10.697	252	1013	10.06	ppb	97
23) Benzo[a]pyrene	11.028	252	813	9.86	ppb	97
24) Indeno(1,2,3-c,d)pyrene	12.534	276	757	9.51	ppb	87
25) Dibenz[a,h]anthracene	12.581	278	820	9.82	ppb	86
26) Benzo[g,h,i]perylene	12.951	276	850	9.78	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/20/24

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517017.D
Acq On : 17 May 2024 2:50 pm
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-150-12
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 20 07:55:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517009.D
Acq On : 17 May 2024 11:52 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-150-11
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 20 07:56:53 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

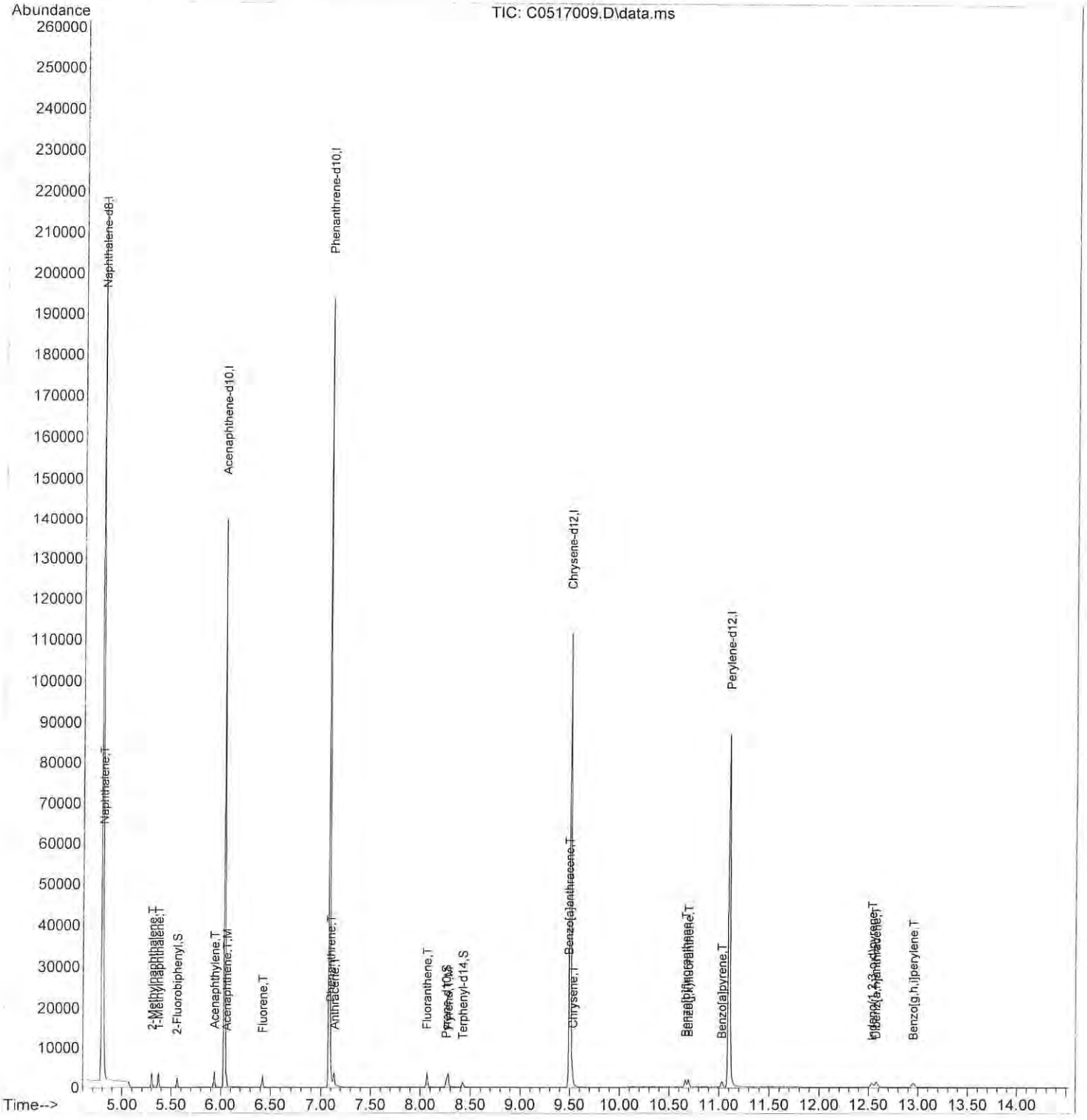
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.797	136	208921	2000.00	ppb	0.00
5) Acenaphthene-d10	6.035	164	97919	2000.00	ppb	0.00
9) Phenanthrene-d10	7.086	188	167849	2000.00	ppb	0.00
16) Chrysene-d12	9.503	240	116554	2000.00	ppb	0.00
20) Perylene-d12	11.102	264	114606	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.560	172	1756	19.67	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.97%#			
10) Pyrene-d10	8.257	212	1385	19.68	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 1.97%#			
17) Terphenyl-d14	8.420	244	1042	20.09	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 2.01%#			
Target Compounds						Qvalue
2) Naphthalene	4.805	128	2531	20.56	ppb	99
3) 2-Methylnaphthalene	5.304	142	1631	20.91	ppb	99
4) 1-Methylnaphthalene	5.374	142	1572	20.41	ppb	98
7) Acenaphthylene	5.935	152	2398	20.41	ppb	100
8) Acenaphthene	6.059	153	1561	20.74	ppb	100
11) Fluorene	6.421	166	1767	20.84	ppb	100
12) Phenanthrene	7.097	178	2646	20.80	ppb	96
13) Anthracene	7.138	178	2136	19.91	ppb	96
14) Fluoranthene	8.065	202	2527	20.52	ppb	95
15) Pyrene	8.276	202	2537	20.48	ppb	96
18) Benzo[a]anthracene	9.491	228	2180	18.93	ppb	99
19) Chrysene	9.532	228	1908	19.90	ppb	93
21) Benzo[b]fluoranthene	10.667	252	1778	19.96	ppb	99
22) Benzo(j,k)fluoranthene	10.696	252	1853	19.41	ppb	99
23) Benzo[a]pyrene	11.027	252	1533	19.62	ppb	100
24) Indeno(1,2,3-c,d)pyrene	12.536	276	1520m	20.15	ppb	
25) Dibenz[a,h]anthracene	12.574	278	1542	19.49	ppb	84
26) Benzo[g,h,i]perylene	12.952	276	1590	19.32	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/20/24

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517009.D
Acq On : 17 May 2024 11:52 am
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-150-11
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 20 07:56:53 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517010.D
Acq On : 17 May 2024 12:14 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-150-10
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 20 08:01:17 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.796	136	210088	2000.00	ppb	0.00
5) Acenaphthene-d10	6.037	164	96704	2000.00	ppb	0.00
9) Phenanthrene-d10	7.081	188	167436	2000.00	ppb	0.00
16) Chrysene-d12	9.502	240	115857	2000.00	ppb	0.00
20) Perylene-d12	11.104	264	115355	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.559	172	4357	49.41	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 4.94%#			
10) Pyrene-d10	8.258	212	3557	50.68	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 5.07%#			
17) Terphenyl-d14	8.421	244	2482	48.14	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 4.81%#			
Target Compounds						Qvalue
2) Naphthalene	4.804	128	6381	51.54	ppb	99
3) 2-Methylnaphthalene	5.304	142	4096	52.22	ppb	98
4) 1-Methylnaphthalene	5.374	142	3916	50.57	ppb	97
7) Acenaphthylene	5.937	152	6043	52.09	ppb	100
8) Acenaphthene	6.060	153	3874	52.11	ppb	100
11) Fluorene	6.422	166	4420	52.26	ppb	100
12) Phenanthrene	7.098	178	6519	51.36	ppb	96
13) Anthracene	7.133	178	5399	50.45	ppb	96
14) Fluoranthene	8.066	202	6300	51.27	ppb	94
15) Pyrene	8.277	202	6236	50.47	ppb	95
18) Benzo[a]anthracene	9.490	228	4911	51.44	ppb	97
19) Chrysene	9.531	228	4758	49.93	ppb	93
21) Benzo[b]fluoranthene	10.662	252	4489	50.07	ppb	99
22) Benzo(j,k)fluoranthene	10.691	252	4716	49.09	ppb	97
23) Benzo[a]pyrene	11.028	252	3878	49.31	ppb	99
24) Indeno(1,2,3-c,d)pyrene	12.535	276	3766m	49.59	ppb	
25) Dibenz[a,h]anthracene	12.581	278	3823	48.01	ppb	86
26) Benzo[g,h,i]perylene	12.951	276	4064	49.05	ppb	87

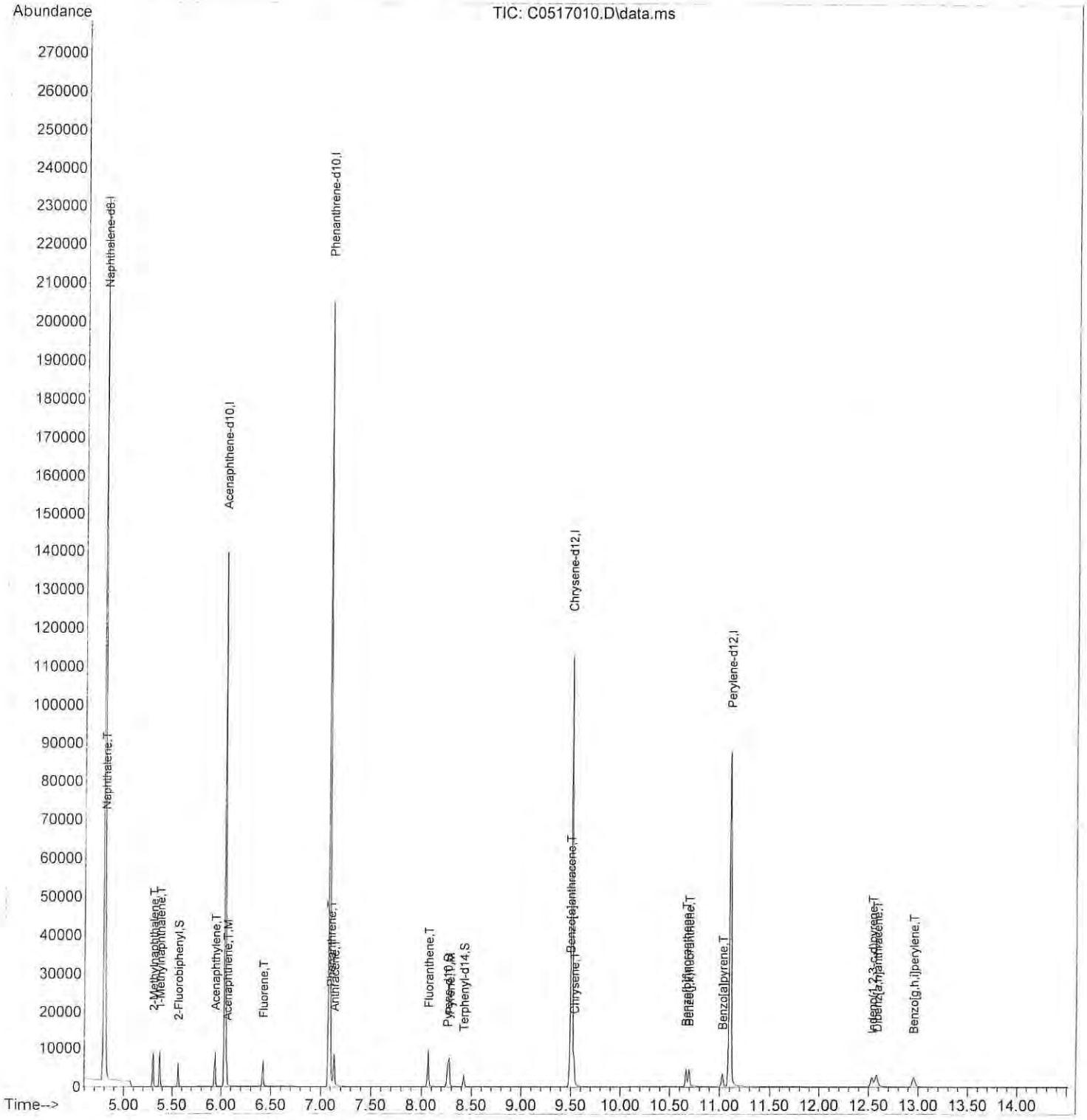
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/20/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517010.D
Acq On : 17 May 2024 12:14 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-150-10
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 20 08:01:17 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517011.D
Acq On : 17 May 2024 12:36 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-150-09
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 07:55:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.797	136	178431	2000.00	ppb	0.00
5) Acenaphthene-d10	6.037	164	84497	2000.00	ppb	0.00
9) Phenanthrene-d10	7.085	188	150088	2000.00	ppb	0.00
16) Chrysene-d12	9.502	240	105428	2000.00	ppb	0.00
20) Perylene-d12	11.102	264	105554	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.560	172	7635	99.09	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 9.91%#			
10) Pyrene-d10	8.258	212	6449	102.50	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 10.25%#			
17) Terphenyl-d14	8.421	244	4614	98.35	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 9.83%#			
Target Compounds						Qvalue
2) Naphthalene	4.804	128	10377	98.68	ppb	99
3) 2-Methylnaphthalene	5.304	142	6461	96.99	ppb	97
4) 1-Methylnaphthalene	5.374	142	6488	98.65	ppb	98
7) Acenaphthylene	5.937	152	10450	103.09	ppb	100
8) Acenaphthene	6.060	153	6388	98.34	ppb	100
11) Fluorene	6.422	166	7566	99.80	ppb	100
12) Phenanthrene	7.097	178	10598	93.15	ppb	95
13) Anthracene	7.137	178	9634	100.42	ppb	95
14) Fluoranthene	8.066	202	10949	99.41	ppb	94
15) Pyrene	8.277	202	10917	98.58	ppb	95
18) Benzo[a]anthracene	9.491	228	8426	102.97	ppb	94
19) Chrysene	9.531	228	9056	104.43	ppb	95
21) Benzo[b]fluoranthene	10.661	252	8315	101.36	ppb	99
22) Benzo(j,k)fluoranthene	10.696	252	8920	101.46	ppb	98
23) Benzo[a]pyrene	11.027	252	7194	99.96	ppb	99
24) Indeno(1,2,3-c,d)pyrene	12.536	276	7048	101.42	ppb	93
25) Dibenz[a,h]anthracene	12.582	278	7306	100.28	ppb	85
26) Benzo[g,h,i]perylene	12.952	276	7604	100.30	ppb	86

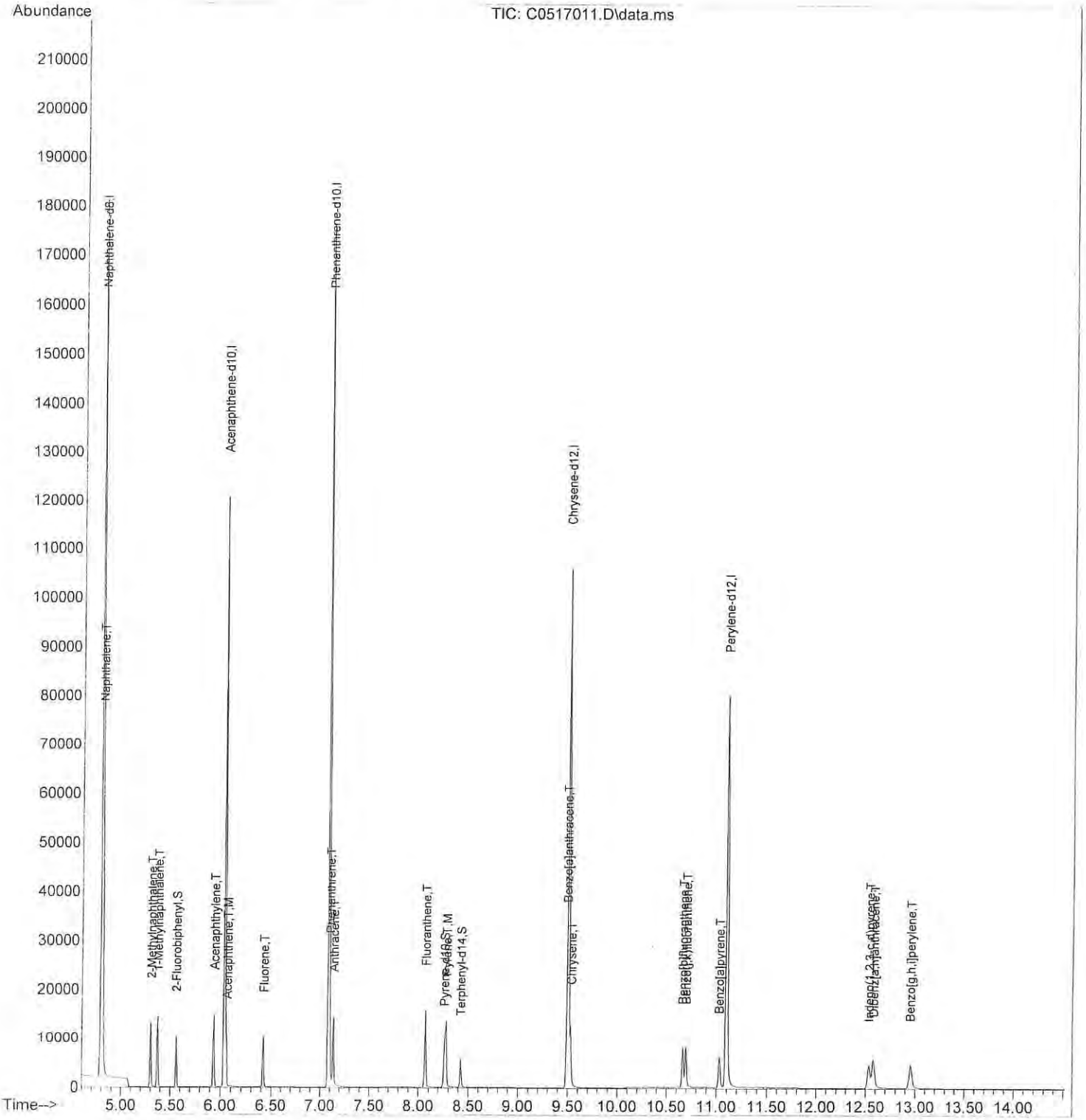
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JO
5/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517011.D
Acq On : 17 May 2024 12:36 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-150-09
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 20 07:55:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517012.D
Acq On : 17 May 2024 12:58 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-150-08
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 20 07:55:28 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

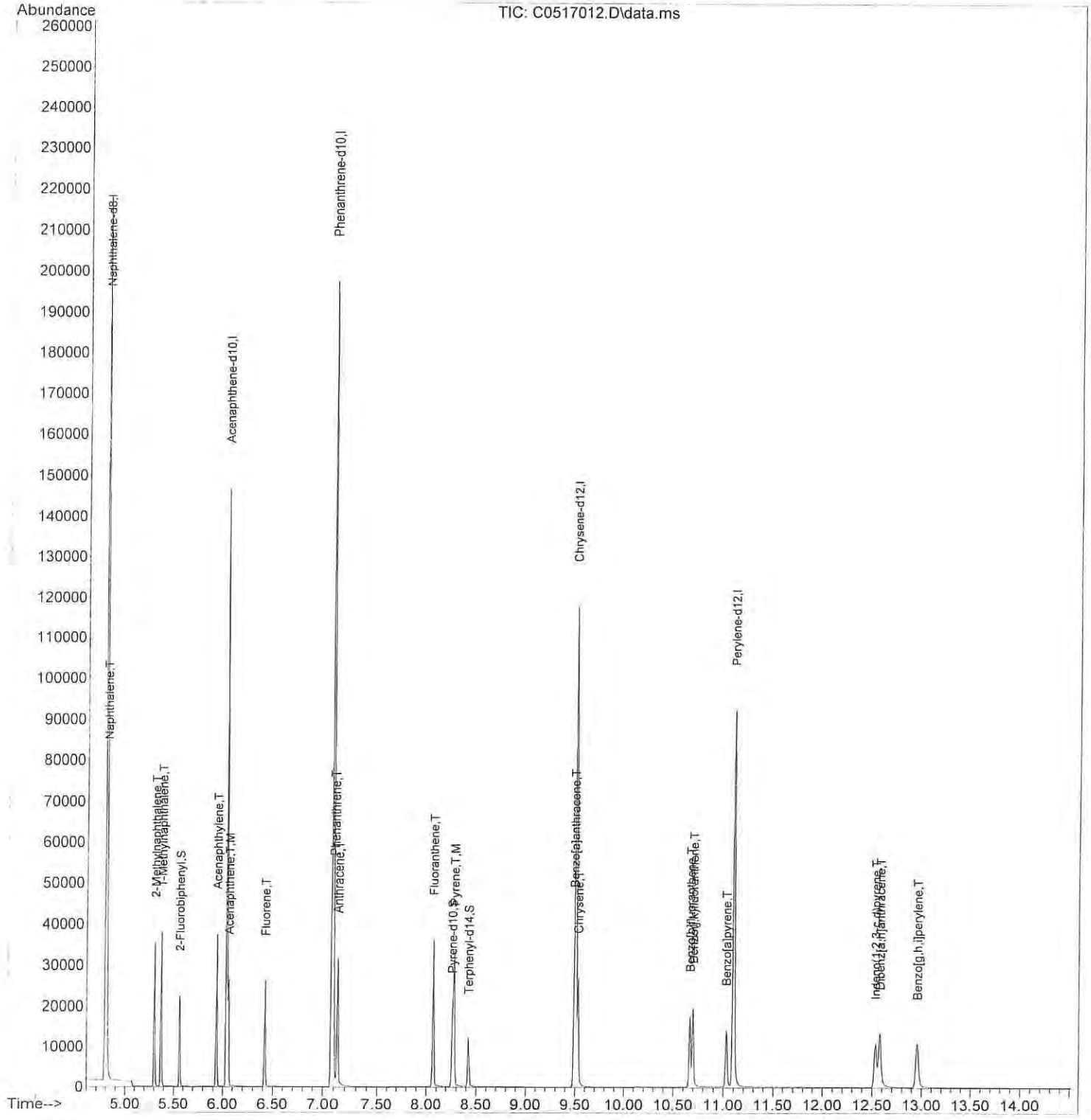
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.797	136	214731	2000.00	ppb	0.00
5) Acenaphthene-d10	6.036	164	100847	2000.00	ppb	0.00
9) Phenanthrene-d10	7.080	188	174176	2000.00	ppb	0.00
16) Chrysene-d12	9.502	240	120306	2000.00	ppb	0.00
20) Perylene-d12	11.103	264	118751	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.559	172	19474	211.76	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 21.18%#			
10) Pyrene-d10	8.258	212	15061	206.28	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 20.63%#			
17) Terphenyl-d14	8.421	244	10450	195.21	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 19.52%#			
Target Compounds						Qvalue
2) Naphthalene	4.805	128	25105	198.38	ppb	99
3) 2-Methylnaphthalene	5.303	142	15383	191.88	ppb	98
4) 1-Methylnaphthalene	5.373	142	15580	196.85	ppb	98
7) Acenaphthylene	5.936	152	24609	203.42	ppb	100
8) Acenaphthene	6.059	153	15230	196.45	ppb	100
11) Fluorene	6.422	166	17760	201.87	ppb	100
12) Phenanthrene	7.098	178	24851	188.21	ppb	95
13) Anthracene	7.132	178	22575	202.77	ppb	95
14) Fluoranthene	8.065	202	25049	195.97	ppb	94
15) Pyrene	8.277	202	25301	196.86	ppb	95
18) Benzo[a]anthracene	9.490	228	19393	214.55	ppb	94
19) Chrysene	9.531	228	20469	206.86	ppb	94
21) Benzo[b]fluoranthene	10.668	252	18716	202.78	ppb	99
22) Benzo(j,k)fluoranthene	10.697	252	20552	207.79	ppb	98
23) Benzo[a]pyrene	11.028	252	16452	203.19	ppb	98
24) Indeno(1,2,3-c,d)pyrene	12.535	276	16091	205.82	ppb	93
25) Dibenz[a,h]anthracene	12.581	278	16843	205.48	ppb	87
26) Benzo[g,h,i]perylene	12.959	276	17624	206.63	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 5/24/24

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517012.D
Acq On : 17 May 2024 12:58 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-150-08
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 20 07:55:28 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517013.D
Acq On : 17 May 2024 1:20 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-150-07
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 20 07:55:40 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.798	136	214595	2000.00	ppb	0.00
5) Acenaphthene-d10	6.036	164	102701	2000.00	ppb	0.00
9) Phenanthrene-d10	7.086	188	178660	2000.00	ppb	0.00
16) Chrysene-d12	9.507	240	125100	2000.00	ppb	0.00
20) Perylene-d12	11.103	264	123990	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.560	172	44911	479.55	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 47.96%			
10) Pyrene-d10	8.257	212	37914	506.25	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 50.63%			
17) Terphenyl-d14	8.420	244	26781	481.10	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 48.11%			
Target Compounds						Qvalue
2) Naphthalene	4.805	128	63347	500.89	ppb	99
3) 2-Methylnaphthalene	5.305	142	39005	486.83	ppb	98
4) 1-Methylnaphthalene	5.374	142	39417	498.34	ppb	98
7) Acenaphthylene	5.935	152	62131	504.30	ppb	100
8) Acenaphthene	6.059	153	38760	490.94	ppb	100
11) Fluorene	6.421	166	44933	497.90	ppb	100
12) Phenanthrene	7.097	178	62625	462.39	ppb	94
13) Anthracene	7.138	178	57708	505.33	ppb	94
14) Fluoranthene	8.065	202	62535	476.96	ppb	96
15) Pyrene	8.276	202	65015	493.18	ppb	95
18) Benzo[a]anthracene	9.489	228	49236	533.57	ppb	94
19) Chrysene	9.530	228	52575	510.96	ppb	93
21) Benzo[b]fluoranthene	10.667	252	48739	505.77	ppb	100
22) Benzo(j,k)fluoranthene	10.696	252	53801	520.98	ppb	99
23) Benzo[a]pyrene	11.027	252	43479	514.30	ppb	98
24) Indeno(1,2,3-c,d)pyrene	12.534	276	41708	510.95	ppb	88
25) Dibenz[a,h]anthracene	12.581	278	43921	513.19	ppb	86
26) Benzo[g,h,i]perylene	12.958	276	45928	515.73	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

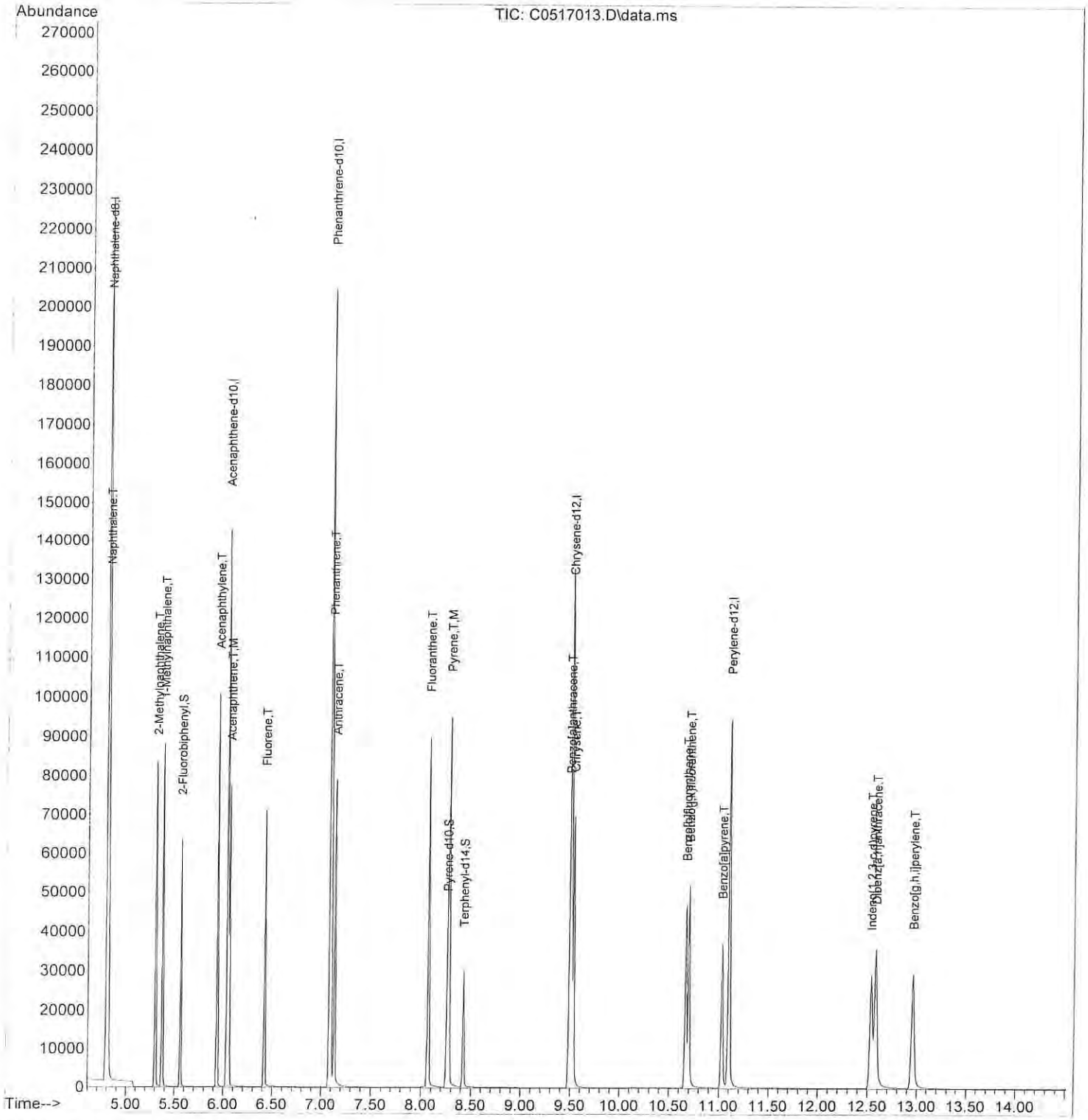
JP

5/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517013.D
Acq On : 17 May 2024 1:20 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-150-07
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 20 07:55:40 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517018.D
Acq On : 17 May 2024 3:12 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-150-06
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 20 07:56:05 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

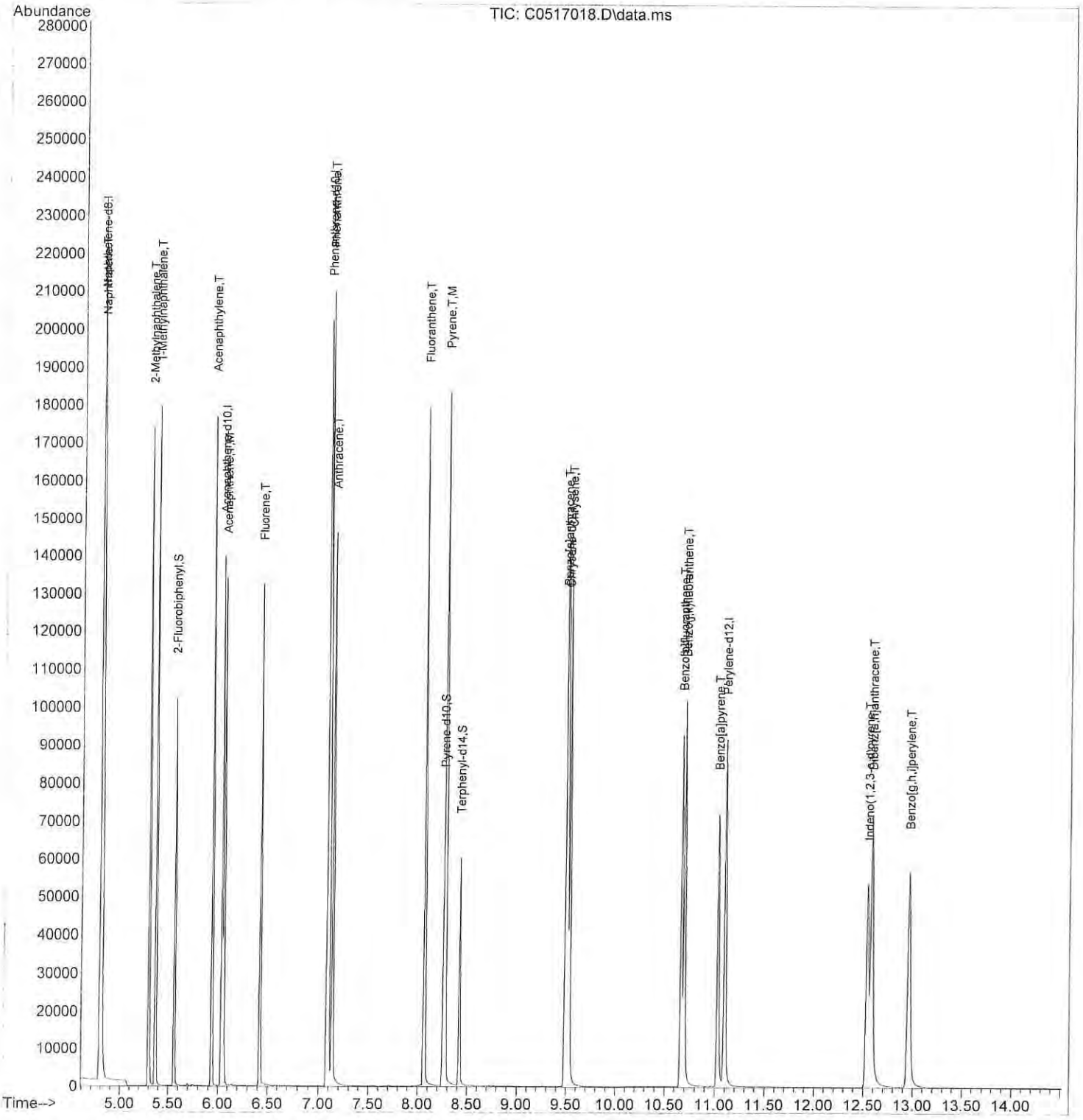
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.796	136	202420	2000.00	ppb	0.00
5) Acenaphthene-d10	6.037	164	97114	2000.00	ppb	0.00
9) Phenanthrene-d10	7.081	188	170165	2000.00	ppb	0.00
16) Chrysene-d12	9.507	240	121497	2000.00	ppb	0.00
20) Perylene-d12	11.104	264	121287	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.559	172	81629	921.76	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 92.18%#			
10) Pyrene-d10	8.258	212	70996	995.31	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 99.53%			
17) Terphenyl-d14	8.421	244	50149	927.61	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 92.76%#			
Target Compounds						Qvalue
2) Naphthalene	4.804	128	119428	1001.13	ppb	98
3) 2-Methylnaphthalene	5.304	142	77526	1025.82	ppb	99
4) 1-Methylnaphthalene	5.374	142	74567	999.44	ppb	99
7) Acenaphthylene	5.936	152	113007	970.02	ppb	100
8) Acenaphthene	6.060	153	75374	1009.63	ppb	100
11) Fluorene	6.422	166	85086	989.91	ppb	100
12) Phenanthrene	7.098	178	124464	964.85	ppb	93
13) Anthracene	7.139	178	108888	1001.11	ppb	94
14) Fluoranthene	8.065	202	122782	983.22	ppb	96
15) Pyrene	8.277	202	124835	994.23	ppb	93
18) Benzo[a]anthracene	9.490	228	93128	1045.54	ppb	92
19) Chrysene	9.531	228	97744	978.11	ppb	92
21) Benzo[b]fluoranthene	10.668	252	92781	984.25	ppb	100
22) Benzo(j,k)fluoranthene	10.697	252	104083	1030.34	ppb	99
23) Benzo[a]pyrene	11.028	252	83405	1008.57	ppb	99
24) Indeno(1,2,3-c,d)pyrene	12.543	276	78921	988.38	ppb	87
25) Dibenz[a,h]anthracene	12.581	278	85251	1018.31	ppb	86
26) Benzo[g,h,i]perylene	12.959	276	88473	1015.62	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/20/24

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517018.D
Acq On : 17 May 2024 3:12 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-150-06
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 20 07:56:05 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517019.D
Acq On : 17 May 2024 3:34 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-150-05
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 20 07:56:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.798	136	220930	2000.00	ppb	0.00
5) Acenaphthene-d10	6.036	164	109229	2000.00	ppb	0.00
9) Phenanthrene-d10	7.086	188	190911	2000.00	ppb	0.00
16) Chrysene-d12	9.507	240	143474	2000.00	ppb	0.00
20) Perylene-d12	11.103	264	141777	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.565	172	418356	4200.12	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 420.01%#			
10) Pyrene-d10	8.267	212	383709	4794.74	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 479.47%#			
17) Terphenyl-d14	8.430	244	280111	4387.59	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 438.76%#			
Target Compounds						Qvalue
2) Naphthalene	4.806	128	565529	4343.46	ppb	94
3) 2-Methylnaphthalene	5.303	142	370432	4490.86	ppb	99
4) 1-Methylnaphthalene	5.373	142	377335	4633.79	ppb	99
7) Acenaphthylene	5.936	152	563802	4302.75	ppb	100
8) Acenaphthene	6.060	153	365719	4355.42	ppb	100
11) Fluorene	6.422	166	421172	4367.53	ppb	100
12) Phenanthrene	7.103	178	570214	3939.99	ppb	88
13) Anthracene	7.138	178	559508	4585.07	ppb	89
14) Fluoranthene	8.075	202	609874	4353.08	ppb	98
15) Pyrene	8.286	202	641098	4551.06	ppb	89
18) Benzo[a]anthracene	9.496	228	513289	4904.71	ppb	89
19) Chrysene	9.536	228	526393	4460.65	ppb	88
21) Benzo[b]fluoranthene	10.674	252	543199	4929.61	ppb	98
22) Benzo(j,k)fluoranthene	10.709	252	540965	4581.21	ppb	99
23) Benzo[a]pyrene	11.040	252	480663	4972.34	ppb	99
24) Indeno(1,2,3-c,d)pyrene	12.558	276	469283	5027.77	ppb	86
25) Dibenz[a,h]anthracene	12.604	278	493278	5040.56	ppb	85
26) Benzo[g,h,i]perylene	12.990	276	504818	4957.51	ppb	86

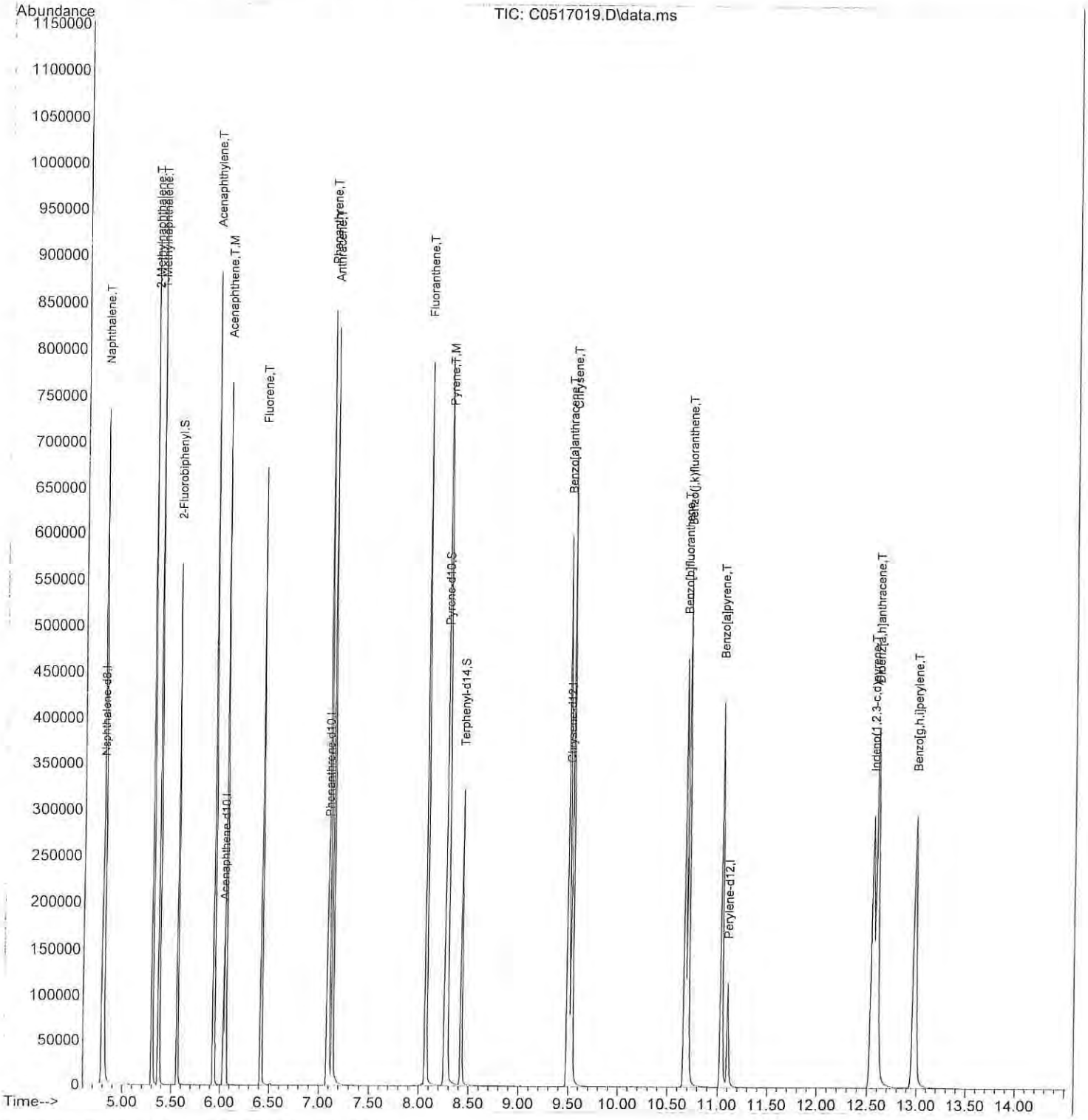
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517019.D
Acq On : 17 May 2024 3:34 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-150-05
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 20 07:56:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517020.D
Acq On : 17 May 2024 3:56 pm
Operator : JP
Sample : ICV
Misc : SV6-154-07
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 20 08:06:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	94	0.55#
2	T	Naphthalene	500.000	466.492	6.7	87	0.55#
3	T	2-Methylnaphthalene	500.000	509.197	-1.8	98	0.54#
4	T	1-Methylnaphthalene	500.000	480.250	4.0	90	0.54#
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	93	0.54#
6	S	2-Fluorobiphenyl	500.000	489.054	2.2	95	0.54#
7	T	Acenaphthylene	500.000	499.484	0.1	92	0.55#
8	T,M	Acenaphthene	500.000	497.822	0.4	94	0.55#
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	93	0.57#
10	S	Pyrene-d10	500.000	523.329	-4.7	96	0.69#
11	T	Fluorene	500.000	494.168	1.2	93	0.55#
12	T	Phenanthrene	500.000	467.084	6.6	94	0.57#
13	T	Anthracene	500.000	545.655	-9.1	101	0.57#
14	T	Fluoranthene	500.000	483.143	3.4	94	0.66#
15	T,M	Pyrene	500.000	491.622	1.7	93	0.69#
16	I	Chrysene-d12	2000.000	2000.000	0.0	93	0.78#
17	S	Terphenyl-d14	500.000	514.444	-2.9	99	0.68#
18	T	Benzo[a]anthracene	500.000	563.099	-12.6	98	0.78#
19	T	Chrysene	500.000	534.753	-7.0	97	0.79#
20	I	Perylene-d12	2000.000	2000.000	0.0	93	0.89#
21	T	Benzo[b]fluoranthene	500.000	505.719	-1.1	93	0.85#
22	T	Benzo(j,k)fluoranthene	500.000	526.152	-5.2	94	0.85#
23	T	Benzo[a]pyrene	500.000	552.876	-10.6	100	0.88#
24	T	Indeno(1,2,3-c,d)pyrene	500.000	537.445	-7.5	98	1.24#
25	T	Dibenz[a,h]anthracene	500.000	517.179	-3.4	94	1.25#
26	T	Benzo[g,h,i]perylene	500.000	524.222	-4.8	94	1.38#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

JP 8/22/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517020.D
Acq On : 17 May 2024 3:56 pm
Operator : JP
Sample : ICV
Misc : SV6-154-07
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 20 08:06:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.797	136	201523	2000.00	ppb	0.00
5) Acenaphthene-d10	6.036	164	95444	2000.00	ppb	0.00
9) Phenanthrene-d10	7.080	188	166562	2000.00	ppb	0.00
16) Chrysene-d12	9.502	240	116193	2000.00	ppb	0.00
20) Perylene-d12	11.098	264	115252	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.565	172	42565	489.05	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 48.91%			
10) Pyrene-d10	8.258	212	36539	523.33	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 52.33%			
17) Terphenyl-d14	8.421	244	26598	514.44	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 51.44%			
Target Compounds						Qvalue
2) Naphthalene	4.812	128	55403	466.49	ppb	99
3) 2-Methylnaphthalene	5.303	142	38312	509.20	ppb	98
4) 1-Methylnaphthalene	5.373	142	35672	480.25	ppb	99
7) Acenaphthylene	5.936	152	57189	499.48	ppb	100
8) Acenaphthene	6.060	153	36526	497.82	ppb	100
11) Fluorene	6.422	166	41576	494.17	ppb	100
12) Phenanthrene	7.098	178	58977	467.08	ppb	94
13) Anthracene	7.133	178	58093	545.66	ppb	95
14) Fluoranthene	8.065	202	59056	483.14	ppb	95
15) Pyrene	8.277	202	60421	491.62	ppb	94
18) Benzo[a]anthracene	9.490	228	48230	563.10	ppb	92
19) Chrysene	9.531	228	51106	534.75	ppb	94
21) Benzo[b]fluoranthene	10.668	252	45300	505.72	ppb	99
22) Benzo(j,k)fluoranthene	10.697	252	50506	526.15	ppb	98
23) Benzo[a]pyrene	11.028	252	43446	552.88	ppb	98
24) Indeno(1,2,3-c,d)pyrene	12.536	276	40779	537.45	ppb	88
25) Dibenz[a,h]anthracene	12.582	278	41143	517.18	ppb	87
26) Benzo[g,h,i]perylene	12.960	276	43394	524.22	ppb	87

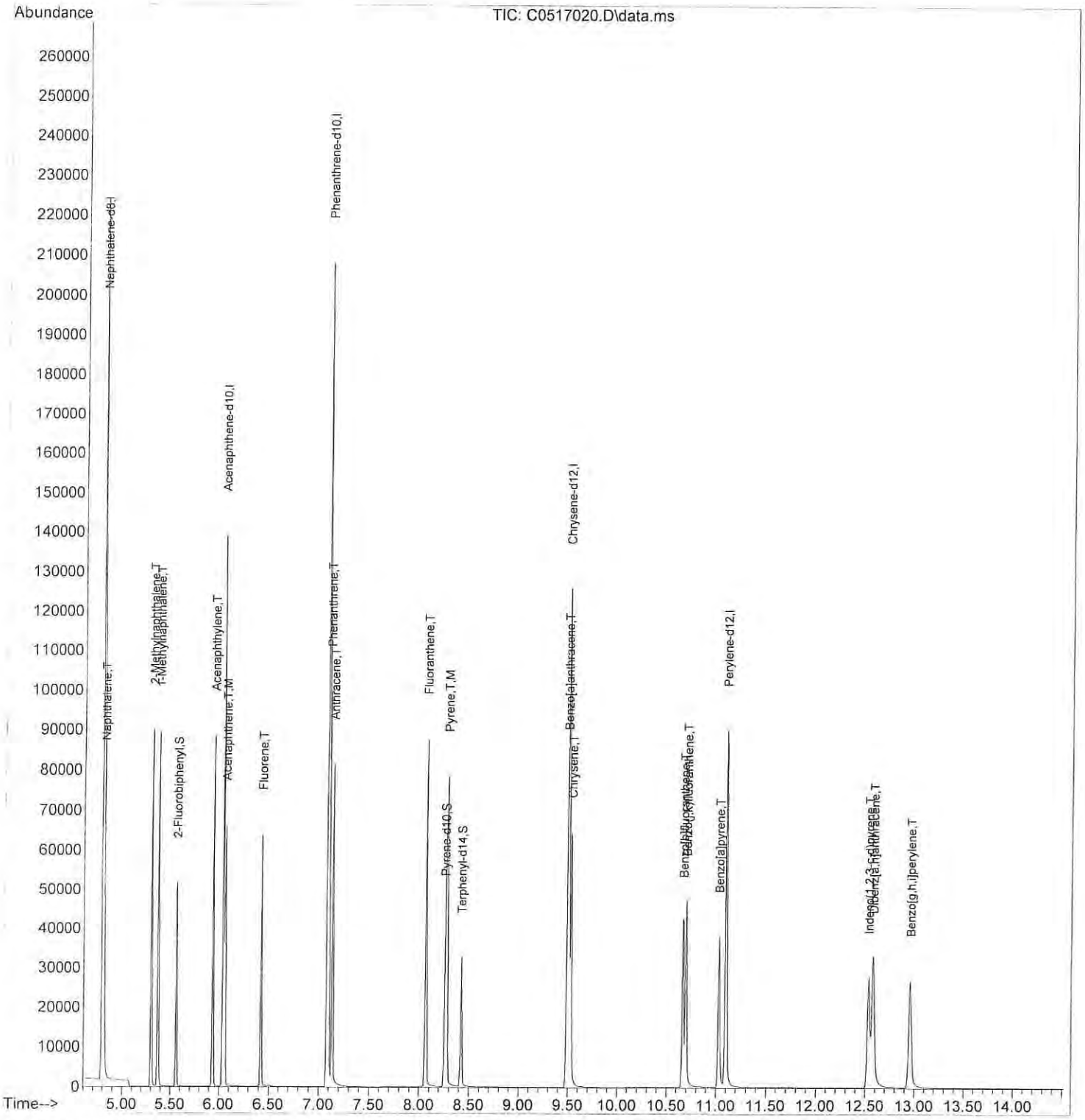
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD
5/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517020.D
Acq On : 17 May 2024 3:56 pm
Operator : JP
Sample : ICV
Misc : SV6-154-07
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 20 08:06:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523002.D
Acq On : 23 May 2024 9:57 am
Operator : JP
Sample : PAH CCV0523-1
Misc : SV6-156-04
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:29:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	138	0.50
2	T	Naphthalene	500.000	461.596	7.7	127	0.50
3	T	2-Methylnaphthalene	500.000	459.287	8.1	130	0.49
4	T	1-Methylnaphthalene	500.000	475.687	4.9	132	0.50
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	152	0.50
6	S	2-Fluorobiphenyl	500.000	436.664	12.7	138	0.49
7	T	Acenaphthylene	500.000	442.619	11.5	133	0.50#
8	T,M	Acenaphthene	500.000	432.819	13.4	134	0.50#
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	157	0.52#
10	S	Pyrene-d10	500.000	493.399	1.3	153	0.63#
11	T	Fluorene	500.000	442.646	11.5	140	0.50#
12	T	Phenanthrene	500.000	424.923	15.0	145	0.51#
13	T	Anthracene	500.000	433.718	13.3	135	0.52#
14	T	Fluoranthene	500.000	452.504	9.5	149	0.60#
15	T,M	Pyrene	500.000	467.785	6.4	149	0.63#
16	I	Chrysene-d12	2000.000	2000.000	0.0	171	0.72#
17	S	Terphenyl-d14	500.000	453.310	9.3	161	0.62#
18	T	Benzo[a]anthracene	500.000	495.834	0.8	159	0.72#
19	T	Chrysene	500.000	455.186	9.0	153	0.72#
20	I	Perylene-d12	2000.000	2000.000	0.0	172	0.81#
21	T	Benzo[b]fluoranthene	500.000	498.591	0.3	170	0.78#
22	T	Benzo(j,k)fluoranthene	500.000	459.433	8.1	152	0.78#
23	T	Benzo[a]pyrene	500.000	477.520	4.5	160	0.81#
24	T	Indeno(1,2,3-c,d)pyrene	500.000	532.655	-6.5	180	1.14#
25	T	Dibenz[a,h]anthracene	500.000	499.045	0.2	168	1.14#
26	T	Benzo[g,h,i]perylene	500.000	481.327	3.7	161	1.26#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523002.D
Acq On : 23 May 2024 9:57 am
Operator : JP
Sample : PAH CCV0523-1
Misc : SV6-156-04
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:29:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.750	136	296446	2000.00	ppb	-0.05
5) Acenaphthene-d10	5.989	164	156183	2000.00	ppb	-0.05
9) Phenanthrene-d10	7.033	188	281097	2000.00	ppb	-0.05
16) Chrysene-d12	9.439	240	214358	2000.00	ppb	-0.07
20) Perylene-d12	11.021	264	213867	2000.00	ppb	-0.08
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.514	172	62191	436.66	ppb	-0.05
Spiked Amount 1000.000	Range 25 - 89		Recovery = 43.67%			
10) Pyrene-d10	8.199	212	58138	493.40	ppb	-0.06
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.34%			
17) Terphenyl-d14	8.363	244	43238	453.31	ppb	-0.06
Spiked Amount 1000.000	Range 39 - 92		Recovery = 45.33%			
Target Compounds						Qvalue
2) Naphthalene	4.766	128	80644	461.60	ppb	99
3) 2-Methylnaphthalene	5.258	142	50834	459.29	ppb	98
4) 1-Methylnaphthalene	5.328	142	51976	475.69	ppb	98
7) Acenaphthylene	5.889	152	82929	442.62	ppb	100
8) Acenaphthene	6.012	153	51966	432.82	ppb	100
11) Fluorene	6.375	166	62850	442.65	ppb	100
12) Phenanthrene	7.045	178	90548	424.92	ppb	95
13) Anthracene	7.085	178	77928	433.72	ppb	95
14) Fluoranthene	8.007	202	93345	452.50	ppb	93
15) Pyrene	8.218	202	97025	467.79	ppb	96
18) Benzo[a]anthracene	9.427	228	78474	495.83	ppb	94
19) Chrysene	9.462	228	80254	455.19	ppb	94
21) Benzo[b]fluoranthene	10.597	252	82876	498.59	ppb	96
22) Benzo(j,k)fluoranthene	10.626	252	81837	459.43	ppb	95
23) Benzo[a]pyrene	10.952	252	69632	477.52	ppb	95
24) Indeno(1,2,3-c,d)pyrene	12.428	276	74997m	532.66	ppb	
25) Dibenz[a,h]anthracene	12.466	278	73670	499.05	ppb	95
26) Benzo[g,h,i]perylene	12.844	276	73935	481.33	ppb	94

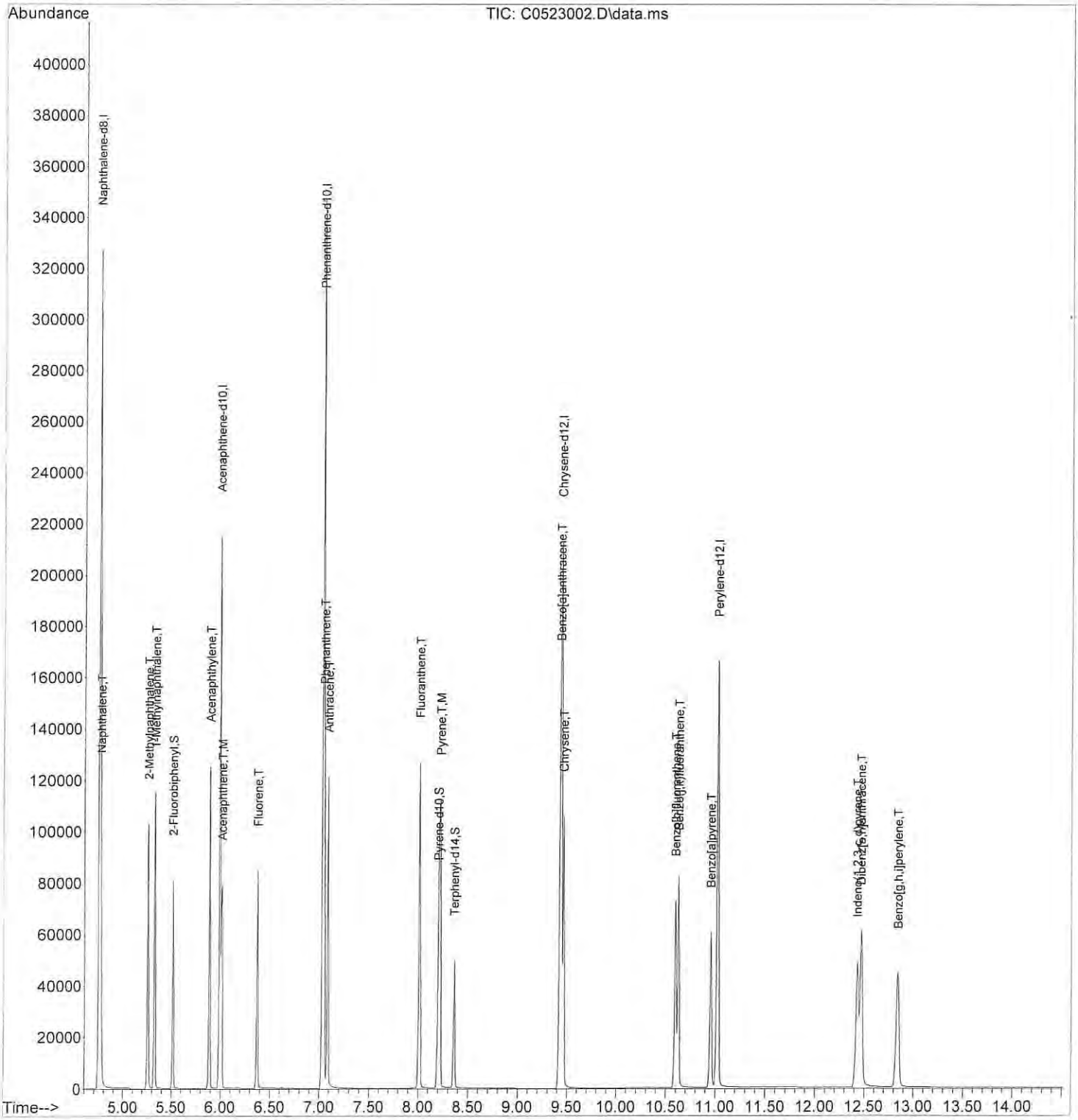
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/22/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240523\
Data File : C0523002.D
Acq On : 23 May 2024 9:57 am
Operator : JP
Sample : PAH CCV0523-1
Misc : SV6-156-04
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:29:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Mon May 20 07:52:31 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529002.D
Acq On : 29 May 2024 8:55 am
Operator : JP
Sample : PAH CCV0529-1
Misc : SV6-156-09
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 09:11:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	137	0.00
2	T	Naphthalene	500.000	459.666	8.1	126	0.00
3	T	2-Methylnaphthalene	500.000	460.150	8.0	130	0.00
4	T	1-Methylnaphthalene	500.000	471.368	5.7	130	0.00
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	150	0.00
6	S	2-Fluorobiphenyl	500.000	437.169	12.6	137	0.00
7	T	Acenaphthylene	500.000	446.173	10.8	133	0.00
8	T,M	Acenaphthene	500.000	428.246	14.4	131	0.00
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	156	0.00
10	S	Pyrene-d10	500.000	496.900	0.6	153	0.00
11	T	Fluorene	500.000	432.864	13.4	136	0.00
12	T	Phenanthrene	500.000	410.947	17.8	139	0.00
13	T	Anthracene	500.000	434.198	13.2	134	0.00
14	T	Fluoranthene	500.000	453.630	9.3	148	0.00
15	T,M	Pyrene	500.000	452.670	9.5	143	0.00
16	I	Chrysene-d12	2000.000	2000.000	0.0	172	0.01
17	S	Terphenyl-d14	500.000	452.598	9.5	162	0.00
18	T	Benzo[a]anthracene	500.000	496.354	0.7	160	0.01
19	T	Chrysene	500.000	439.179	12.2	148	0.02
20	I	Perylene-d12	2000.000	2000.000	0.0	176	0.02
21	T	Benzo[b]fluoranthene	500.000	507.630	-1.5	176	0.01
22	T	Benzo(j,k)fluoranthene	500.000	431.208	13.8	145	0.01
23	T	Benzo[a]pyrene	500.000	472.528	5.5	161	0.01
24	T	Indeno(1,2,3-c,d)pyrene	500.000	513.596	-2.7	176	0.02
25	T	Dibenz[a,h]anthracene	500.000	475.480	4.9	163	0.02
26	T	Benzo[g,h,i]perylene	500.000	467.681	6.5	159	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

JP
5/30/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529002.D
Acq On : 29 May 2024 8:55 am
Operator : JP
Sample : PAH CCV0529-1
Misc : SV6-156-09
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 09:11:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	4.644	136	294575	2000.00	ppb	0.00
5) Acenaphthene-d10	5.884	164	153820	2000.00	ppb	0.00
9) Phenanthrene-d10	6.922	188	278819	2000.00	ppb	0.00
16) Chrysene-d12	9.293	240	214854	2000.00	ppb	0.01
20) Perylene-d12	10.856	264	217678	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	5.414	172	61321	437.17	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 43.72%			
10) Pyrene-d10	8.074	212	58076	496.90	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.69%			
17) Terphenyl-d14	8.228	244	43270	452.60	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 45.26%			
Target Compounds						Qvalue
2) Naphthalene	4.659	128	79800	459.67	ppb	99
3) 2-Methylnaphthalene	5.153	142	50608	460.15	ppb	97
4) 1-Methylnaphthalene	5.222	142	51179	471.37	ppb	97
7) Acenaphthylene	5.784	152	82330	446.17	ppb	100
8) Acenaphthene	5.907	153	50639	428.25	ppb	100
11) Fluorene	6.269	166	60963	432.86	ppb	100
12) Phenanthrene	6.939	178	86860	410.95	ppb	95
13) Anthracene	6.974	178	77382	434.20	ppb	96
14) Fluoranthene	7.882	202	92819	453.63	ppb	93
15) Pyrene	8.084	202	93129	452.67	ppb	95
18) Benzo[a]anthracene	9.281	228	78737	496.35	ppb	94
19) Chrysene	9.322	228	77611	439.18	ppb	94
21) Benzo[b]fluoranthene	10.444	252	85882	507.63	ppb	94
22) Benzo(j,k)fluoranthene	10.473	252	78178	431.21	ppb	97
23) Benzo[a]pyrene	10.787	252	70132	472.53	ppb	95
24) Indeno(1,2,3-c,d)pyrene	12.187	276	73602m	513.60	ppb	
25) Dibenz[a,h]anthracene	12.226	278	71442	475.48	ppb	95
26) Benzo[g,h,i]perylene	12.580	276	73119	467.68	ppb	96

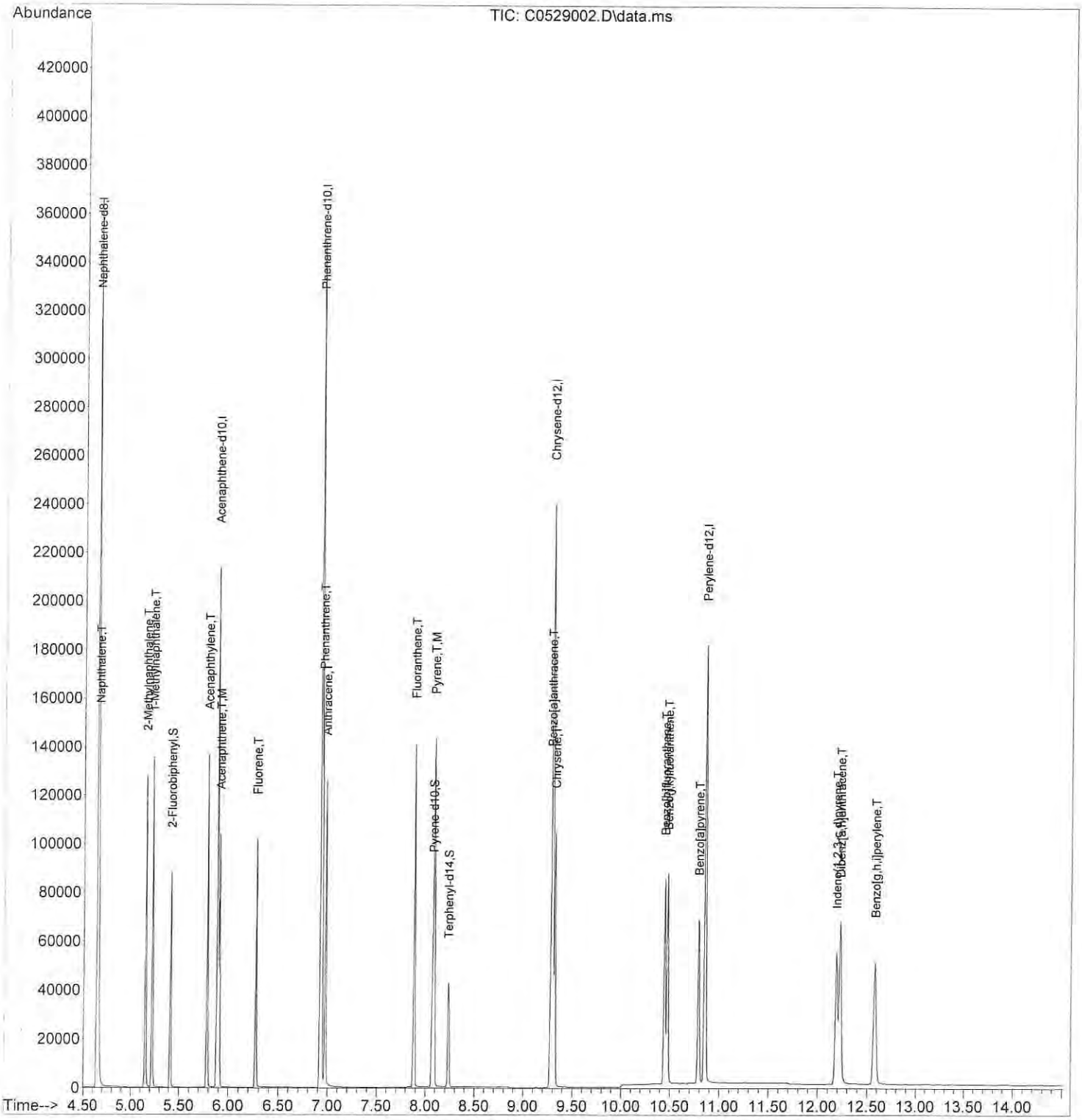
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
5/30/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240529\
Data File : C0529002.D
Acq On : 29 May 2024 8:55 am
Operator : JP
Sample : PAH CCV0529-1
Misc : SV6-156-09
ALS Vial : 2 Sample Multiplier: 1

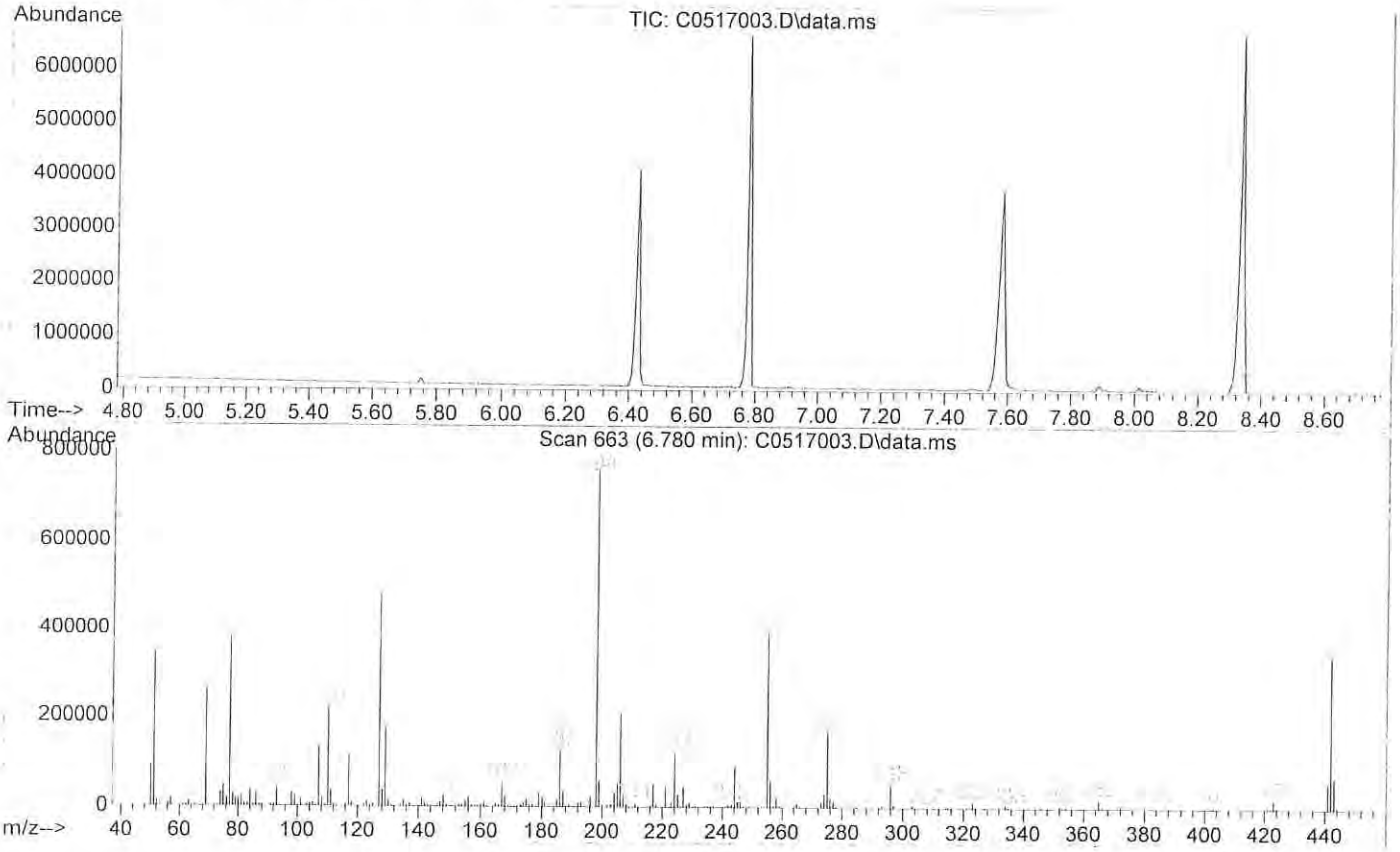
Quant Time: May 29 09:11:44 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240517.M
Quant Title : PAH'S BY SIMS
QLast Update : Wed May 29 08:38:40 2024
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C240517\
Data File : C0517003.D
Acq On : 17 May 2024 9:40 am
Operator : JP
Sample : DFTPP
Misc : SV6-154-06
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\CS240415.M
Title : PAH'S BY SIMS
Last Update : Thu May 16 10:10:57 2024



Spectrum Information: Scan 663

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.4	345856	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.7	264384	PASS
70	69	0.00	2	0.7	1779	PASS
127	198	10	80	62.7	477568	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	762176	PASS
199	198	5	9	7.7	58336	PASS
275	198	10	60	21.8	166400	PASS
365	198	0.10	100	2.4	18320	PASS
441	443	0.01	100	82.7	57192	PASS
442	198	40	110	45.0	342720	PASS
443	442	15	24	20.2	69168	PASS

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240517\C0517020.D
Tune Time : 17 May 2024 3:56 pm

Daily Calibration File : X:\semivols\Corey\DATA\C240517\C0517020.D

	(PRY)	(NPT)	(ACE)	(PHN)
		201523	95444	166562
		(CRY)	(PRY)	
		116193	115252	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0517009.D							
	20 PPB ICA	2*	2*	2*	208921	97919	167849
					116554	114606	
C0517010.D							
	50 PPB ICA	5*	5*	5*	210088	96704	167436
					115857	115355	
C0517011.D							
	100 PPB IC	10*	10*	10*	178431	84497	150088
					105428	105554	
C0517012.D							
	200 PPB IC	21*	21*	20*	214731	100847	174176
					120306	118751	
C0517013.D							
	500 PPB IC	48	51	48	214595	102701	178660
					125100	123990	
C0517017.D							
	10 PPB ICA	1*	1*	1*	211653	100247	176181
					121523	120959	
C0517018.D							
	1000 PPB I	92*	100	93*	202420	97114	170165
					121497	121287	
C0517019.D							
	5000 PPB I	420*	479*	439*	220930	109229	190911
					143474	141777	

(fails) - fails 12hr time check * - fails criteria

Created: Fri May 31 09:52:48 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240523\C0523002.D
Tune Time : 23 May 2024 9:57 am

Daily Calibration File : X:\semivols\Corey\DATA\C240523\C0523002.D

(PRY)	(NPT)	(ACE)	(PHN)
	296446	156183	281097
	(CRY)	(PRY)	
	214358	213867	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0523008.D							
	SB0523W1	53	87	80	299140	155777	283677
			217717		218936		
C0523009.D							
	SB0523W1 D	52	83	79	294596	154901	284962
			220319		221546		
C0523011.D							
	MB0523W1	44	82	75	297748	153773	285727
			219990		220429		
C0523017.D							
	05-311-02	61	88	84	320006	167736	304365
			228506		230004		
C0523018.D							
	05-311-01	65	90	88	320885	164163	290416
			212172		201610		
C0523019.D							
	05-311-03	65	88	91	308423	161608	291771
			213146		210726		

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 09:07:48 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240529\C0529002.D
Tune Time : 29 May 2024 8:55 am

Daily Calibration File : X:\semivols\Corey\DATA\C240529\C0529002.D

(PRY)	(NPT)	(ACE)	(PHN)
	294575	153820	278819

(CRY)	(PRY)
214854	217678

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0529003.D							
	SB0529W1	59	97	92	291796	155187	277808
			217040		218929		
C0529005.D							
	MB0529W1	67	86	82	284983	152642	278616
			214499		218577		
C0529006.D							
	05-311-04	57	88	84	278423	145115	263089
			201788		206315		
C0529007.D							
	05-311-05	47	76	73	284961	150022	274572
			213806		217635		
C0529010.D							
	SB0529W1 D	64	98	89	281383	147667	266352
			206655		209826		

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 22 10:00:38 2024 Corey

Sequence Name: C:\msdchem\1\sequence\C240517.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240517\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

	Line		Sample Name/Misc Info
1)	Sample	1	C0517001 CS240415 TEST
2)	Sample	2	C0517002 SIMSCAN DFTPP
3)	Sample	3	C0517003 SIMSCAN DFTPP
4)	Sample	4	C0517004 CS240415 M
5)	Sample	5	C0517005 CS240415 M
6)	Sample	6	C0517006 CS240415 M
7)	Sample	7	C0517007 CS240415 M
8)	Sample	8	C0517008 CS240415 10 PPB ICAL
9)	Sample	9	C0517009 CS240415 20 PPB ICAL
10)	Sample	10	C0517010 CS240415 50 PPB ICAL
11)	Sample	11	C0517011 CS240415 100 PPB ICAL
12)	Sample	12	C0517012 CS240415 200 PPB ICAL
13)	Sample	13	C0517013 CS240415 500 PPB ICAL
14)	Sample	14	C0517014 CS240415 M
15)	Sample	15	C0517015 CS240415 M
16)	Sample	16	C0517016 CS240415 m
17)	Sample	17	C0517017 CS240415 10 PPB ICAL
18)	Sample	18	C0517018 CS240415 1000 PPB ICAL
19)	Sample	19	C0517019 CS240415 5000 PPB ICAL
20)	Sample	20	C0517020 CS240415 ICV

Sequence Name: C:\msdchem\1\sequence\C240523.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240523\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0523001 CS240517 M
2)	Sample 2	C0523002 CS240517 PAH CCV0522-1
3)	Sample 3	C0523003 CS240517 SB0523S1
4)	Sample 4	C0523004 CS240517 SB0523S1 DUP
5)	Sample 5	C0523005 CS240517 MB0523S1
6)	Sample 6	C0523006 CS240517 05-326-05
7)	Sample 7	C0523007 CS240517 MB0523S3
8)	Sample 8	C0523008 CS240517 SB0523W1
9)	Sample 9	C0523009 CS240517 SB0523W1 DUP
10)	Sample 10	C0523010 CS240517 05-354-02
11)	Sample 11	C0523011 CS240517 MB0523W1
12)	Sample 12	C0523012 CS240517 MB0523S2
13)	Sample 13	C0523013 CS240517 05-286-01
14)	Sample 14	C0523014 CS240517 05-286-03
15)	Sample 15	C0523015 CS240517 05-334-58
16)	Sample 16	C0523016 CS240517 05-334-59
17)	Sample 17	C0523017 CS240517 05-311-02
18)	Sample 18	C0523018 CS240517 05-311-01
19)	Sample 19	C0523019 CS240517 05-311-03
20)	Sample 20	C0523020 CS240517 05-300-01
21)	Sample 21	C0523021 CS240517 05-300-02
22)	Sample 22	C0523022 CS240517 05-300-03
23)	Sample 23	C0523023 CS240517 05-300-09

Sequence Name: C:\msdchem\1\sequence\C240529.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240529\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0529001 CS240517 M
2)	Sample 2	C0529002 CS240517 PAH CCV0529-1
3)	Sample 3	C0529003 CS240517 SB0529W1
4)	Sample 4	C0529004 CS240517 SB0529W1 DUP
5)	Sample 5	C0529005 CS240517 MB0529W1
6)	Sample 6	C0529006 CS240517 05-311-04
7)	Sample 7	C0529007 CS240517 05-311-05
8)	Sample 8	C0529008 CS240517 SB0529S2
9)	Sample 9	C0529009 CS240517 SB0529S2 DUP
10)	Sample 10	C0529010 CS240517 SB0529W1 DUP REX
11)	Sample 11	C0529011 CS240517 MB0529S2
12)	Sample 12	C0529012 CS240517 05-400-01 MS
13)	Sample 13	C0529013 CS240517 05-400-01 MSD
14)	Sample 14	C0529014 CS240517 05-400-01
15)	Sample 15	C0529015 CS240517 05-400-02
16)	Sample 16	C0529016 CS240517 05-400-03 5X
17)	Sample 17	C0529017 CS240517 05-400-04 5X
18)	Sample 18	C0529018 CS240517 05-400-05
19)	Sample 19	C0529019 CS240517 05-400-06
20)	Sample 20	C0529020 CS240517 05-400-07 5X

OnSite Environmental Inc.

EPA 8270 EXTRACTION LOGBOOK

Date Extracted: 05/23/24 Time Ext. _____ am/pm

Analysis: PAH

Matrix: H2O

Surrogate Std. ID: SV6-154-02

Spike Std. ID: SV6-155-18

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB052-3w1		1000ml	25ml	1ml	100µl	—	—	JS	
SB 052-3w1		"	"	"	"	100µl	"	"	
SBD05 23w1		"	"	"	"	100µl	"	"	
05-311-01a		1561-508	"	"	"	—	"	"	Limited
" 02a		1574-508	"	"	"	"	"	"	"
" 03a		1553-507	"	"	"	"	"	"	L
05-300-01f		1521-513	"	"	"	"	"	"	
" 02f		1481-506	"	"	"	"	"	"	
" 03f		1550-499	"	"	"	"	"	"	
" 09q		1534-513	"	"	"	"	"	"	
05-334-58a		1569-545	"	"	"	"	"	"	Limited
" 59a		1575-585	"	"	"	"	"	"	

JD 5/28/24

Clean-up (L)Alumina

OnSite Environmental Inc.

EPA 8270 EXTRACTION LOGBOOK

Date Extracted: 05-29-24 Time Ext. _____ am/pm

Analysis: PAH

Matrix: H2O

Surrogate Std. ID: SVG-154-02

Spike Std. ID: SVG-155-18

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB0529W1		1000mL	25mL	1mL	100uL	—	T	JO	
SB-		↓	↓	↓	↓	100uL	↓	↓	
SBD-		↓	↓	↓	↓	↓	↓	↓	w/Rex
05-311-04b		1587-513	↓	↓	↓	T	↓	↓	
↓ -05b		1580-509	↓	↓	↓	↓	↓	↓	

JO 5/31/24

Clean-up (L)Alumina

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA cal	SV613001	SV612843	200ppm	100/100/100µL	200µL	20ppm	MeCl2	JP	11/1/23
8270 Cal Mix #5	SV613002							JP	11/1/23
B/N Surr Mix	03								
PAH Working Stock	04	SV613002	2000 ppm	50µL	10mL	10ppm	MeCl2		
		03	1000	100µL	1	1	1		
PAH Mix	05								
B/N Surr	06								
~~PAH ICV~~	~~07~~								
~~working Stock~~									
PAH ICV	07	SV613005	2000 ppm	50 µL	10mL	10ppm	MeCl2		
working Stock		06	1001	100	1	1	1		
ISTD Mix	08							JP	11/2/23
BNA 8270 ISTD	09	SV613003	4000ppm	1mL	8mL	500ppm	MeCl2		

31995 US/EN
8270 Calibration Mix #5, Revised
Lot# A0191064
Expire: 09/2028 Store: 10°C or colder 1 mL
2000 µg/mL each in Methylene Chloride
RESTEK

RESTEK 110 Benner Circle Bellefonte, PA 16823 Warning
31887 814-353-1300
Lot# A0197489 www.restek.com
Expire: 03/2029 Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is pholosensitive
Full label information for the chemical is provided on the outside package
Notebook Label
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

sigma-aldrich.com SIGMA-ALDRICH
Store at: 2-8°C Exp: Mar/24
fp: -11 °C closed cup
Rec. 6-21-23
CRM47543 Lot # LRAC8973
Polynuclear Aromatic Hydrocarbons Mix
certified reference material, 2000 µg/mL each component in benzene: dichloromethane (50:50), ampule of 1 mL
EPA 8310 PAH Mix, EPA Polynuclear aromatic hydrocarbon mix
Product of USA
Contains: Methylene chloride, Benzene, 3,4-Benzopyrene May produce an allergic reaction. Restricted to professional users. Safety datasheet is available. For R&D use only. Not for drug, household, or other uses.
NO GHS SYMBOL
SIGMA-ALDRICH Co., 3050 Spruce Street, St. Louis, MO 63103 USA 314-771-5765
SIGMA-ALDRICH CHEMIE GmbH, Riedstr. 2 D-89555 Steinheim 49 7329 970

RESTEK 110 Benner Circle Bellefonte, PA 16823 Warning
31887 814-353-1300
Lot# A0194490 www.restek.com
Expire: 01/2029 Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is pholosensitive
Full label information for the chemical is provided on the outside package
Notebook Label
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
Z-014J 1 mL
Internal Standard Mix
4.0 mg/mL in CH2Cl2
Lot: 222091449 6 comp(s)
Exp: Sep 30, 2032 Storage: Ambient (>5 °C)/Sonicate
FOR LABORATORY USE ONLY
H315 H335
H332 H302
H351 H350
P338 P360
P331 P233
P262 P202
Refer to SDS
Signal Word Warning

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	Analyte	Lot ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ICV	~~SVB13804~~	SVB13809	SVB13004	10ppm	10µL	200µL	500ppb	MeCl2	JP	1/11/24
	PAH Spike	SVB13802	SVB13708	100ppm	2.5mL	50mL	5ppm	Acetone	JP	1/11/24
5	PAH ICV	SVB13803	SB3007	10ppm	10µL	200µL	500ppb	MeCl2	JP	1/11/24
	PAH CCV	SVB13804	SVB13004	1	1	1	1	1	JP	1/12/24
	Surr Stock	SVB13805								

RESTEK 31887 — 110 Benner Circle Bellefonte, PA 16823 — 814-353-1300 — www.restek.com — Warning

Notebook Label

Lot# A0203840

Expire: 09/2029 Store: 10°C or colder

Revised BN Surrogate Mix

1000 µg/mL each in Methylene chloride

Sonication required. Mix is photosensitive

Full label information for the chemical is provided on the outside package.

Receipt Date: Opened Date: Made in USA For Laboratory Use Only

1 mL

10

PAH Surr	06	SVB13805	1000ppm	1mL	100mL	10ppm	Acetone		
PAH ICV	SVB13807	SVB13807	10ppm	10µL	200	500ppb	MeCl2		
PAH CCV	SVB13808	SVB13004						JP	1/15/24
PAH Working Stock	SVB13809 1	SVB13002 1 03	2000ppm 1000ppm	50mL 100mL	10mL	10ppm	MeCl2	JP	1/15/24
BNA ICV	SVB1381 10	SVB13811213	200ppm	200µL	200µL	20ppm	MeCl2	JP	01/16/24
PAH CCV	11	SVB13004	10 ppm	10mL	1	500ppb	1		P
Custom Stock	12								

AccuStandard® — 125 Market St, New Haven, CT 06513 — www.AccuStandard.com

H315 H335 H332 H302 H350 H350 P338 P360 P331 P233 P262 P202 Refer to SDS

Signal Word: Danger

S-15651 1 mL

Custom SVOC and VOC Standard

1000 µg/mL in Methylene chloride

Lot: 222051034-01 5 comp(s)

Exp: Mar 14, 2024 Storage: Freeze (<-10 °C)

PRODUCT OF THE USA FOR LABORATORY USE ONLY

20

8270 Surr Std	13								

AccuStandard® — 125 Market St, New Haven, CT 06513 — www.AccuStandard.com

H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS

Signal Word: Warning

M-8270-SS 1 mL

Method 8270 - Surrogate Standard

4.0 mg/mL in CH2Cl2

Lot: 223021323 6 comp(s)

Exp: Feb 15, 2033 Storage: Ambient (>5 °C)

PRODUCT OF THE USA FOR LABORATORY USE ONLY

25

Benzoic Acid Stock	14								

RESTEK 31879 — 110 Benner Circle Bellefonte, PA 16823 — 814-353-1300 — www.restek.com — Warning

Notebook Label

Lot# A0212174

Expire: 09/2027 Store: 10°C or colder

Benzoic Acid Mix

2000 µg/mL each in Methylene Chloride

Full label information for the chemical is provided on the outside package.

Receipt Date: Opened Date: Made in USA For Laboratory Use Only

1 mL

30

8270 ICAL #1	15	SVB13809	1000ppm	0.5mL	2.5mL	200ppm	MeCl2		
#2	16	SVB13812	1	1mL	5mL	1	1		
1	13	1	1000ppm	0.25mL	1	1	1		
35 Benzoic Acid	17	14	2000ppm	0.5mL	1	1	1		

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
ISTD Mix	SVG14001							JP	1/29/24

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
Z-014J 1 mL
Internal Standard Mix
4.0 mg/mL in CH2Cl2
Lot: 223061537 6 comp(s)
Exp: Jun 28, 2033 Storage: Ambient (>5 °C)/Sonicate
PRODUCT OF THE USA FOR LABORATORY USE ONLY
H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH ISTD	02	SVG14001	4000ppm	0.5mL	50mL	40ppm	MeCl2	JP	1/29/24
8270 Megamix	03								

RESTEK 31850
110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com
Warning Danger
Lot# A0204762
Expire 05/2025 Store 0°C or colder
8270 MegaMix®
500-1000 µg/mL each in Methylene Chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
[Notebook Label]
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
Custom Std	04								

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
S-15651 1 mL
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 222051034-01 5 comp(s)
Exp: Mar 14, 2024 Storage: Freeze (<-10 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY
H315 H335 H332 H302 H350 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Danger

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 Spike #1	05	SVG14003	1000ppm	1mL	5mL	200ppm	Acetone	JP	1/29/24
#2	06	04							
Benzoic Acid Spike	07	SVG13814	2000ppm	0.25mL	2.5mL	200ppm	Acetone	JP	1/30/24
PAH CCV	SVG14008	SVG13004	10ppm	10µL	200µL	500ppb	MeCl2		
BNA CCV	09	SVG13815/16/17	200ppm	20/20/20µL		20ppm			
PAH CCV	SVG14010	SVG13004	10ppm	10µL		500ppb			1/31/24
BNA 60	11	SVG13714/13	200 ppm	60 µL each		60 ppm			
50	12			50		50			
35	13			35		35			
20	14			40	400 µL	20			
10	15			10	200 µL	10			
5	16	SVG14014	20	50		5			
2	17			20		2			
1	18			10		1			
0.5	19			5		0.5			
ICV	20	SVG13815/16/17	200	20 each		20			

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
5270 ICAL #1	~~SV6147 01~~	SV6147 01	SV6146 [illegible]	1000 ppm	1mL	5mL	200ppm	MeCl2	JP	3/26/24
5270	ICAL #2 07	SV6147 02	SV6146 15	1	1mL					
5			16	2000 ppm	0.5mL					
			17	4000 ppm	0.25mL					
	~~5270~~ BNA 60	SV6147 03	SV6147 1/2	200ppm	60/60 µL	200µL	60 ppm	MeCl2	JP	3/26/24
	50	04			50/50	1	50			
	35	05			35/35		35			
10	20	06			40/40	400µL	20			
	10	07			10/10	200µL	10			
	5	08	SV6147 06	20ppm	50		5			
	2	09			20		2			
	1	10			10		1			
15	0.5	11			5		0.5			
	ICV	12	SV6137 01/4601	200ppm	20/20		20			
	PAH CCV	SV6147 13	SV6138 09	10ppm	~~200µL~~ 10µL	200µL	500ppb	MeCl2	JP	3/26/24
	BNA CCV	14	SV6147 1/2	200 ppm	20/20 µL		20ppm			
	BNA CCV	15	1	1	1		1			
20	PAH CCV	16	SV6138 09	10	10µL		500ppb			
	PAH CCV	SV6147 17	1	1	1		1			
	BNA CCV	18	SV6147 1/2	200	20/20µL		20ppm			
	BNA CCV	SV6147 19	SV6147 1/2	1	1		1			
	PAH ICV	SV6147 20	SV6138 09	10	10µL		500ppb		JP	3/29/24
25	PAH CCV	21	SV6138 09	1	1		1		JP	4/1/24
	BNA CCV	22	SV6147 1/2	200	20/20µL		20ppm			
	~~BNA~~ CCV	23	1	1	1		1			4/2/24
	PAH CCV	24	SV6138 09	10	10µL		500ppb		JP	4/2/24
	BNA CCV	25	SV6147 1/2	200	20/20µL		20ppm			4/3/24
30	PAH MIR	SV6147 26								

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
~~SV0148~~ BIN Surr Mix	SV014801						MeCl2	JP	4/3/24

RESTEK 31887 · 110 Benner Circle Bellefonte, PA 16823 · 814-353-1300 · www.restek.com · Warning
↓Notebook Label↑ Lot# A0207660 · Expire: 01/2030 · Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required. Mix is photosensitive.
Full label information for the chemical is provided on the outside package
Receipt Date: · Opened Date: · Made in USA · For Laboratory Use Only · 1 mL · Vial Label

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
DAH ICV	02	SV014726	2000 ppm	50 µL	10 mL	10 ppm			
Stock		14801	1000 "	100 µL	\	"			
DAH ICV	03	SV014802	10 ppm	10 µL	200 µL	500 ppb			
OPP A	SV014804								4/4/24

RESTEK 32277 · 110 Benner Circle Bellefonte, PA 16823 · 814-353-1300 · www.restek.com · Danger
↓Notebook Label↑ Lot# A0203660 · Expire: 10/2024 · Store: 10°C or colder
8140/8141 OP Pesticide Calibration Mix A
200 µg/mL each in Hexane/Acetone (80:20)
This product is photosensitive.
Full label information for the chemical is provided on the outside package
Receipt Date: · Opened Date: · Made in USA · For Laboratory Use Only · 1 mL · Vial Label

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP A	05								

RESTEK 32277 · 110 Benner Circle Bellefonte, PA 16823 · 814-353-1300 · www.restek.com · Danger
↓Notebook Label↑ Lot# A0205272 · Expire: 12/2024 · Store: 10°C or colder
8140/8141 OP Pesticide Calibration Mix A
200 µg/mL each in Hexane/Acetone (80:20)
This product is photosensitive.
Full label information for the chemical is provided on the outside package
Receipt Date: · Opened Date: · Made in USA · For Laboratory Use Only · 1 mL

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP B	06								

RESTEK 32278 · 110 Benner Circle Bellefonte, PA 16823 · 814-353-1300 · www.restek.com · Danger
↓Notebook Label↑ Lot# A0204092 · Expire: 11/2024 · Store: 10°C or colder
8141 OP Pesticide Calibration Mix B
200 µg/mL each in Hexane/Acetone (95:5)
This product is photosensitive.
Full label information for the chemical is provided on the outside package
Receipt Date: · Opened Date: · Made in USA · For Laboratory Use Only · 1 mL

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP B	07								

RESTEK 32278 · 110 Benner Circle Bellefonte, PA 16823 · 814-353-1300 · www.restek.com · Danger
↓Notebook Label↑ Lot# A0202657 · Expire: 09/2024 · Store: 10°C or colder
8141 OP Pesticide Calibration Mix B
200 µg/mL each in Hexane/Acetone (95:5)
This product is photosensitive.
Full label information for the chemical is provided on the outside package
Receipt Date: · Opened Date: · Made in USA · For Laboratory Use Only · 1 mL

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP ICAL A	08	SV014804	200 ppm	100 µL	2 mL	10 ppm	MeCl2		
		SV013416	1000 ppm	20					
OPP ICAL	09	SV014806	200 ppm	100					
OPP ICV ICAL A	10	SV014805	"	100					
		SV013501	1000 ppm	20					
OPP ICV B	11	SV014807	200 ppm	100					
OPP 200	~~200~~ 12	SV014819	10 ppm	4/4 µL	200 µL	200 ppb			
500	13			10/10		500			
1000	14			20/20		1000			
2000	15			40/40		2000			
3000	16			60/60		3000			
4000	17			80/80		4000			

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	BNA ICV	SV6150-01	SV6137 1/2	200 ppm	20/20 µL	200 µL	20 ppm	MeCl2	JP	4/11/24
	PAH ICV	02	SV613809	10 ppm	10 µL	1	500 ppb			
5	PAH ICV	03	1	1	1	200 µL	1		JP	4/12/24
	BNA ICV	04	SV6137 1/2	200 ppm	20/20 µL	1	20 ppm			
	PAH 5000	SV6150 05	SV613809	10 ppm	500 µL	1 mL	5000 ppb			
	1000	06			100		100			
	500	07			50		500			
10	200	08			20		200			
	100	09			10		100			
	50	10	SV615000	1000 ppb	50		50			
	20	11			20		20			
	10	12			10		10			
15	PAH ICV	SV6150 13	SV6 14802	100 ppm	10 µL	200 µL	5000 ppb		JP	4/13/24
	BNA ICV	SV6150 14	SV6137 1/2	200 ppm	20/20 µL	200 µL	20 ppm	MeCl2	JP	4/15/24
	BNA CCV	SV6150 15	1	1	1	1	1	1	JP	4/16/24
	PAH CCV	SV6150 16	SV613809	100 ppm	10 µL	1	500 ppb	MeCl2	JP	4/16/24
	PAH CCV	SV6150 17	1	1	1	1	1	1	JP	4/17/24
20	BNA ICV	SV6150 18	SV6138 5/1460	200 ppm	20/20 µL	1	20 ppm	1	1	1
	Surr Stock	19								

RESTEK 31887
110 Benner Circle Bellefonte, PA 16823
814-353-1300
www.restek.com
Notebook Label
Lot# A0203840
Expire: 09/2029 Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required. Mix is photosensitive.
Full label information for the chemical is provided on the outside package
Warning
Receipt Date:
Opened Date:
Made in USA
For Laboratory Use Only
1 mL

25	PAH Surr	20	SV615019	100 ppm	1 mL	100 mL	10 ppm	Acetone		
	PAH CCV	SV6150 21	SV613809	100 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	4/18/24
	BNA CCV	SV6150 22	SV6138 5/1460	200 ppm	20/20 µL	200 µL	20 ppm	MeCl2	JP	4/19/24
	PAH CCV	SV6150 23	SV613809	100 ppm	10 µL	200 µL	500 ppb	MeCl2	JP	4/19/24
	BNA CCV	SV6150 24	SV6138 5/1460	200 ppm	20/20 µL	200 µL	20 ppm	MeCl2	JP	4/22/24
30	Custom SV02	25								

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

S-15651
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 224021347
Exp: Mar 26, 2025
PRODUCT OF THE USA

1 mL
5 comp(s)
Storage: Freeze (<-10 °C)
FOR LABORATORY USE ONLY

H315 H335
H332 H302
H350 H350
P338 P360
P331 P233
P262 P202
Refer to SDS

Signal Word: Warning

35	SV02 Spike #2	26	SV615025	1000 ppm	1 mL	5 mL	200 ppm	Acetone	JP	4/23/24

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc		Solvent	Init	Date
~~SV6155~~	SV6155501								JP	5/20/24
Dimethyl Phthalate										
8270 MDL Spike A	SV6155502	SV612509	1000 ppm	100 µL	10mL	10	ppm	Acetone		
		SV615420	1	1000		100				
8270 MDL	03	SV615419		100		10				
Spike B		SV613620	2000	250		50				
8270 MDL Extra #1	04	SV612601	1	250		50				
		02		500		100				
		03	5000	100		50				
		04	1000	500		50				
		05	2000	256		50				
8270 MDL Extra #2	05	SV6155501	1000	1000		100				
		SV612607	2000	5		1				
3,3-Dichlorobenzidine	06	SV612601	2000	250		50				
PAH Spike	SV6155-07	SV613708	100ppm	2.5mL	50mL	5ppm		Acetone	JP	5/20/24
OPP 1STD	SV6155-08	SV613510	10000ppm	320µL	8mL	40ppm		MeCl2	JP	5/21/24
OPP 200	SV6155 09	SV614881 9	10ppm	4/4 µL	200µL	200	ppb			
500	10			10/10		500				
1000	11			20/20		1000				
2000	12			40/40		2000				
~~3000~~	13			60/60		3000				
4000	14			80/80		4000				
— ICV	15	SV614810/11		20/20		1000				
8270 CALMix #5	16									
PAH Stock	17	SV615516	2000ppm	1mL	20mL	100ppm		MeCl2		
PAH Spike	18	SV615517	100ppm	2.5mL	50mL	5ppm		Acetone		

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

APP-9-088-10X 1 mL
Dimethyl phthalate
1000 µg/mL in Methanol
Lot: 221121015
Exp: Mar 03, 2030
1 comp(s)
Storage: Ambient (>5 °C)
PRODUCT OF THE USA
FOR LABORATORY USE ONLY

H225 H336 H370 H320 H315 H311 H332 H301 H360 P338 P360 P331 Refer to SDS
Signal Word: Danger

31995 US/EN
8270 Calibration Mix #5, Revised
Lot# A0191064
Expire: 09/2028 Store: 10°C or colder 1 mL
2000 µg/mL each in Methylene Chloride
RESTEK

Spike required

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH CCV	SV615601	SV613809	10ppm	10µL	200µL	500ppb	MeCl2	JP	5/21/24
OPP CCV	02	SV614819		20/20µL		1000ppb		JP	5/22/24
PAH CCV	03	SV613809		10µL		500ppb			
PAH CCV	SV615604							JP	5/23/24
BNA CCV	SV615605	SV614711L	200ppm	20/20µL		20ppm		JP	5/23/24
BNA CCV	SV615606							JP	5/24/24
PAH CCV	SV615607	SV613809	10ppm	10µL		500ppb			
PAH CCV	SV615608							JP	5/28/24
PAH CCV	09							JP	5/29/24
BNA CCV	10	SV614711L	200ppm	20/20µL		20ppm			
BNA CCV	11	SV613815 14601						JP	5/30/24
8270 Surr Stock	12							JP	5/30/24

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021602 6 comp(s)
Exp: Mar 01, 2033 Storage: Ambient (>5 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY
H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com
M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH2Cl2
Lot: 223021602 6 comp(s)
Exp: Mar 01, 2033 Storage: Ambient (>5 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY
H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
8270 Surr	13	SV615612	4000ppm	2mL	100mL	80ppm	Acetone	JP	5/30/24
BNA 60	14	SV614711L	200ppm	60/60 µL	200µL	60 ppm	MeCl2		
50	15			50/50		50			
35	16			35/35		35			
20	17			40/40	400µL	20			
10	18			10/10	200µL	10			
5	19	SV615617	20ppm	50		5			
2	20			20		2			
1	21			10		1			
0.5	22			5		0.5			
ICV	23	SV613815 14601	200ppm	20/20		20			
PAH CCV	24	SV613809	10ppm	10		0.5			

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Total Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

5-31-24
tpm

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\
Report Date/Time: Friday, May 31, 2024 16:11:30

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	12:37:38 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Sample	12:43:19 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Blank	12:50:17 Fri 31-Ma	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 1	12:55:07 Fri 31-Ma	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 2	12:59:58 Fri 31-Ma	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 3	13:04:49 Fri 31-Ma	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 4	13:09:40 Fri 31-Ma	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 5	13:14:31 Fri 31-Ma	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 6	13:19:22 Fri 31-Ma	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	Standard 7	13:24:12 Fri 31-Ma	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 1	13:29:53 Fri 31-Ma	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 2	13:35:34 Fri 31-Ma	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 6	13:40:27 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 7	13:46:08 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 8	13:51:49 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	MB0529WM1 2X	13:56:40 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	SB0529WM1 2X	14:02:20 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07b 2X	14:08:00 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07bD 2X	14:13:39 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07bL 10X	14:19:56 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07bMS 2X	14:25:35 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07bMSD 2X	14:31:15 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-300-07bPS 2X	14:36:55 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-353-02k 2X	14:42:36 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-353-07k 2X	14:48:16 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 6	14:53:57 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 7	14:59:38 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 8	15:05:20 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-353-10k 2X	15:11:02 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-353-15k 2X	15:16:42 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-330-02c 2X 29WH	15:22:22 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-335-01 10X	15:28:02 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-335-02 10X	15:33:42 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-335-03 10X	15:39:21 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-335-04 10X	15:45:01 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	05-335-05 10X	15:50:40 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 6	15:56:21 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 7	16:02:02 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	
	QC Std 8	16:07:42 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240E	

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, May 31, 2024 07:00:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\05MAY24\Y240531A\[STD] Performance Check.003
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	60966.2	60966.226	664.149	1.1	Standard
	In	114.9	372756.9	372756.943	307.370	0.1	Standard
	U	238.1	395564.4	395564.394	3631.895	0.9	Standard
Ce	CeO	155.9	11058.3	0.024	0.000	2.0	Standard
Ce	Ce++	70.0	12977.2	0.029	0.000	0.5	Standard
	Bkgd	220.5	0.4	0.400	0.253	63.2	Standard
	Ce	139.9	452141.0	452140.981	1713.129	0.4	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
1.00	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
1.00	Ammonia DRC - DRC Mode NEB
2.00	Ammonia DRC - Hyperskimmer Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Helium KED - Hyperskimmer Park Voltage
5.00	Helium KED - OmniRing Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:00:04 Fri 31-May-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	6.975	1222	2062	0.696	
Mg	23.985	23.975	4579	2063	0.715	
In	114.904	114.875	22592	2066	0.719	
Pb	207.977	207.975	41052	2066	0.719	
U	238.050	238.075	47019	2067	0.724	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Cr	51.941	Weighted Linear	0.03	-0.00	0.999593
Cr -1	52.941	Weighted Linear	0.00	-0.00	0.998856
Ni	57.935	Weighted Linear	0.03	0.01	0.999330
Ni -1	59.933	Weighted Linear	0.01	-0.00	0.998532
Ni -2	61.928	Weighted Linear	0.00	-0.00	0.997156
Cu	62.930	Weighted Linear	0.02	-0.00	0.998239
Cu -1	64.928	Weighted Linear	0.01	-0.00	0.998509
Zn	65.926	Weighted Linear	0.01	0.00	0.998793
Zn -1	66.927	Weighted Linear	0.00	0.00	0.998483
Zn -2	67.925	Weighted Linear	0.00	-0.00	0.999251
As	74.922	Weighted Linear	0.01	0.00	0.999172
As-1	74.922	Weighted Linear	0.01	0.00	0.998848
Se	76.920	Weighted Linear	0.00	0.00	0.999796
Se -1	77.917	Weighted Linear	0.00	-0.00	0.999029
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	-0.00	0.999418
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Cd	110.904	Weighted Linear	0.01	0.00	0.998556
Cd -1	113.904	Weighted Linear	0.02	0.00	0.998819
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.07	0.00	0.998870
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Cr -2	51.941	Weighted Linear	0.07	0.00	0.999112
Cr -3	52.941	Weighted Linear	0.01	0.00	0.997333
Ni -3	57.935	Weighted Linear	0.09	-0.00	0.998625
Ni -4	59.933	Weighted Linear	0.04	-0.00	0.999076
Ni -5	61.928	Weighted Linear	0.01	-0.00	0.997681
Cu -2	62.930	Weighted Linear	0.10	-0.00	0.998337
Cu -3	64.928	Weighted Linear	0.05	-0.00	0.998050
Zn -3	65.926	Weighted Linear	0.01	0.00	0.998330
Zn -4	66.927	Weighted Linear	0.00	0.00	0.999388
Zn -5	67.925	Weighted Linear	0.01	0.00	0.999687
As-2	74.922	Weighted Linear	0.01	-0.00	0.998560
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Cd -2	110.904	Weighted Linear	0.01	0.00	0.998664
Cd -3	113.904	Weighted Linear	0.04	0.00	0.998593
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 31, 2024 12:50:17
Report Date/Time: Friday, May 31, 2024 12:53:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Blank.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	23727.7	1.5				ug/L		Standard
|	Cr -1	53	4227.3	2.3				ug/L		Standard
|	Ni	58	-9346.7	2.1				ug/L		Standard
|	Ni -1	60	242.0	8.3				ug/L		Standard
|	Ni -2	62	1958.5	3.7				ug/L		Standard
|	Cu	63	2501.9	2.0				ug/L		Standard
|	Cu -1	65	483.3	3.5				ug/L		Standard
|	Zn	66	770.4	2.3				ug/L		Standard
|	Zn -1	67	161.3	4.7				ug/L		Standard
|	Zn -2	68	753.7	1.8				ug/L		Standard
|	As	75	12256.1	1.2				ug/L		Standard
|	As-1	75	25.3	89.5				ug/L		Standard
|	Se	77	145.0	8.5				ug/L		Standard
|	Se -1	78	12290.6	1.1				ug/L		Standard
|	Br	79	304.0	2.0				ug/L		Standard
|	Se -2	82	41.7	9.7				ug/L		Standard
	Kr	83	35.7	16.2				ug/L		Standard
	Y	89	618385.9	1.1				ug/L		Standard
|	Rh	103	111544.1	0.2				ug/L		Standard
|	Cd	111	192.5	2.8				ug/L		Standard
|	Cd -1	114	22.9	1.6				ug/L		Standard
|	Ho	165	521140.0	0.2				ug/L		Standard
|	Pb	208	518.0	6.4				ug/L		Standard
|	Bi	209	295515.6	2.9				ug/L		Standard
|	Th	232	378918.0	1.9				ug/L		Standard
|	Cr -2	52	283.0	3.9				ug/L		KED
|	Cr -3	53	38.0	9.5				ug/L		KED
|	Ni -3	58	148.2	13.2				ug/L		KED
|	Ni -4	60	58.0	12.1				ug/L		KED
|	Ni -5	62	12.3	24.8				ug/L		KED
|	Cu -2	63	286.7	5.5				ug/L		KED
|	Cu -3	65	136.0	8.9				ug/L		KED
|	Zn -3	66	93.3	8.2				ug/L		KED
|	Zn -4	67	15.3	27.2				ug/L		KED
|	Zn -5	68	67.7	6.2				ug/L		KED
|	As-2	75	3.0	33.3				ug/L		KED
	Y-1	89	64897.4	0.5				ug/L		KED
	Rh-1	103	44712.2	0.5				ug/L		KED
|	Cd -2	111	3.7	15.7				ug/L		KED
|	Cd -3	114	8.0	33.1				ug/L		KED
| >	Sc	45	772315.6	3.0				ug/L		Standard
| >	Ge	72	431845.8	1.6				ug/L		Standard
| >	In	115	412956.7	0.9				ug/L		Standard
| >	Tb	159	554760.7	0.7				ug/L		Standard
| >	Ge-1	72	30473.5	1.5				ug/L		KED
| >	In-1	115	42430.8	1.3				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 31, 2024 12:55:07
Report Date/Time: Friday, May 31, 2024 12:58:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 1.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	27698.5	1.0				ug/L	23728	Standard
|	Cr -1	53	4540.1	2.0				ug/L	4227	Standard
|	Ni	58	-6658.6	3.0				ug/L	-9347	Standard
|	Ni -1	60	1165.0	1.7				ug/L	242	Standard
|	Ni -2	62	1881.5	4.3				ug/L	1958	Standard
|	Cu	63	3910.9	2.9				ug/L	2502	Standard
|	Cu -1	65	1175.7	2.5				ug/L	483	Standard
|	Zn	66	791.7	6.0				ug/L	770	Standard
|	Zn -1	67	187.0	8.3				ug/L	161	Standard
|	Zn -2	68	756.7	4.2				ug/L	754	Standard
|	As	75	13422.1	2.6				ug/L	12256	Standard
|	As-1	75	533.6	3.0				ug/L	25	Standard
|	Se	77	178.7	3.9				ug/L	145	Standard
|	Se -1	78	13043.3	2.6				ug/L	12291	Standard
|	Br	79	269.7	2.2				ug/L	304	Standard
|	Se -2	82	80.0	10.0				ug/L	42	Standard
	Kr	83	28.7	2.0				ug/L	36	Standard
	Y	89	596057.4	1.7				ug/L	618386	Standard
|	Rh	103	107228.7	1.6				ug/L	111544	Standard
|	Cd	111	855.3	3.7				ug/L	192	Standard
|	Cd -1	114	1690.1	3.5				ug/L	23	Standard
|	Ho	165	537713.3	1.6				ug/L	521140	Standard
|	Pb	208	8841.7	1.8				ug/L	518	Standard
|	Bi	209	303803.3	1.0				ug/L	295516	Standard
|	Th	232	382000.4	0.6				ug/L	378918	Standard
|	Cr -2	52	759.0	3.8				ug/L	283	KED
|	Cr -3	53	97.3	2.1				ug/L	38	KED
|	Ni -3	58	594.7	4.7				ug/L	148	KED
|	Ni -4	60	265.7	7.0				ug/L	58	KED
|	Ni -5	62	41.7	3.7				ug/L	12	KED
|	Cu -2	63	735.4	2.5				ug/L	287	KED
|	Cu -3	65	346.7	1.0				ug/L	136	KED
|	Zn -3	66	101.7	9.1				ug/L	93	KED
|	Zn -4	67	15.7	35.2				ug/L	15	KED
|	Zn -5	68	72.0	13.2				ug/L	68	KED
|	As-2	75	49.3	3.1				ug/L	3	KED
	Y-1	89	63670.6	0.6				ug/L	64897	KED
	Rh-1	103	43501.5	0.4				ug/L	44712	KED
|	Cd -2	111	141.7	18.7				ug/L	4	KED
|	Cd -3	114	384.0	5.9				ug/L	8	KED
| >	Sc	45	738798.4	1.1				ug/L	772316	Standard
| >	Ge	72	437471.8	1.9				ug/L	431846	Standard
| >	In	115	414720.4	2.1				ug/L	412957	Standard
| >	Tb	159	564376.7	1.6				ug/L	554761	Standard
| >	Ge-1	72	29881.9	1.0				ug/L	30473	KED
| >	In-1	115	41503.7	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 31, 2024 12:59:58
Report Date/Time: Friday, May 31, 2024 13:03:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 2.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	34092.7	3.0				ug/L	23728	Standard
|	Cr -1	53	5035.9	0.7				ug/L	4227	Standard
|	Ni	58	-3305.3	6.8				ug/L	-9347	Standard
|	Ni -1	60	2431.9	2.4				ug/L	242	Standard
|	Ni -2	62	2126.5	1.9				ug/L	1958	Standard
|	Cu	63	6867.7	0.7				ug/L	2502	Standard
|	Cu -1	65	2523.9	0.4				ug/L	483	Standard
|	Zn	66	1512.7	2.5				ug/L	770	Standard
|	Zn -1	67	290.0	2.5				ug/L	161	Standard
|	Zn -2	68	1281.4	4.1				ug/L	754	Standard
|	As	75	14195.1	0.3				ug/L	12256	Standard
|	As-1	75	1143.1	2.8	**0.5000**	0.021	4.2	ug/L	25	Standard
|	Se	77	234.3	6.5				ug/L	145	Standard
|	Se -1	78	13346.6	0.5				ug/L	12291	Standard
|	Br	79	273.3	8.4				ug/L	304	Standard
|	Se -2	82	135.3	1.1				ug/L	42	Standard
	Kr	83	35.0	4.9				ug/L	36	Standard
	Y	89	604232.2	1.0				ug/L	618386	Standard
|	Rh	103	109399.8	2.5				ug/L	111544	Standard
|	Cd	111	1643.0	6.1	**0.5000**	0.036	7.1	ug/L	192	Standard
|	Cd -1	114	3797.1	1.4	**0.5000**	0.011	2.2	ug/L	23	Standard
|	Ho	165	545863.9	0.6				ug/L	521140	Standard
|	Pb	208	19238.7	1.1	**0.5000**	0.008	1.6	ug/L	518	Standard
|	Bi	209	309635.5	0.9				ug/L	295516	Standard
|	Th	232	392961.9	1.3				ug/L	378918	Standard
|	Cr -2	52	1384.7	0.9				ug/L	283	KED
|	Cr -3	53	178.3	12.2				ug/L	38	KED
|	Ni -3	58	1395.7	4.7				ug/L	148	KED
|	Ni -4	60	619.7	1.7				ug/L	58	KED
|	Ni -5	62	88.3	22.0				ug/L	12	KED
|	Cu -2	63	1576.1	1.0				ug/L	287	KED
|	Cu -3	65	714.0	3.9				ug/L	136	KED
|	Zn -3	66	180.0	3.3				ug/L	93	KED
|	Zn -4	67	30.3	16.6				ug/L	15	KED
|	Zn -5	68	136.7	7.3				ug/L	68	KED
|	As-2	75	106.3	12.2				ug/L	3	KED
	Y-1	89	64599.4	0.5				ug/L	64897	KED
	Rh-1	103	44311.3	0.5				ug/L	44712	KED
|	Cd -2	111	314.7	5.6	**0.5000**	0.031	6.2	ug/L	4	KED
|	Cd -3	114	825.4	4.6	**0.5000**	0.026	5.1	ug/L	8	KED
| >	Sc	45	754739.0	0.5				ug/L	772316	Standard
| >	Ge	72	441905.8	1.8				ug/L	431846	Standard
| >	In	115	419935.3	1.4				ug/L	412957	Standard
| >	Tb	159	573679.5	1.0				ug/L	554761	Standard
| >	Ge-1	72	30135.1	0.6				ug/L	30473	KED
| >	In-1	115	42337.4	0.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 31, 2024 13:04:49
Report Date/Time: Friday, May 31, 2024 13:08:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 3.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	72780.3	1.7	**2.0000**	0.053	2.6	ug/L	23728	Standard
|	Cr -1	53	9809.7	2.8	**2.0000**	0.072	3.6	ug/L	4227	Standard
|	Ni	58	16361.1	3.1				ug/L	-9347	Standard
|	Ni -1	60	10378.4	2.2	**2.0000**	0.033	1.7	ug/L	242	Standard
|	Ni -2	62	3343.4	0.6	**2.0000**	0.086	4.3	ug/L	1958	Standard
|	Cu	63	24459.9	3.3	**2.0000**	0.038	1.9	ug/L	2502	Standard
|	Cu -1	65	10581.6	2.4	**2.0000**	0.031	1.5	ug/L	483	Standard
|	Zn	66	5926.6	4.4				ug/L	770	Standard
|	Zn -1	67	1050.0	8.2				ug/L	161	Standard
|	Zn -2	68	4360.0	4.7				ug/L	754	Standard
|	As	75	17259.4	2.5	**2.0000**	0.037	1.8	ug/L	12256	Standard
|	As-1	75	5045.9	1.9	**2.1099**	0.067	3.2	ug/L	25	Standard
|	Se	77	456.3	3.9	**2.0000**	0.097	4.9	ug/L	145	Standard
|	Se -1	78	13393.9	3.1				ug/L	12291	Standard
|	Br	79	284.3	3.2				ug/L	304	Standard
|	Se -2	82	483.0	4.7	**2.0000**	0.131	6.6	ug/L	42	Standard
	Kr	83	32.3	36.6				ug/L	36	Standard
	Y	89	605029.1	1.3				ug/L	618386	Standard
|	Rh	103	108391.4	1.5				ug/L	111544	Standard
|	Cd	111	6657.3	2.6	**2.1046**	0.030	1.4	ug/L	192	Standard
|	Cd -1	114	16468.5	2.5	**2.0800**	0.018	0.9	ug/L	23	Standard
|	Ho	165	538083.0	1.8				ug/L	521140	Standard
|	Pb	208	81940.4	1.4	**2.0874**	0.035	1.7	ug/L	518	Standard
|	Bi	209	311676.8	0.9				ug/L	295516	Standard
|	Th	232	388499.8	0.5				ug/L	378918	Standard
|	Cr -2	52	5215.6	2.9	**2.0000**	0.068	3.4	ug/L	283	KED
|	Cr -3	53	697.0	3.9	**2.0000**	0.086	4.3	ug/L	38	KED
|	Ni -3	58	6031.3	2.7	**2.0000**	0.056	2.8	ug/L	148	KED
|	Ni -4	60	2579.6	3.4	**2.0000**	0.071	3.5	ug/L	58	KED
|	Ni -5	62	403.7	3.7	**2.0000**	0.070	3.5	ug/L	12	KED
|	Cu -2	63	6753.9	0.5	**2.0000**	0.017	0.8	ug/L	287	KED
|	Cu -3	65	3178.7	3.0	**2.0000**	0.054	2.7	ug/L	136	KED
|	Zn -3	66	751.7	5.1				ug/L	93	KED
|	Zn -4	67	123.3	9.0				ug/L	15	KED
|	Zn -5	68	547.7	5.5				ug/L	68	KED
|	As-2	75	479.0	4.8	**2.0000**	0.096	4.8	ug/L	3	KED
	Y-1	89	65555.7	1.1				ug/L	64897	KED
	Rh-1	103	45475.6	1.2				ug/L	44712	KED
|	Cd -2	111	1361.7	3.1	**2.0863**	0.055	2.6	ug/L	4	KED
|	Cd -3	114	3572.8	2.1	**2.0974**	0.033	1.5	ug/L	8	KED
| >	Sc	45	776062.7	0.6				ug/L	772316	Standard
| >	Ge	72	438778.7	2.6				ug/L	431846	Standard
| >	In	115	421081.7	2.5				ug/L	412957	Standard
| >	Tb	159	570426.3	2.5				ug/L	554761	Standard
| >	Ge-1	72	31025.0	0.4				ug/L	30473	KED
| >	In-1	115	42414.7	0.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, May 31, 2024 13:09:40
Report Date/Time: Friday, May 31, 2024 13:13:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 4.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	132548.8	1.6	**4.8716**	0.117	2.4	ug/L	23728	Standard
|	Cr -1	53	16329.0	2.3	**4.7518**	0.158	3.3	ug/L	4227	Standard
|	Ni	58	47564.4	2.8	**5.0000**	0.074	1.5	ug/L	-9347	Standard
|	Ni -1	60	22247.0	3.3	**4.7389**	0.101	2.1	ug/L	242	Standard
|	Ni -2	62	5004.5	2.6	**4.6723**	0.058	1.2	ug/L	1958	Standard
|	Cu	63	50152.2	1.0	**4.7170**	0.073	1.6	ug/L	2502	Standard
|	Cu -1	65	22688.7	1.6	**4.7462**	0.049	1.0	ug/L	483	Standard
|	Zn	66	12296.6	1.4	**5.0000**	0.072	1.4	ug/L	770	Standard
|	Zn -1	67	2049.1	1.7	**5.0000**	0.213	4.3	ug/L	161	Standard
|	Zn -2	68	8886.4	1.0	**5.0000**	0.061	1.2	ug/L	754	Standard
|	As	75	23028.4	1.4	**5.0711**	0.091	1.8	ug/L	12256	Standard
|	As-1	75	11415.6	1.0	**4.9967**	0.131	2.6	ug/L	25	Standard
|	Se	77	861.0	5.1	**4.9790**	0.291	5.8	ug/L	145	Standard
|	Se -1	78	14204.7	2.2	**5.0000**	0.327	6.5	ug/L	12291	Standard
|	Br	79	267.3	11.0				ug/L	304	Standard
|	Se -2	82	1038.0	3.2	**4.8150**	0.250	5.2	ug/L	42	Standard
	Kr	83	36.3	23.4				ug/L	36	Standard
	Y	89	579986.9	0.7				ug/L	618386	Standard
|	Rh	103	104714.4	0.9				ug/L	111544	Standard
|	Cd	111	14145.7	1.8	**4.8226**	0.109	2.3	ug/L	192	Standard
|	Cd -1	114	35254.5	2.8	**4.7654**	0.005	0.1	ug/L	23	Standard
|	Ho	165	517135.1	2.4				ug/L	521140	Standard
|	Pb	208	174786.8	1.7	**4.8116**	0.133	2.8	ug/L	518	Standard
|	Bi	209	298747.3	2.5				ug/L	295516	Standard
|	Th	232	377487.8	1.2				ug/L	378918	Standard
|	Cr -2	52	11094.6	1.5	**4.7759**	0.022	0.5	ug/L	283	KED
|	Cr -3	53	1379.7	1.6	**4.6071**	0.128	2.8	ug/L	38	KED
|	Ni -3	58	12804.7	2.2	**4.7178**	0.081	1.7	ug/L	148	KED
|	Ni -4	60	5537.4	0.8	**4.7549**	0.083	1.7	ug/L	58	KED
|	Ni -5	62	836.0	1.0	**4.6473**	0.012	0.3	ug/L	12	KED
|	Cu -2	63	14125.6	0.7	**4.6897**	0.087	1.9	ug/L	287	KED
|	Cu -3	65	6578.8	1.3	**4.6547**	0.102	2.2	ug/L	136	KED
|	Zn -3	66	1480.1	2.0	**5.0000**	0.182	3.6	ug/L	93	KED
|	Zn -4	67	258.3	3.7	**5.0000**	0.149	3.0	ug/L	15	KED
|	Zn -5	68	1171.4	4.1	**5.0000**	0.167	3.3	ug/L	68	KED
|	As-2	75	1003.4	1.0	**4.6757**	0.098	2.1	ug/L	3	KED
	Y-1	89	63371.9	0.3				ug/L	64897	KED
	Rh-1	103	43730.8	1.8				ug/L	44712	KED
|	Cd -2	111	2884.3	1.1	**4.7902**	0.115	2.4	ug/L	4	KED
|	Cd -3	114	7585.7	1.0	**4.8164**	0.022	0.5	ug/L	8	KED
| >	Sc	45	732066.9	2.8				ug/L	772316	Standard
| >	Ge	72	421674.8	2.0				ug/L	431846	Standard
| >	In	115	410368.2	2.9				ug/L	412957	Standard
| >	Tb	159	548311.9	2.9				ug/L	554761	Standard
| >	Ge-1	72	29956.7	1.1				ug/L	30473	KED
| >	In-1	115	40721.5	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, May 31, 2024 13:14:31
Report Date/Time: Friday, May 31, 2024 13:17:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 5.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	502835.9	1.1	**19.7265**	0.414	2.1	ug/L	23728	Standard
|	Cr -1	53	58530.0	1.6	**19.3162**	0.251	1.3	ug/L	4227	Standard
|	Ni	58	237061.4	0.5	**20.3952**	0.439	2.2	ug/L	-9347	Standard
|	Ni -1	60	96979.1	1.6	**19.6274**	0.173	0.9	ug/L	242	Standard
|	Ni -2	62	15871.5	0.8	**19.1320**	0.457	2.4	ug/L	1958	Standard
|	Cu	63	213341.0	1.0	**19.5459**	0.393	2.0	ug/L	2502	Standard
|	Cu -1	65	98809.6	1.8	**19.6512**	0.131	0.7	ug/L	483	Standard
|	Zn	66	53635.8	1.4	**20.5907**	0.238	1.2	ug/L	770	Standard
|	Zn -1	67	9060.9	4.3	**20.8872**	0.687	3.3	ug/L	161	Standard
|	Zn -2	68	38156.6	2.4	**20.5687**	0.282	1.4	ug/L	754	Standard
|	As	75	59394.4	2.2	**20.4592**	0.074	0.4	ug/L	12256	Standard
|	As-1	75	48683.3	1.5	**20.0220**	0.168	0.8	ug/L	25	Standard
|	Se	77	3256.4	3.5	**20.2168**	0.311	1.5	ug/L	145	Standard
|	Se -1	78	21825.3	3.0	**19.7225**	0.646	3.3	ug/L	12291	Standard
|	Br	79	346.7	1.2				ug/L	304	Standard
|	Se -2	82	4393.3	1.1	**19.6735**	0.475	2.4	ug/L	42	Standard
	Kr	83	26.3	12.2				ug/L	36	Standard
	Y	89	626919.7	2.9				ug/L	618386	Standard
|	Rh	103	113287.4	0.6				ug/L	111544	Standard
|	Cd	111	61695.3	1.7	**19.9056**	0.061	0.3	ug/L	192	Standard
|	Cd -1	114	155568.7	2.5	**19.7723**	0.165	0.8	ug/L	23	Standard
|	Ho	165	561633.5	1.3				ug/L	521140	Standard
|	Pb	208	772228.9	2.0	**19.8469**	0.176	0.9	ug/L	518	Standard
|	Bi	209	321102.4	2.1				ug/L	295516	Standard
|	Th	232	409989.1	0.6				ug/L	378918	Standard
|	Cr -2	52	47377.1	1.4	**19.7464**	0.389	2.0	ug/L	283	KED
|	Cr -3	53	5853.2	1.7	**19.2636**	0.086	0.4	ug/L	38	KED
|	Ni -3	58	55400.2	0.7	**19.5907**	0.257	1.3	ug/L	148	KED
|	Ni -4	60	24213.2	0.5	**19.8376**	0.252	1.3	ug/L	58	KED
|	Ni -5	62	3583.4	2.0	**19.2629**	0.176	0.9	ug/L	12	KED
|	Cu -2	63	61399.0	0.4	**19.5935**	0.225	1.1	ug/L	287	KED
|	Cu -3	65	28878.2	1.3	**19.5831**	0.071	0.4	ug/L	136	KED
|	Zn -3	66	6603.5	1.3	**20.9549**	0.058	0.3	ug/L	93	KED
|	Zn -4	67	1079.4	0.4	**20.3707**	0.346	1.7	ug/L	15	KED
|	Zn -5	68	4987.5	2.0	**20.4018**	0.093	0.5	ug/L	68	KED
|	As-2	75	4434.7	1.0	**19.6942**	0.242	1.2	ug/L	3	KED
	Y-1	89	67695.4	1.4				ug/L	64897	KED
	Rh-1	103	46534.7	1.0				ug/L	44712	KED
|	Cd -2	111	12601.2	1.0	**19.6641**	0.400	2.0	ug/L	4	KED
|	Cd -3	114	33513.9	0.7	**19.9028**	0.212	1.1	ug/L	8	KED
| >	Sc	45	789764.5	1.9				ug/L	772316	Standard
| >	Ge	72	449825.8	2.4				ug/L	431846	Standard
| >	In	115	440589.3	1.8				ug/L	412957	Standard
| >	Tb	159	592488.6	1.5				ug/L	554761	Standard
| >	Ge-1	72	31773.0	1.6				ug/L	30473	KED
| >	In-1	115	43903.6	1.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, May 31, 2024 13:19:22
Report Date/Time: Friday, May 31, 2024 13:22:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	973098.8	0.8	**40.5190**	0.611	1.5	ug/L	23728	Standard
|	Cr -1	53	112682.1	2.2	**40.0739**	0.205	0.5	ug/L	4227	Standard
|	Ni	58	474679.5	0.9	**40.7642**	0.462	1.1	ug/L	-9347	Standard
|	Ni -1	60	190969.1	1.4	**39.8813**	0.104	0.3	ug/L	242	Standard
|	Ni -2	62	29292.7	0.7	**39.0048**	0.392	1.0	ug/L	1958	Standard
|	Cu	63	420358.0	2.3	**39.8794**	0.289	0.7	ug/L	2502	Standard
|	Cu -1	65	194628.3	2.4	**39.9284**	0.389	1.0	ug/L	483	Standard
|	Zn	66	104696.3	1.6	**40.9462**	0.275	0.7	ug/L	770	Standard
|	Zn -1	67	17368.2	2.8	**40.9369**	0.496	1.2	ug/L	161	Standard
|	Zn -2	68	73664.4	0.8	**40.7296**	0.373	0.9	ug/L	754	Standard
|	As	75	107682.3	2.3	**42.2803**	0.360	0.9	ug/L	12256	Standard
|	As-1	75	97841.7	2.0	**41.0977**	0.148	0.4	ug/L	25	Standard
|	Se	77	6374.8	2.3	**41.2811**	0.423	1.0	ug/L	145	Standard
|	Se -1	78	31771.3	3.3	**41.9137**	1.132	2.7	ug/L	12291	Standard
|	Br	79	334.7	9.6				ug/L	304	Standard
|	Se -2	82	8652.3	3.0	**40.0248**	0.730	1.8	ug/L	42	Standard
	Kr	83	35.0	10.3				ug/L	36	Standard
	Y	89	609247.9	2.5				ug/L	618386	Standard
|	Rh	103	109912.3	1.9				ug/L	111544	Standard
|	Cd	111	123866.9	1.2	**40.8123**	0.225	0.6	ug/L	192	Standard
|	Cd -1	114	314861.7	2.3	**40.8029**	0.477	1.2	ug/L	23	Standard
|	Ho	165	543368.2	1.6				ug/L	521140	Standard
|	Pb	208	1538455.5	1.4	**40.6310**	0.141	0.3	ug/L	518	Standard
|	Bi	209	310064.7	1.1				ug/L	295516	Standard
|	Th	232	387640.9	1.4				ug/L	378918	Standard
|	Cr -2	52	91194.8	0.3	**40.1071**	0.957	2.4	ug/L	283	KED
|	Cr -3	53	11477.3	1.1	**39.9503**	0.739	1.9	ug/L	38	KED
|	Ni -3	58	107779.0	0.9	**40.1167**	0.619	1.5	ug/L	148	KED
|	Ni -4	60	46844.0	0.5	**40.3212**	0.644	1.6	ug/L	58	KED
|	Ni -5	62	6940.0	1.5	**39.5123**	0.695	1.8	ug/L	12	KED
|	Cu -2	63	117233.5	1.7	**39.6030**	0.305	0.8	ug/L	287	KED
|	Cu -3	65	55061.6	2.7	**39.5361**	0.718	1.8	ug/L	136	KED
|	Zn -3	66	12584.2	2.2	**41.3368**	0.180	0.4	ug/L	93	KED
|	Zn -4	67	2113.8	4.8	**41.3011**	1.400	3.4	ug/L	15	KED
|	Zn -5	68	9391.8	1.4	**40.4173**	0.295	0.7	ug/L	68	KED
|	As-2	75	8528.2	1.7	**39.9274**	1.094	2.7	ug/L	3	KED
	Y-1	89	64526.4	0.9				ug/L	64897	KED
	Rh-1	103	43718.5	1.2				ug/L	44712	KED
|	Cd -2	111	24881.3	0.5	**40.2917**	0.621	1.5	ug/L	4	KED
|	Cd -3	114	65823.3	1.2	**40.5029**	0.840	2.1	ug/L	8	KED
| >	Sc	45	758254.2	2.1				ug/L	772316	Standard
| >	Ge	72	436543.7	1.6				ug/L	431846	Standard
| >	In	115	429524.0	1.5				ug/L	412957	Standard
| >	Tb	159	574108.1	1.7				ug/L	554761	Standard
| >	Ge-1	72	30172.5	2.1				ug/L	30473	KED
| >	In-1	115	42236.7	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, May 31, 2024 13:24:12
Report Date/Time: Friday, May 31, 2024 13:27:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	2170122.5	0.9	**103.0943**	2.388	2.3	ug/L	23728	Standard
|	Cr -1	53	234016.4	2.7	**97.1851**	0.705	0.7	ug/L	4227	Standard
|	Ni	58	1027503.6	1.5	**96.4903**	1.802	1.9	ug/L	-9347	Standard
|	Ni -1	60	408125.1	3.4	**94.1465**	1.917	2.0	ug/L	242	Standard
|	Ni -2	62	60411.8	0.9	**92.4780**	2.463	2.7	ug/L	1958	Standard
|	Cu	63	890063.0	2.4	**93.6304**	1.263	1.3	ug/L	2502	Standard
|	Cu -1	65	412809.8	1.3	**93.7208**	1.970	2.1	ug/L	483	Standard
|	Zn	66	219679.5	2.4	**95.5899**	1.651	1.7	ug/L	770	Standard
|	Zn -1	67	37386.2	3.9	**97.3935**	1.173	1.2	ug/L	161	Standard
|	Zn -2	68	159741.3	1.8	**97.5183**	1.493	1.5	ug/L	754	Standard
|	As	75	226327.4	2.4	**102.8721**	0.785	0.8	ug/L	12256	Standard
|	As-1	75	219442.3	2.9	**100.0248**	0.183	0.2	ug/L	25	Standard
|	Se	77	14036.6	3.7	**100.0331**	1.103	1.1	ug/L	145	Standard
|	Se -1	78	55660.9	2.1	**102.5762**	1.568	1.5	ug/L	12291	Standard
|	Br	79	329.3	6.4				ug/L	304	Standard
|	Se -2	82	19221.3	4.0	**97.4041**	1.137	1.2	ug/L	42	Standard
	Kr	83	26.7	2.2				ug/L	36	Standard
	Y	89	564096.8	5.0				ug/L	618386	Standard
|	Rh	103	100882.8	3.0				ug/L	111544	Standard
|	Cd	111	265131.8	2.1	**97.0118**	0.583	0.6	ug/L	192	Standard
|	Cd -1	114	679955.3	3.7	**97.6156**	2.412	2.5	ug/L	23	Standard
|	Ho	165	490616.6	1.2				ug/L	521140	Standard
|	Pb	208	3351959.0	2.0	**97.3246**	1.121	1.2	ug/L	518	Standard
|	Bi	209	284006.9	2.2				ug/L	295516	Standard
|	Th	232	346071.2	2.7				ug/L	378918	Standard
|	Cr -2	52	187346.1	0.5	**96.1111**	0.421	0.4	ug/L	283	KED
|	Cr -3	53	23289.0	0.3	**94.9348**	0.877	0.9	ug/L	38	KED
|	Ni -3	58	220282.7	0.5	**95.6634**	0.696	0.7	ug/L	148	KED
|	Ni -4	60	96559.6	0.8	**96.6856**	0.917	0.9	ug/L	58	KED
|	Ni -5	62	14273.5	1.0	**94.9951**	1.423	1.5	ug/L	12	KED
|	Cu -2	63	241456.8	0.3	**95.3045**	0.655	0.7	ug/L	287	KED
|	Cu -3	65	113798.1	0.7	**95.4174**	0.750	0.8	ug/L	136	KED
|	Zn -3	66	26015.7	0.3	**99.2403**	0.866	0.9	ug/L	93	KED
|	Zn -4	67	4312.0	2.0	**98.2719**	1.868	1.9	ug/L	15	KED
|	Zn -5	68	19750.0	1.3	**98.8017**	0.751	0.8	ug/L	68	KED
|	As-2	75	17953.3	0.9	**97.4856**	0.830	0.9	ug/L	3	KED
	Y-1	89	57187.6	1.4				ug/L	64897	KED
	Rh-1	103	38448.0	1.3				ug/L	44712	KED
|	Cd -2	111	52538.5	1.6	**95.8885**	1.924	2.0	ug/L	4	KED
|	Cd -3	114	138227.6	1.1	**95.8696**	1.428	1.5	ug/L	8	KED
| >	Sc	45	667919.2	3.1				ug/L	772316	Standard
| >	Ge	72	402390.5	3.1				ug/L	431846	Standard
| >	In	115	390145.1	1.5				ug/L	412957	Standard
| >	Tb	159	526075.5	2.8				ug/L	554761	Standard
| >	Ge-1	72	26211.7	0.7				ug/L	30473	KED
| >	In-1	115	37878.6	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 31, 2024 13:29:53
Report Date/Time: Friday, May 31, 2024 13:33:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 1.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Cr**	52	1111789.8	1.6	**49.3350**	0.098	0.2	ug/L	23728	Standard
|	**Cr -1**	53	129098.0	2.9	**49.9221**	0.621	1.2	ug/L	4227	Standard
|	**Ni**	58	549047.3	3.6	**49.3625**	1.291	2.6	ug/L	-9347	Standard
|	**Ni -1**	60	220656.7	2.9	**48.4386**	0.987	2.0	ug/L	242	Standard
|	**Ni -2**	62	33167.8	2.2	**47.0841**	0.654	1.4	ug/L	1958	Standard
|	**Cu**	63	481105.5	2.8	**48.0836**	0.907	1.9	ug/L	2502	Standard
|	**Cu -1**	65	221956.6	1.7	**47.9344**	0.158	0.3	ug/L	483	Standard
|	**Zn**	66	119700.6	2.4	**49.4022**	0.600	1.2	ug/L	770	Standard
|	**Zn -1**	67	20137.2	2.8	**49.7093**	0.737	1.5	ug/L	161	Standard
|	**Zn -2**	68	86427.3	1.0	**50.0105**	0.230	0.5	ug/L	754	Standard
|	**As**	75	127855.0	0.5	**52.6879**	0.596	1.1	ug/L	12256	Standard
|	**As-1**	75	117556.7	0.8	**51.0028**	0.447	0.9	ug/L	25	Standard
|	**Se**	77	7789.8	2.9	**52.3608**	1.046	2.0	ug/L	145	Standard
|	**Se -1**	78	36686.0	0.6	**54.4927**	0.649	1.2	ug/L	12291	Standard
|	**Br**	79	340.0	3.0				ug/L	304	Standard
|	**Se -2**	82	10408.5	1.7	**50.1559**	0.342	0.7	ug/L	42	Standard
	Kr	83	33.3	22.7				ug/L	36	Standard
	Y	89	604477.6	2.3				ug/L	618386	Standard
|	**Rh**	103	107111.5	2.0				ug/L	111544	Standard
|	**Cd**	111	145809.7	3.5	**50.1031**	0.923	1.8	ug/L	192	Standard
|	**Cd -1**	114	376144.7	3.3	**50.7552**	1.136	2.2	ug/L	23	Standard
|	**Ho**	165	525870.2	2.9				ug/L	521140	Standard
|	**Pb**	208	1824641.2	1.9	**50.0348**	0.219	0.4	ug/L	518	Standard
|	**Bi**	209	296693.4	1.5				ug/L	295516	Standard
|	**Th**	232	375923.0	2.6				ug/L	378918	Standard
|	**Cr -2**	52	102945.6	0.1	**49.0663**	0.205	0.4	ug/L	283	KED
|	**Cr -3**	53	12770.7	1.3	**48.3526**	0.571	1.2	ug/L	38	KED
|	**Ni -3**	58	120217.9	1.2	**48.5474**	0.694	1.4	ug/L	148	KED
|	**Ni -4**	60	52093.1	1.0	**48.4984**	0.541	1.1	ug/L	58	KED
|	**Ni -5**	62	7774.1	2.1	**48.1147**	0.971	2.0	ug/L	12	KED
|	**Cu -2**	63	132551.2	1.8	**48.6430**	0.961	2.0	ug/L	287	KED
|	**Cu -3**	65	62473.7	1.3	**48.7130**	0.763	1.6	ug/L	136	KED
|	**Zn -3**	66	14244.4	0.8	**50.3617**	0.414	0.8	ug/L	93	KED
|	**Zn -4**	67	2417.2	0.9	**51.0751**	0.477	0.9	ug/L	15	KED
|	**Zn -5**	68	10938.2	1.2	**50.7560**	0.407	0.8	ug/L	68	KED
|	**As-2**	75	9822.7	1.0	**49.6119**	0.714	1.4	ug/L	3	KED
	Y-1	89	61167.0	1.0				ug/L	64897	KED
	Rh-1	103	41267.2	0.7				ug/L	44712	KED
|	**Cd -2**	111	28797.7	0.8	**49.6713**	0.344	0.7	ug/L	4	KED
|	**Cd -3**	114	75731.5	0.9	**49.6381**	0.585	1.2	ug/L	8	KED
| >	**Sc**	45	707717.2	1.7				ug/L	772316	Standard
| >	**Ge**	72	422696.5	1.4				ug/L	431846	Standard
| >	**In**	115	415026.2	1.9				ug/L	412957	Standard
| >	**Tb**	159	556716.8	1.6				ug/L	554761	Standard
| >	**Ge-1**	72	28177.4	0.4				ug/L	30473	KED
| >	**In-1**	115	40065.2	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	98.670	
|	Cr -1	53	99.844	
|	Ni	58	98.725	
|	Ni -1	60	96.877	
|	Ni -2	62	94.168	
|	Cu	63	96.167	
|	Cu -1	65	95.869	
|	Zn	66	98.804	
|	Zn -1	67	99.419	
|	Zn -2	68	100.021	
|	As	75	105.376	
|	As-1	75	102.006	
|	Se	77	104.722	
|	Se -1	78	108.985	
|	Br	79		
|	Se -2	82	100.312	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	100.206	
|	Cd -1	114	101.510	
|	Ho	165		
|	Pb	208	100.070	
|	Bi	209		
|	Th	232		
|	Cr -2	52	98.133	
|	Cr -3	53	96.705	
|	Ni -3	58	97.095	
|	Ni -4	60	96.997	
|	Ni -5	62	96.229	
|	Cu -2	63	97.286	
|	Cu -3	65	97.426	
|	Zn -3	66	100.723	
|	Zn -4	67	102.150	
|	Zn -5	68	101.512	
|	As-2	75	99.224	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	99.343	
|	Cd -3	114	99.276	
| >	Sc	45		91.636
| >	Ge	72		97.881
| >	In	115		100.501
| >	Tb	159		100.353
| >	Ge-1	72		92.465
| >	In-1	115		94.425

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 31, 2024 13:35:34
Report Date/Time: Friday, May 31, 2024 13:38:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 2.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18836.1	0.5	**-0.1230**	0.011	9.0	ug/L	23728	Standard
|	Cr -1	53	3251.0	1.9	**-0.1355**	0.041	30.6	ug/L	4227	Standard
|	Ni	58	-6088.5	3.5	**0.0803**	0.014	17.8	ug/L	-9347	Standard
|	Ni -1	60	234.7	4.9	**0.0308**	0.004	12.2	ug/L	242	Standard
|	Ni -2	62	2553.9	0.3	**1.2415**	0.079	6.3	ug/L	1958	Standard
|	Cu	63	2892.3	1.4	**0.1188**	0.007	5.7	ug/L	2502	Standard
|	Cu -1	65	511.7	5.0	**0.0786**	0.004	4.7	ug/L	483	Standard
|	Zn	66	763.0	4.4	**-0.0303**	0.007	22.3	ug/L	770	Standard
|	Zn -1	67	155.3	8.5	**-0.0874**	0.037	42.4	ug/L	161	Standard
|	Zn -2	68	788.4	3.3	**0.0358**	0.013	36.0	ug/L	754	Standard
|	As	75	12429.4	2.4	**-0.0494**	0.023	47.4	ug/L	12256	Standard
|	As-1	75	23.9	176.5	**-0.0071**	0.019	260.4	ug/L	25	Standard
|	Se	77	134.7	2.6	**-0.1163**	0.016	13.5	ug/L	145	Standard
|	Se -1	78	12477.4	2.8	**0.9229**	0.193	20.9	ug/L	12291	Standard
|	Br	79	337.0	3.1				ug/L	304	Standard
|	Se -2	82	46.7	16.1	**0.0923**	0.035	37.8	ug/L	42	Standard
	Kr	83	33.3	13.9				ug/L	36	Standard
	Y	89	602295.5	2.4				ug/L	618386	Standard
|	Rh	103	106851.9	2.0				ug/L	111544	Standard
|	Cd	111	215.4	7.0	**-0.0170**	0.005	27.4	ug/L	192	Standard
|	Cd -1	114	49.0	16.0	**-0.0199**	0.001	5.7	ug/L	23	Standard
|	Ho	165	515302.2	2.8				ug/L	521140	Standard
|	Pb	208	752.3	10.1	**-0.0157**	0.003	16.3	ug/L	518	Standard
|	Bi	209	299269.2	0.5				ug/L	295516	Standard
|	Th	232	373872.0	1.3				ug/L	378918	Standard
|	Cr -2	52	271.3	6.2	**-0.0014**	0.009	608.4	ug/L	283	KED
|	Cr -3	53	33.7	22.3	**-0.0238**	0.029	121.0	ug/L	38	KED
|	Ni -3	58	135.4	6.4	**0.0158**	0.003	17.0	ug/L	148	KED
|	Ni -4	60	52.3	14.5	**0.0002**	0.007	3493.1	ug/L	58	KED
|	Ni -5	62	7.7	49.4	**0.0205**	0.023	112.1	ug/L	12	KED
|	Cu -2	63	296.0	6.4	**0.0523**	0.008	15.3	ug/L	287	KED
|	Cu -3	65	140.0	6.3	**0.0723**	0.005	7.3	ug/L	136	KED
|	Zn -3	66	92.3	8.1	**-0.0580**	0.022	37.4	ug/L	93	KED
|	Zn -4	67	16.0	38.0	**-0.0313**	0.119	380.6	ug/L	15	KED
|	Zn -5	68	63.3	22.4	**-0.0176**	0.060	342.3	ug/L	68	KED
|	As-2	75	6.0	44.1	**0.0177**	0.013	72.6	ug/L	3	KED
	Y-1	89	63229.3	1.2				ug/L	64897	KED
	Rh-1	103	42842.5	1.4				ug/L	44712	KED
|	Cd -2	111	5.3	10.8	**-0.0258**	0.001	4.1	ug/L	4	KED
|	Cd -3	114	8.7	52.0	**-0.0346**	0.003	8.2	ug/L	8	KED
| >	Sc	45	731492.5	1.6				ug/L	772316	Standard
| >	Ge	72	425041.3	2.3				ug/L	431846	Standard
| >	In	115	415848.9	1.2				ug/L	412957	Standard
| >	Tb	159	546517.6	2.0				ug/L	554761	Standard
| >	Ge-1	72	29365.5	1.3				ug/L	30473	KED
| >	In-1	115	41144.9	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		94.714
| >	Ge	72		98.424
| >	In	115		100.700
| >	Tb	159		98.514
| >	Ge-1	72		96.364
| >	In-1	115		96.969

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 31, 2024 13:40:27
Report Date/Time: Friday, May 31, 2024 13:43:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 6.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	946056.6	2.6	**40.0659**	0.614	1.5	ug/L	23728	Standard
|	Cr -1	53	110268.1	2.5	**40.6275**	0.423	1.0	ug/L	4227	Standard
|	Ni	58	464453.9	3.3	**41.4926**	0.699	1.7	ug/L	-9347	Standard
|	Ni -1	60	186019.0	2.2	**40.4789**	0.333	0.8	ug/L	242	Standard
|	Ni -2	62	28800.4	3.1	**40.1681**	0.586	1.5	ug/L	1958	Standard
|	Cu	63	411146.3	2.5	**40.7120**	0.703	1.7	ug/L	2502	Standard
|	Cu -1	65	186640.4	2.3	**39.9573**	0.924	2.3	ug/L	483	Standard
|	Zn	66	103165.0	2.9	**42.1608**	0.921	2.2	ug/L	770	Standard
|	Zn -1	67	17072.2	2.1	**41.7091**	0.696	1.7	ug/L	161	Standard
|	Zn -2	68	71991.7	2.1	**41.2220**	0.615	1.5	ug/L	754	Standard
|	As	75	104748.9	2.0	**41.7185**	0.563	1.3	ug/L	12256	Standard
|	As-1	75	95002.8	1.6	**40.8561**	0.450	1.1	ug/L	25	Standard
|	Se	77	6390.1	2.2	**42.3898**	0.476	1.1	ug/L	145	Standard
|	Se -1	78	31051.4	2.2	**41.4591**	0.648	1.6	ug/L	12291	Standard
|	Br	79	331.3	6.4				ug/L	304	Standard
|	Se -2	82	8405.8	0.2	**40.1357**	0.600	1.5	ug/L	42	Standard
	Kr	83	29.3	19.4				ug/L	36	Standard
	Y	89	596860.2	1.0				ug/L	618386	Standard
|	Rh	103	106334.7	2.1				ug/L	111544	Standard
|	Cd	111	121452.4	3.2	**41.1581**	0.451	1.1	ug/L	192	Standard
|	Cd -1	114	308755.1	1.4	**41.1097**	0.855	2.1	ug/L	23	Standard
|	Ho	165	525425.8	3.0				ug/L	521140	Standard
|	Pb	208	1477194.8	2.1	**40.5950**	0.457	1.1	ug/L	518	Standard
|	Bi	209	292148.5	1.5				ug/L	295516	Standard
|	Th	232	372933.9	2.0				ug/L	378918	Standard
|	Cr -2	52	91380.7	1.7	**41.1413**	0.223	0.5	ug/L	283	KED
|	Cr -3	53	11441.2	0.3	**40.9217**	0.378	0.9	ug/L	38	KED
|	Ni -3	58	106953.8	0.2	**40.8173**	0.498	1.2	ug/L	148	KED
|	Ni -4	60	46670.4	1.1	**41.0575**	0.065	0.2	ug/L	58	KED
|	Ni -5	62	6904.0	1.5	**40.3792**	0.171	0.4	ug/L	12	KED
|	Cu -2	63	116092.2	1.0	**40.2566**	0.454	1.1	ug/L	287	KED
|	Cu -3	65	54865.5	0.7	**40.4275**	0.250	0.6	ug/L	136	KED
|	Zn -3	66	12545.5	0.4	**41.8604**	0.344	0.8	ug/L	93	KED
|	Zn -4	67	2087.5	0.8	**41.6270**	0.782	1.9	ug/L	15	KED
|	Zn -5	68	9410.1	0.9	**41.2147**	0.268	0.7	ug/L	68	KED
|	As-2	75	8559.9	2.2	**40.8546**	0.513	1.3	ug/L	3	KED
	Y-1	89	63704.1	1.3				ug/L	64897	KED
	Rh-1	103	43545.6	1.0				ug/L	44712	KED
|	Cd -2	111	24861.0	1.5	**41.3327**	0.090	0.2	ug/L	4	KED
|	Cd -3	114	65331.0	0.5	**41.2771**	0.440	1.1	ug/L	8	KED
| >	Sc	45	738249.6	1.5				ug/L	772316	Standard
| >	Ge	72	426394.7	1.7				ug/L	431846	Standard
| >	In	115	420790.5	3.6				ug/L	412957	Standard
| >	Tb	159	555490.1	2.6				ug/L	554761	Standard
| >	Ge-1	72	29813.7	1.1				ug/L	30473	KED
| >	In-1	115	41559.8	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	100.165	
|	Cr -1	53	101.569	
|	Ni	58	103.731	
|	Ni -1	60	101.197	
|	Ni -2	62	100.420	
|	Cu	63	101.780	
|	Cu -1	65	99.893	
|	Zn	66	105.402	
|	Zn -1	67	104.273	
|	Zn -2	68	103.055	
|	As	75	104.296	
|	As-1	75	102.140	
|	Se	77	105.975	
|	Se -1	78	103.648	
|	Br	79		
|	Se -2	82	100.339	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	102.895	
|	Cd -1	114	102.774	
|	Ho	165		
|	Pb	208	101.487	
|	Bi	209		
|	Th	232		
|	Cr -2	52	102.853	
|	Cr -3	53	102.304	
|	Ni -3	58	102.043	
|	Ni -4	60	102.644	
|	Ni -5	62	100.948	
|	Cu -2	63	100.642	
|	Cu -3	65	101.069	
|	Zn -3	66	104.651	
|	Zn -4	67	104.067	
|	Zn -5	68	103.037	
|	As-2	75	102.137	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	103.332	
|	Cd -3	114	103.193	
| >	Sc	45		95.589
| >	Ge	72		98.738
| >	In	115		101.897
| >	Tb	159		100.131
| >	Ge-1	72		97.835
| >	In-1	115		97.947

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 31, 2024 13:46:08
Report Date/Time: Friday, May 31, 2024 13:49:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 7.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	478473.9	1.2	**19.4865**	0.317	1.6	ug/L	23728	Standard
|	Cr -1	53	55724.1	1.3	**19.5291**	0.284	1.5	ug/L	4227	Standard
|	Ni	58	227138.6	1.4	**20.2012**	0.130	0.6	ug/L	-9347	Standard
|	Ni -1	60	93060.9	2.1	**19.8240**	0.033	0.2	ug/L	242	Standard
|	Ni -2	62	15845.8	2.8	**20.4660**	0.272	1.3	ug/L	1958	Standard
|	Cu	63	203386.3	2.7	**19.6360**	0.154	0.8	ug/L	2502	Standard
|	Cu -1	65	94616.5	2.8	**19.8202**	0.249	1.3	ug/L	483	Standard
|	Zn	66	51519.7	1.4	**20.4471**	0.170	0.8	ug/L	770	Standard
|	Zn -1	67	8776.7	2.2	**20.7656**	0.209	1.0	ug/L	161	Standard
|	Zn -2	68	37222.8	0.5	**20.6704**	0.311	1.5	ug/L	754	Standard
|	As	75	57608.8	2.2	**19.8446**	0.124	0.6	ug/L	12256	Standard
|	As-1	75	47004.9	2.5	**19.7871**	0.098	0.5	ug/L	25	Standard
|	Se	77	3142.0	2.5	**19.8772**	0.173	0.9	ug/L	145	Standard
|	Se -1	78	21386.7	1.6	**19.3645**	0.511	2.6	ug/L	12291	Standard
|	Br	79	353.0	6.7				ug/L	304	Standard
|	Se -2	82	4262.6	1.9	**19.8646**	0.009	0.0	ug/L	42	Standard
	Kr	83	36.7	20.1				ug/L	36	Standard
	Y	89	610158.5	3.0				ug/L	618386	Standard
|	Rh	103	109790.7	2.0				ug/L	111544	Standard
|	Cd	111	59851.3	2.4	**19.5872**	0.279	1.4	ug/L	192	Standard
|	Cd -1	114	152420.0	2.8	**19.6228**	0.210	1.1	ug/L	23	Standard
|	Ho	165	533311.7	1.8				ug/L	521140	Standard
|	Pb	208	729252.6	1.2	**19.6559**	0.330	1.7	ug/L	518	Standard
|	Bi	209	299658.6	0.6				ug/L	295516	Standard
|	Th	232	379332.1	1.2				ug/L	378918	Standard
|	Cr -2	52	45446.5	1.0	**20.0925**	0.100	0.5	ug/L	283	KED
|	Cr -3	53	5568.1	0.9	**19.5411**	0.159	0.8	ug/L	38	KED
|	Ni -3	58	52720.5	2.1	**19.7987**	0.315	1.6	ug/L	148	KED
|	Ni -4	60	23040.6	1.3	**19.9433**	0.153	0.8	ug/L	58	KED
|	Ni -5	62	3380.4	1.6	**19.4632**	0.214	1.1	ug/L	12	KED
|	Cu -2	63	57914.8	1.8	**19.7557**	0.265	1.3	ug/L	287	KED
|	Cu -3	65	27032.2	1.1	**19.6043**	0.114	0.6	ug/L	136	KED
|	Zn -3	66	6279.4	2.8	**20.4487**	0.516	2.5	ug/L	93	KED
|	Zn -4	67	1076.0	4.9	**20.9563**	0.930	4.4	ug/L	15	KED
|	Zn -5	68	4729.1	2.3	**20.2511**	0.416	2.1	ug/L	68	KED
|	As-2	75	4137.9	3.4	**19.4491**	0.579	3.0	ug/L	3	KED
	Y-1	89	65109.1	1.7				ug/L	64897	KED
	Rh-1	103	44475.5	0.4				ug/L	44712	KED
|	Cd -2	111	12272.3	2.5	**19.7778**	0.183	0.9	ug/L	4	KED
|	Cd -3	114	32582.8	1.8	**19.9523**	0.116	0.6	ug/L	8	KED
| >	Sc	45	749672.0	2.7				ug/L	772316	Standard
| >	Ge	72	435353.7	2.0				ug/L	431846	Standard
| >	In	115	434614.2	1.8				ug/L	412957	Standard
| >	Tb	159	565940.9	2.9				ug/L	554761	Standard
| >	Ge-1	72	30264.4	0.5				ug/L	30473	KED
| >	In-1	115	42831.5	1.6				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	97.433	
|	Cr -1	53	97.645	
|	Ni	58	101.006	
|	Ni -1	60	99.120	
|	Ni -2	62	102.330	
|	Cu	63	98.180	
|	Cu -1	65	99.101	
|	Zn	66	102.235	
|	Zn -1	67	103.828	
|	Zn -2	68	103.352	
|	As	75	99.223	
|	As-1	75	98.936	
|	Se	77	99.386	
|	Se -1	78	96.822	
|	Br	79		
|	Se -2	82	99.323	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	97.936	
|	Cd -1	114	98.114	
|	Ho	165		
|	Pb	208	98.279	
|	Bi	209		
|	Th	232		
|	Cr -2	52	100.463	
|	Cr -3	53	97.706	
|	Ni -3	58	98.994	
|	Ni -4	60	99.717	
|	Ni -5	62	97.316	
|	Cu -2	63	98.778	
|	Cu -3	65	98.022	
|	Zn -3	66	102.244	
|	Zn -4	67	104.782	
|	Zn -5	68	101.255	
|	As-2	75	97.246	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	98.889	
|	Cd -3	114	99.762	
| >	Sc	45		97.068
| >	Ge	72		100.812
| >	In	115		105.245
| >	Tb	159		102.015
| >	Ge-1	72		99.314
| >	In-1	115		100.944

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, May 31, 2024 13:51:49
Report Date/Time: Friday, May 31, 2024 13:55:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 8.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18439.2	0.6	**-0.1252**	0.006	5.1	ug/L	23728	Standard
|	Cr -1	53	2829.3	2.1	**-0.2774**	0.030	10.9	ug/L	4227	Standard
|	Ni	58	-5946.3	0.8	**0.0885**	0.019	21.0	ug/L	-9347	Standard
|	Ni -1	60	229.3	4.4	**0.0299**	0.002	6.4	ug/L	242	Standard
|	Ni -2	62	2275.5	1.3	**0.8528**	0.067	7.9	ug/L	1958	Standard
|	Cu	63	2674.3	1.8	**0.0991**	0.003	3.1	ug/L	2502	Standard
|	Cu -1	65	458.3	6.1	**0.0678**	0.004	6.1	ug/L	483	Standard
|	Zn	66	714.0	3.3	**-0.0481**	0.010	19.8	ug/L	770	Standard
|	Zn -1	67	136.7	3.0	**-0.1311**	0.020	15.1	ug/L	161	Standard
|	Zn -2	68	751.4	0.3	**0.0179**	0.014	80.4	ug/L	754	Standard
|	As	75	12470.2	1.5	**0.0136**	0.081	596.3	ug/L	12256	Standard
|	As-1	75	5.5	1186.4	**-0.0159**	0.029	181.0	ug/L	25	Standard
|	Se	77	128.3	12.2	**-0.1504**	0.135	89.6	ug/L	145	Standard
|	Se -1	78	12519.5	1.3	**1.2337**	0.454	36.8	ug/L	12291	Standard
|	Br	79	327.3	0.8				ug/L	304	Standard
|	Se -2	82	40.0	39.1	**0.0604**	0.071	117.9	ug/L	42	Standard
	Kr	83	30.3	21.2				ug/L	36	Standard
	Y	89	597709.9	3.3				ug/L	618386	Standard
|	Rh	103	106793.7	1.5				ug/L	111544	Standard
|	Cd	111	217.7	5.9	**-0.0155**	0.004	25.7	ug/L	192	Standard
|	Cd -1	114	24.5	73.7	**-0.0232**	0.002	10.5	ug/L	23	Standard
|	Ho	165	511457.1	2.5				ug/L	521140	Standard
|	Pb	208	638.7	3.0	**-0.0190**	0.001	5.1	ug/L	518	Standard
|	Bi	209	293502.1	1.5				ug/L	295516	Standard
|	Th	232	361471.1	1.6				ug/L	378918	Standard
|	Cr -2	52	272.7	2.2	**0.0035**	0.002	52.7	ug/L	283	KED
|	Cr -3	53	35.7	26.5	**-0.0120**	0.036	298.3	ug/L	38	KED
|	Ni -3	58	116.1	6.4	**0.0100**	0.003	25.7	ug/L	148	KED
|	Ni -4	60	53.0	10.5	**0.0025**	0.005	205.6	ug/L	58	KED
|	Ni -5	62	8.0	33.1	**0.0240**	0.016	66.6	ug/L	12	KED
|	Cu -2	63	270.3	7.2	**0.0466**	0.007	15.4	ug/L	287	KED
|	Cu -3	65	124.3	11.0	**0.0639**	0.010	15.8	ug/L	136	KED
|	Zn -3	66	98.3	12.9	**-0.0254**	0.043	171.0	ug/L	93	KED
|	Zn -4	67	16.0	31.3	**-0.0192**	0.103	539.1	ug/L	15	KED
|	Zn -5	68	66.0	16.7	**0.0053**	0.051	958.3	ug/L	68	KED
|	As-2	75	4.0	75.0	**0.0088**	0.015	173.7	ug/L	3	KED
	Y-1	89	61941.7	0.7				ug/L	64897	KED
	Rh-1	103	41827.5	0.8				ug/L	44712	KED
|	Cd -2	111	6.0	44.1	**-0.0246**	0.004	17.9	ug/L	4	KED
|	Cd -3	114	9.0	48.4	**-0.0343**	0.003	8.3	ug/L	8	KED
|>	Sc	45	717923.4	1.1				ug/L	772316	Standard
|>	Ge	72	421841.7	2.9				ug/L	431846	Standard
|>	In	115	412205.5	0.6				ug/L	412957	Standard
|>	Tb	159	549084.3	2.5				ug/L	554761	Standard
|>	Ge-1	72	28356.1	0.9				ug/L	30473	KED
|>	In-1	115	40793.6	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.957
| >	Ge	72		97.683
| >	In	115		99.818
| >	Tb	159		98.977
| >	Ge-1	72		93.052
| >	In-1	115		96.141

Quantitative Analysis - Summary Report

Sample ID: MB0529WM1 2X

Sample Date/Time: Friday, May 31, 2024 13:56:40
Report Date/Time: Friday, May 31, 2024 14:00:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\MB0529WM1 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18059.4	2.7	**-0.1119**	0.019	16.7	ug/L	23728	Standard
|	Cr -1	53	2677.9	1.5	**-0.2973**	0.022	7.4	ug/L	4227	Standard
|	Ni	58	-5645.0	2.3	**0.1176**	0.022	18.3	ug/L	-9347	Standard
|	Ni -1	60	164.7	9.9	**0.0156**	0.005	29.2	ug/L	242	Standard
|	Ni -2	62	2074.5	1.5	**0.5382**	0.116	21.6	ug/L	1958	Standard
|	Cu	63	2782.6	1.0	**0.1088**	0.005	4.2	ug/L	2502	Standard
|	Cu -1	65	596.0	6.3	**0.0971**	0.007	6.9	ug/L	483	Standard
|	Zn	66	615.7	4.9	**-0.0900**	0.018	20.4	ug/L	770	Standard
|	Zn -1	67	126.3	7.8	**-0.1582**	0.031	19.9	ug/L	161	Standard
|	Zn -2	68	658.3	4.4	**-0.0384**	0.017	44.1	ug/L	754	Standard
|	As	75	12852.7	1.8	**0.1618**	0.062	38.3	ug/L	12256	Standard
|	As-1	75	-43.8	65.3	**-0.0367**	0.012	34.0	ug/L	25	Standard
|	Se	77	109.3	9.3	**-0.2865**	0.071	24.6	ug/L	145	Standard
|	Se -1	78	12952.2	1.8	**2.0596**	0.360	17.5	ug/L	12291	Standard
|	Br	79	366.3	3.4				ug/L	304	Standard
|	Se -2	82	41.0	10.6	**0.0662**	0.025	38.3	ug/L	42	Standard
	Kr	83	27.7	5.5				ug/L	36	Standard
	Y	89	583225.8	1.1				ug/L	618386	Standard
|	Rh	103	103273.4	2.2				ug/L	111544	Standard
|	Cd	111	207.9	10.0	**-0.0176**	0.005	30.9	ug/L	192	Standard
|	Cd -1	114	29.9	39.6	**-0.0223**	0.002	7.9	ug/L	23	Standard
|	Ho	165	513299.8	2.8				ug/L	521140	Standard
|	Pb	208	1090.0	1.9	**-0.0059**	0.001	13.6	ug/L	518	Standard
|	Bi	209	288780.3	0.7				ug/L	295516	Standard
|	Th	232	355178.3	2.6				ug/L	378918	Standard
|	Cr -2	52	287.7	3.9	**0.0131**	0.006	42.4	ug/L	283	KED
|	Cr -3	53	40.0	13.9	**0.0069**	0.021	305.5	ug/L	38	KED
|	Ni -3	58	99.2	14.0	**0.0039**	0.006	145.4	ug/L	148	KED
|	Ni -4	60	41.3	22.0	**-0.0076**	0.009	115.7	ug/L	58	KED
|	Ni -5	62	6.7	56.8	**0.0165**	0.024	142.8	ug/L	12	KED
|	Cu -2	63	342.3	4.3	**0.0750**	0.005	7.0	ug/L	287	KED
|	Cu -3	65	159.3	8.4	**0.0933**	0.010	10.7	ug/L	136	KED
|	Zn -3	66	75.0	7.1	**-0.1031**	0.021	20.8	ug/L	93	KED
|	Zn -4	67	16.0	12.5	**-0.0127**	0.042	330.2	ug/L	15	KED
|	Zn -5	68	45.3	2.5	**-0.0868**	0.006	7.1	ug/L	68	KED
|	As-2	75	2.3	65.5	**0.0005**	0.008	1478.7	ug/L	3	KED
	Y-1	89	61066.6	0.8				ug/L	64897	KED
	Rh-1	103	40816.2	1.1				ug/L	44712	KED
|	Cd -2	111	4.0	43.3	**-0.0278**	0.003	10.9	ug/L	4	KED
|	Cd -3	114	11.7	9.9	**-0.0325**	0.001	2.6	ug/L	8	KED
|>	Sc	45	691877.3	0.7				ug/L	772316	Standard
|>	Ge	72	423724.2	2.6				ug/L	431846	Standard
|>	In	115	404307.8	2.8				ug/L	412957	Standard
|>	Tb	159	539757.3	0.9				ug/L	554761	Standard
|>	Ge-1	72	27863.1	0.9				ug/L	30473	KED
|>	In-1	115	40042.3	1.2				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		89.585
| >	Ge	72		98.119
| >	In	115		97.906
| >	Tb	159		97.296
| >	Ge-1	72		91.434
| >	In-1	115		94.371

Quantitative Analysis - Summary Report

Sample ID: SB0529WM1 2X

Sample Date/Time: Friday, May 31, 2024 14:02:20
Report Date/Time: Friday, May 31, 2024 14:05:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\SB0529WM1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1047146.2	1.4	**46.0167**	0.198	0.4	ug/L	23728	Standard
|	Cr -1	53	120342.6	2.0	**46.0483**	0.329	0.7	ug/L	4227	Standard
|	Ni	58	506534.3	1.8	**46.8187**	0.504	1.1	ug/L	-9347	Standard
|	Ni -1	60	204996.8	1.2	**46.2348**	0.803	1.7	ug/L	242	Standard
|	Ni -2	62	31022.0	1.4	**45.1416**	0.694	1.5	ug/L	1958	Standard
|	Cu	63	451408.1	2.3	**46.3367**	0.229	0.5	ug/L	2502	Standard
|	Cu -1	65	208764.7	2.7	**46.3053**	0.262	0.6	ug/L	483	Standard
|	Zn	66	112690.9	4.0	**47.7489**	0.727	1.5	ug/L	770	Standard
|	Zn -1	67	18949.9	4.4	**48.0207**	0.950	2.0	ug/L	161	Standard
|	Zn -2	68	80440.9	2.4	**47.7880**	0.215	0.4	ug/L	754	Standard
|	As	75	117550.9	2.9	**49.4273**	0.068	0.1	ug/L	12256	Standard
|	As-1	75	107784.1	2.9	**48.0215**	0.219	0.5	ug/L	25	Standard
|	Se	77	6979.0	1.5	**48.1141**	0.728	1.5	ug/L	145	Standard
|	Se -1	78	34019.8	3.5	**50.6269**	1.158	2.3	ug/L	12291	Standard
|	Br	79	421.3	9.0				ug/L	304	Standard
|	Se -2	82	9566.9	3.2	**47.3362**	0.206	0.4	ug/L	42	Standard
	Kr	83	30.0	12.0				ug/L	36	Standard
	Y	89	583130.0	3.9				ug/L	618386	Standard
|	Rh	103	102133.2	1.7				ug/L	111544	Standard
|	Cd	111	132951.0	1.5	**47.0016**	0.109	0.2	ug/L	192	Standard
|	Cd -1	114	344037.4	2.4	**47.7570**	0.590	1.2	ug/L	23	Standard
|	Ho	165	503758.3	0.5				ug/L	521140	Standard
|	Pb	208	1633115.1	1.2	**46.5376**	0.501	1.1	ug/L	518	Standard
|	Bi	209	284938.4	2.1				ug/L	295516	Standard
|	Th	232	360544.0	0.3				ug/L	378918	Standard
|	Cr -2	52	101559.4	0.6	**47.9307**	0.460	1.0	ug/L	283	KED
|	Cr -3	53	12632.6	0.7	**47.3609**	0.494	1.0	ug/L	38	KED
|	Ni -3	58	118305.7	1.2	**47.3074**	0.650	1.4	ug/L	148	KED
|	Ni -4	60	51290.3	1.3	**47.2845**	0.741	1.6	ug/L	58	KED
|	Ni -5	62	7560.7	2.5	**46.3366**	1.209	2.6	ug/L	12	KED
|	Cu -2	63	129615.7	0.8	**47.0990**	0.428	0.9	ug/L	287	KED
|	Cu -3	65	60548.7	1.6	**46.7485**	0.721	1.5	ug/L	136	KED
|	Zn -3	66	13888.7	1.8	**48.6126**	0.942	1.9	ug/L	93	KED
|	Zn -4	67	2258.8	2.0	**47.2392**	1.161	2.5	ug/L	15	KED
|	Zn -5	68	10439.1	1.4	**47.9505**	0.488	1.0	ug/L	68	KED
|	As-2	75	9488.2	1.0	**47.4537**	0.697	1.5	ug/L	3	KED
	Y-1	89	61228.3	0.8				ug/L	64897	KED
	Rh-1	103	41546.3	1.6				ug/L	44712	KED
|	Cd -2	111	27450.0	1.1	**47.0848**	0.685	1.5	ug/L	4	KED
|	Cd -3	114	71707.2	0.8	**46.7371**	0.317	0.7	ug/L	8	KED
|>	Sc	45	713691.4	1.8				ug/L	772316	Standard
|>	Ge	72	411573.5	2.8				ug/L	431846	Standard
|>	In	115	403416.0	1.3				ug/L	412957	Standard
|>	Tb	159	535708.1	0.6				ug/L	554761	Standard
|>	Ge-1	72	28455.3	0.5				ug/L	30473	KED
|>	In-1	115	40287.9	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.409
| >	Ge	72		95.306
| >	In	115		97.690
| >	Tb	159		96.566
| >	Ge-1	72		93.377
| >	In-1	115		94.950

Quantitative Analysis - Summary Report

Sample ID: 05-300-07b 2X

Sample Date/Time: Friday, May 31, 2024 14:08:00
Report Date/Time: Friday, May 31, 2024 14:11:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07b 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	29176.1	2.2	**0.4275**	0.019	4.5	ug/L	23728	Standard
|	Cr -1	53	7412.6	2.4	**1.6857**	0.144	8.5	ug/L	4227	Standard
|	Ni	58	-2265.9	17.7	**0.3955**	0.045	11.5	ug/L	-9347	Standard
|	Ni -1	60	2545.6	3.0	**0.5954**	0.009	1.6	ug/L	242	Standard
|	Ni -2	62	2549.2	4.3	**1.6475**	0.280	17.0	ug/L	1958	Standard
|	Cu	63	15761.4	2.3	**1.5723**	0.013	0.8	ug/L	2502	Standard
|	Cu -1	65	6473.8	2.4	**1.5102**	0.020	1.4	ug/L	483	Standard
|	Zn	66	7602.4	1.8	**3.1375**	0.113	3.6	ug/L	770	Standard
|	Zn -1	67	1366.7	2.1	**3.2807**	0.023	0.7	ug/L	161	Standard
|	Zn -2	68	6071.3	2.3	**3.4822**	0.067	1.9	ug/L	754	Standard
|	As	75	12724.1	2.3	**0.7083**	0.052	7.3	ug/L	12256	Standard
|	As-1	75	1043.6	15.7	**0.4808**	0.072	15.0	ug/L	25	Standard
|	Se	77	216.3	11.1	**0.6033**	0.225	37.3	ug/L	145	Standard
|	Se -1	78	11802.5	1.8	**2.2424**	0.271	12.1	ug/L	12291	Standard
|	Br	79	14559.7	1.3				ug/L	304	Standard
|	Se -2	82	65.3	12.3	**0.2154**	0.034	15.7	ug/L	42	Standard
	Kr	83	29.7	17.3				ug/L	36	Standard
	Y	89	537021.7	2.6				ug/L	618386	Standard
|	Rh	103	94283.9	2.0				ug/L	111544	Standard
|	Cd	111	227.9	14.8	**-0.0048**	0.015	308.9	ug/L	192	Standard
|	Cd -1	114	67.5	18.1	**-0.0165**	0.002	12.3	ug/L	23	Standard
|	Ho	165	471497.1	1.6				ug/L	521140	Standard
|	Pb	208	3330.1	2.3	**0.0658**	0.005	7.2	ug/L	518	Standard
|	Bi	209	260619.8	1.5				ug/L	295516	Standard
|	Th	232	340027.3	1.9				ug/L	378918	Standard
|	Cr -2	52	1055.0	4.4	**0.4009**	0.026	6.6	ug/L	283	KED
|	Cr -3	53	177.7	47.7	**0.5592**	0.341	60.9	ug/L	38	KED
|	Ni -3	58	1458.9	6.1	**0.5796**	0.042	7.3	ug/L	148	KED
|	Ni -4	60	496.3	10.8	**0.4364**	0.050	11.4	ug/L	58	KED
|	Ni -5	62	75.0	16.7	**0.4598**	0.078	17.1	ug/L	12	KED
|	Cu -2	63	3977.9	1.1	**1.4745**	0.005	0.3	ug/L	287	KED
|	Cu -3	65	1856.8	5.8	**1.4816**	0.099	6.7	ug/L	136	KED
|	Zn -3	66	890.4	2.6	**2.9403**	0.108	3.7	ug/L	93	KED
|	Zn -4	67	171.3	7.5	**3.4503**	0.254	7.4	ug/L	15	KED
|	Zn -5	68	773.4	5.2	**3.4703**	0.185	5.3	ug/L	68	KED
|	As-2	75	96.7	12.9	**0.4990**	0.069	13.7	ug/L	3	KED
	Y-1	89	58536.4	0.4				ug/L	64897	KED
	Rh-1	103	38917.9	0.3				ug/L	44712	KED
|	Cd -2	111	5.0	34.6	**-0.0256**	0.003	12.4	ug/L	4	KED
|	Cd -3	114	11.3	10.2	**-0.0322**	0.001	2.8	ug/L	8	KED
|>	Sc	45	679312.8	2.4				ug/L	772316	Standard
|>	Ge	72	383639.9	2.6				ug/L	431846	Standard
|>	In	115	378773.5	2.3				ug/L	412957	Standard
|>	Tb	159	496425.7	2.4				ug/L	554761	Standard
|>	Ge-1	72	26970.8	0.8				ug/L	30473	KED
|>	In-1	115	37621.7	1.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		87.958
| >	Ge	72		88.837
| >	In	115		91.722
| >	Tb	159		89.485
| >	Ge-1	72		88.506
| >	In-1	115		88.666

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bD 2X

Sample Date/Time: Friday, May 31, 2024 14:13:39
Report Date/Time: Friday, May 31, 2024 14:16:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bD 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	28665.1	1.3	**0.3509**	0.018	5.1	ug/L	23728	Standard
|	Cr -1	53	6153.3	0.8	**1.0632**	0.022	2.1	ug/L	4227	Standard
|	Ni	58	-1884.8	23.7	**0.4408**	0.047	10.6	ug/L	-9347	Standard
|	Ni -1	60	2683.3	0.4	**0.6009**	0.017	2.9	ug/L	242	Standard
|	Ni -2	62	2136.2	1.6	**0.8107**	0.119	14.7	ug/L	1958	Standard
|	Cu	63	15951.9	0.5	**1.5174**	0.040	2.7	ug/L	2502	Standard
|	Cu -1	65	6553.2	1.5	**1.4618**	0.030	2.0	ug/L	483	Standard
|	Zn	66	7594.7	3.0	**2.9817**	0.062	2.1	ug/L	770	Standard
|	Zn -1	67	1350.1	2.8	**3.0738**	0.030	1.0	ug/L	161	Standard
|	Zn -2	68	6105.3	4.4	**3.3323**	0.084	2.5	ug/L	754	Standard
|	As	75	12747.5	2.2	**0.4424**	0.093	21.1	ug/L	12256	Standard
|	As-1	75	984.4	6.2	**0.4323**	0.018	4.1	ug/L	25	Standard
|	Se	77	176.3	3.6	**0.2407**	0.072	29.9	ug/L	145	Standard
|	Se -1	78	11860.3	1.8	**1.1340**	0.443	39.1	ug/L	12291	Standard
|	Br	79	15540.5	2.5				ug/L	304	Standard
|	Se -2	82	55.7	8.9	**0.1519**	0.029	18.9	ug/L	42	Standard
	Kr	83	34.0	19.3				ug/L	36	Standard
	Y	89	554561.7	0.8				ug/L	618386	Standard
|	Rh	103	96493.8	1.2				ug/L	111544	Standard
|	Cd	111	208.3	2.8	**-0.0139**	0.003	19.7	ug/L	192	Standard
|	Cd -1	114	33.3	15.4	**-0.0217**	0.001	2.8	ug/L	23	Standard
|	Ho	165	471440.4	2.5				ug/L	521140	Standard
|	Pb	208	3244.8	2.8	**0.0630**	0.001	1.9	ug/L	518	Standard
|	Bi	209	259831.4	1.8				ug/L	295516	Standard
|	Th	232	338218.4	0.8				ug/L	378918	Standard
|	Cr -2	52	996.7	4.2	**0.3530**	0.021	5.8	ug/L	283	KED
|	Cr -3	53	137.7	3.4	**0.3790**	0.019	4.9	ug/L	38	KED
|	Ni -3	58	1533.5	2.9	**0.5865**	0.017	2.9	ug/L	148	KED
|	Ni -4	60	497.0	3.7	**0.4191**	0.018	4.2	ug/L	58	KED
|	Ni -5	62	75.7	6.7	**0.4459**	0.031	6.9	ug/L	12	KED
|	Cu -2	63	4030.9	1.9	**1.4368**	0.027	1.9	ug/L	287	KED
|	Cu -3	65	1905.1	0.8	**1.4622**	0.012	0.8	ug/L	136	KED
|	Zn -3	66	937.0	1.0	**2.9825**	0.037	1.3	ug/L	93	KED
|	Zn -4	67	181.3	12.5	**3.5223**	0.482	13.7	ug/L	15	KED
|	Zn -5	68	751.4	1.2	**3.2257**	0.048	1.5	ug/L	68	KED
|	As-2	75	98.3	30.8	**0.4880**	0.153	31.4	ug/L	3	KED
	Y-1	89	60022.2	0.6				ug/L	64897	KED
	Rh-1	103	40164.0	0.8				ug/L	44712	KED
|	Cd -2	111	5.7	20.4	**-0.0247**	0.002	7.7	ug/L	4	KED
|	Cd -3	114	12.7	12.1	**-0.0315**	0.001	3.1	ug/L	8	KED
|>	Sc	45	706734.4	0.3				ug/L	772316	Standard
|>	Ge	72	401024.1	2.5				ug/L	431846	Standard
|>	In	115	386635.8	2.9				ug/L	412957	Standard
|>	Tb	159	496870.3	1.8				ug/L	554761	Standard
|>	Ge-1	72	28023.5	0.1				ug/L	30473	KED
|>	In-1	115	38748.3	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		91.508
|>	Ge	72		92.863
|>	In	115		93.626
|>	Tb	159		89.565
|>	Ge-1	72		91.960
|>	In-1	115		91.321

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bL 10X

Sample Date/Time: Friday, May 31, 2024 14:19:56
Report Date/Time: Friday, May 31, 2024 14:23:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bL 10X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	23516.3	0.7	**0.0855**	0.011	12.7	ug/L	23728	Standard
|	Cr -1	53	3509.8	1.2	**-0.0313**	0.022	68.9	ug/L	4227	Standard
|	Ni	58	-6609.0	6.8	**0.0126**	0.055	435.9	ug/L	-9347	Standard
|	Ni -1	60	684.3	4.7	**0.1342**	0.004	2.8	ug/L	242	Standard
|	Ni -2	62	1582.1	2.7	**-0.1200**	0.127	105.6	ug/L	1958	Standard
|	Cu	63	4483.4	2.6	**0.2935**	0.008	2.7	ug/L	2502	Standard
|	Cu -1	65	1504.7	2.4	**0.3038**	0.014	4.5	ug/L	483	Standard
|	Zn	66	2216.5	4.6	**0.6030**	0.018	3.0	ug/L	770	Standard
|	Zn -1	67	402.0	8.6	**0.5582**	0.062	11.2	ug/L	161	Standard
|	Zn -2	68	1807.4	3.1	**0.6646**	0.019	2.9	ug/L	754	Standard
|	As	75	12064.2	1.2	**-0.0179**	0.097	545.4	ug/L	12256	Standard
|	As-1	75	150.6	6.0	**0.0496**	0.002	4.4	ug/L	25	Standard
|	Se	77	111.7	16.6	**-0.2480**	0.109	44.0	ug/L	145	Standard
|	Se -1	78	11957.7	1.1	**0.7301**	0.510	69.9	ug/L	12291	Standard
|	Br	79	3770.8	4.0				ug/L	304	Standard
|	Se -2	82	35.0	13.1	**0.0428**	0.027	64.0	ug/L	42	Standard
	Kr	83	29.7	12.8				ug/L	36	Standard
	Y	89	587395.7	0.8				ug/L	618386	Standard
|	Rh	103	101979.7	0.7				ug/L	111544	Standard
|	Cd	111	212.9	5.4	**-0.0145**	0.005	33.2	ug/L	192	Standard
|	Cd -1	114	36.9	16.1	**-0.0213**	0.001	4.1	ug/L	23	Standard
|	Ho	165	483745.6	3.0				ug/L	521140	Standard
|	Pb	208	1041.7	2.4	**-0.0061**	0.000	7.3	ug/L	518	Standard
|	Bi	209	266995.0	0.9				ug/L	295516	Standard
|	Th	232	319100.4	3.1				ug/L	378918	Standard
|	Cr -2	52	401.7	2.4	**0.0589**	0.007	11.8	ug/L	283	KED
|	Cr -3	53	48.7	6.6	**0.0312**	0.011	34.7	ug/L	38	KED
|	Ni -3	58	372.4	11.3	**0.1083**	0.018	16.2	ug/L	148	KED
|	Ni -4	60	133.0	8.7	**0.0728**	0.012	16.8	ug/L	58	KED
|	Ni -5	62	21.0	4.8	**0.0999**	0.004	4.4	ug/L	12	KED
|	Cu -2	63	920.7	2.5	**0.2733**	0.003	0.9	ug/L	287	KED
|	Cu -3	65	464.3	3.6	**0.3162**	0.007	2.2	ug/L	136	KED
|	Zn -3	66	273.7	8.4	**0.5658**	0.094	16.7	ug/L	93	KED
|	Zn -4	67	53.7	7.8	**0.7432**	0.103	13.9	ug/L	15	KED
|	Zn -5	68	229.0	1.5	**0.7282**	0.029	4.0	ug/L	68	KED
|	As-2	75	19.0	36.8	**0.0809**	0.034	41.9	ug/L	3	KED
	Y-1	89	61644.4	0.6				ug/L	64897	KED
	Rh-1	103	42047.1	1.3				ug/L	44712	KED
|	Cd -2	111	5.0	52.9	**-0.0261**	0.005	17.4	ug/L	4	KED
|	Cd -3	114	10.0	17.3	**-0.0336**	0.001	3.5	ug/L	8	KED
|>	Sc	45	728772.9	1.0				ug/L	772316	Standard
|>	Ge	72	410381.8	2.7				ug/L	431846	Standard
|>	In	115	398105.1	1.3				ug/L	412957	Standard
|>	Tb	159	517937.9	1.1				ug/L	554761	Standard
|>	Ge-1	72	29277.6	1.7				ug/L	30473	KED
|>	In-1	115	40033.2	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		94.362
| >	Ge	72		95.030
| >	In	115		96.404
| >	Tb	159		93.362
| >	Ge-1	72		96.076
| >	In-1	115		94.349

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bMS 2X

Sample Date/Time: Friday, May 31, 2024 14:25:35
Report Date/Time: Friday, May 31, 2024 14:28:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bMS 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1120275.3	2.2	**48.5435**	0.694	1.4	ug/L	23728	Standard
|	Cr -1	53	128962.4	2.6	**48.6833**	0.654	1.3	ug/L	4227	Standard
|	Ni	58	537029.5	1.7	**50.2066**	0.334	0.7	ug/L	-9347	Standard
|	Ni -1	60	215776.4	2.6	**49.2572**	0.313	0.6	ug/L	242	Standard
|	Ni -2	62	32007.2	3.1	**47.2515**	0.452	1.0	ug/L	1958	Standard
|	Cu	63	477229.8	2.5	**49.6047**	0.241	0.5	ug/L	2502	Standard
|	Cu -1	65	223067.5	2.0	**50.0986**	0.137	0.3	ug/L	483	Standard
|	Zn	66	123607.5	0.3	**53.0947**	1.166	2.2	ug/L	770	Standard
|	Zn -1	67	21156.3	2.8	**54.3536**	0.551	1.0	ug/L	161	Standard
|	Zn -2	68	88598.6	0.6	**53.3515**	1.091	2.0	ug/L	754	Standard
|	As	75	123085.7	1.6	**52.7522**	0.702	1.3	ug/L	12256	Standard
|	As-1	75	113495.1	1.3	**51.2083**	0.676	1.3	ug/L	25	Standard
|	Se	77	7345.2	4.1	**51.3206**	1.561	3.0	ug/L	145	Standard
|	Se -1	78	35273.8	2.7	**54.4686**	0.777	1.4	ug/L	12291	Standard
|	Br	79	14055.2	2.0				ug/L	304	Standard
|	Se -2	82	10129.9	1.7	**50.7655**	0.256	0.5	ug/L	42	Standard
	Kr	83	32.3	7.8				ug/L	36	Standard
	Y	89	584829.2	3.2				ug/L	618386	Standard
|	Rh	103	102714.4	2.3				ug/L	111544	Standard
|	Cd	111	139250.2	2.2	**49.1877**	0.490	1.0	ug/L	192	Standard
|	Cd -1	114	358808.6	2.5	**49.7648**	0.628	1.3	ug/L	23	Standard
|	Ho	165	499850.4	2.8				ug/L	521140	Standard
|	Pb	208	1667733.8	2.4	**47.9587**	0.487	1.0	ug/L	518	Standard
|	Bi	209	275584.5	2.5				ug/L	295516	Standard
|	Th	232	360718.7	1.2				ug/L	378918	Standard
|	Cr -2	52	101978.4	1.3	**48.8699**	1.100	2.3	ug/L	283	KED
|	Cr -3	53	12834.1	0.7	**48.8559**	0.574	1.2	ug/L	38	KED
|	Ni -3	58	119964.5	0.5	**48.7063**	0.703	1.4	ug/L	148	KED
|	Ni -4	60	51870.0	0.6	**48.5517**	0.715	1.5	ug/L	58	KED
|	Ni -5	62	7784.5	0.5	**48.4389**	0.588	1.2	ug/L	12	KED
|	Cu -2	63	134613.3	1.3	**49.6674**	0.945	1.9	ug/L	287	KED
|	Cu -3	65	62682.6	1.7	**49.1410**	1.168	2.4	ug/L	136	KED
|	Zn -3	66	14730.6	2.0	**52.3792**	1.382	2.6	ug/L	93	KED
|	Zn -4	67	2460.2	1.7	**52.2770**	1.398	2.7	ug/L	15	KED
|	Zn -5	68	11061.6	0.8	**51.6123**	0.761	1.5	ug/L	68	KED
|	As-2	75	9726.6	0.5	**49.3875**	0.208	0.4	ug/L	3	KED
	Y-1	89	60681.6	1.1				ug/L	64897	KED
	Rh-1	103	40409.1	0.8				ug/L	44712	KED
|	Cd -2	111	27877.2	1.6	**49.1340**	0.222	0.5	ug/L	4	KED
|	Cd -3	114	72796.0	0.7	**48.7589**	0.386	0.8	ug/L	8	KED
|>	Sc	45	724754.5	3.6				ug/L	772316	Standard
|>	Ge	72	406496.4	2.2				ug/L	431846	Standard
|>	In	115	403762.7	1.3				ug/L	412957	Standard
|>	Tb	159	530985.9	3.4				ug/L	554761	Standard
|>	Ge-1	72	28028.1	0.9				ug/L	30473	KED
|>	In-1	115	39207.4	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		93.842
| >	Ge	72		94.130
| >	In	115		97.774
| >	Tb	159		95.714
| >	Ge-1	72		91.976
| >	In-1	115		92.403

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bMSD 2X

Sample Date/Time: Friday, May 31, 2024 14:31:15
Report Date/Time: Friday, May 31, 2024 14:34:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bMSD 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1098174.0	1.7	**48.9921**	0.673	1.4	ug/L	23728	Standard
|	Cr -1	53	128204.7	0.8	**49.8557**	0.207	0.4	ug/L	4227	Standard
|	Ni	58	537722.5	2.6	**50.8164**	0.685	1.3	ug/L	-9347	Standard
|	Ni -1	60	213537.6	1.4	**49.2950**	0.504	1.0	ug/L	242	Standard
|	Ni -2	62	32147.1	2.4	**48.0295**	0.321	0.7	ug/L	1958	Standard
|	Cu	63	482348.0	2.3	**50.6980**	0.406	0.8	ug/L	2502	Standard
|	Cu -1	65	220336.7	2.1	**50.0327**	0.187	0.4	ug/L	483	Standard
|	Zn	66	124869.9	2.2	**54.2222**	0.383	0.7	ug/L	770	Standard
|	Zn -1	67	21211.7	1.5	**55.1144**	0.160	0.3	ug/L	161	Standard
|	Zn -2	68	88404.1	1.6	**53.8168**	0.311	0.6	ug/L	754	Standard
|	As	75	122521.2	2.1	**53.1227**	0.412	0.8	ug/L	12256	Standard
|	As-1	75	112780.8	2.4	**51.4426**	0.680	1.3	ug/L	25	Standard
|	Se	77	7389.6	2.5	**52.2240**	0.499	1.0	ug/L	145	Standard
|	Se -1	78	35065.7	1.6	**54.8937**	0.568	1.0	ug/L	12291	Standard
|	Br	79	13694.6	2.2				ug/L	304	Standard
|	Se -2	82	9989.2	2.1	**50.6172**	0.955	1.9	ug/L	42	Standard
	Kr	83	35.3	41.4				ug/L	36	Standard
	Y	89	570299.6	1.6				ug/L	618386	Standard
|	Rh	103	99856.8	1.0				ug/L	111544	Standard
|	Cd	111	140497.8	1.2	**50.3164**	0.374	0.7	ug/L	192	Standard
|	Cd -1	114	356098.2	0.6	**50.0749**	0.429	0.9	ug/L	23	Standard
|	Ho	165	492572.4	1.1				ug/L	521140	Standard
|	Pb	208	1648258.2	1.4	**48.3525**	0.406	0.8	ug/L	518	Standard
|	Bi	209	266519.2	2.0				ug/L	295516	Standard
|	Th	232	342039.4	1.8				ug/L	378918	Standard
|	Cr -2	52	104380.3	0.5	**49.7521**	0.479	1.0	ug/L	283	KED
|	Cr -3	53	13073.6	0.8	**49.5019**	0.036	0.1	ug/L	38	KED
|	Ni -3	58	121681.6	1.2	**49.1402**	0.871	1.8	ug/L	148	KED
|	Ni -4	60	53066.7	0.9	**49.4036**	0.074	0.1	ug/L	58	KED
|	Ni -5	62	7825.5	1.7	**48.4335**	0.899	1.9	ug/L	12	KED
|	Cu -2	63	135984.6	1.3	**49.9006**	0.279	0.6	ug/L	287	KED
|	Cu -3	65	63932.8	1.9	**49.8466**	0.667	1.3	ug/L	136	KED
|	Zn -3	66	15211.1	0.7	**53.8044**	0.453	0.8	ug/L	93	KED
|	Zn -4	67	2498.6	2.0	**52.8035**	0.955	1.8	ug/L	15	KED
|	Zn -5	68	11496.0	2.8	**53.3541**	1.105	2.1	ug/L	68	KED
|	As-2	75	10029.2	0.6	**50.6521**	0.088	0.2	ug/L	3	KED
	Y-1	89	60605.0	1.2				ug/L	64897	KED
	Rh-1	103	40321.8	1.0				ug/L	44712	KED
|	Cd -2	111	28329.4	0.7	**50.1585**	0.954	1.9	ug/L	4	KED
|	Cd -3	114	73697.3	0.5	**49.5793**	0.501	1.0	ug/L	8	KED
|>	Sc	45	703818.3	0.4				ug/L	772316	Standard
|>	Ge	72	402019.0	1.8				ug/L	431846	Standard
|>	In	115	398305.5	1.4				ug/L	412957	Standard
|>	Tb	159	520387.0	0.9				ug/L	554761	Standard
|>	Ge-1	72	28178.1	0.7				ug/L	30473	KED
|>	In-1	115	39038.2	1.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		91.131
| >	Ge	72		93.093
| >	In	115		96.452
| >	Tb	159		93.804
| >	Ge-1	72		92.468
| >	In-1	115		92.004

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bPS 2X

Sample Date/Time: Friday, May 31, 2024 14:36:55
Report Date/Time: Friday, May 31, 2024 14:40:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bPS 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	826203.5	2.1	**38.1796**	0.281	0.7	ug/L	23728	Standard
|	Cr -1	53	98208.5	1.8	**39.4922**	0.329	0.8	ug/L	4227	Standard
|	Ni	58	397624.5	1.4	**40.3478**	0.398	1.0	ug/L	-9347	Standard
|	Ni -1	60	161245.4	1.5	**39.8311**	0.344	0.9	ug/L	242	Standard
|	Ni -2	62	24333.0	1.3	**38.4270**	0.505	1.3	ug/L	1958	Standard
|	Cu	63	362967.7	2.5	**40.7931**	0.051	0.1	ug/L	2502	Standard
|	Cu -1	65	166427.8	2.1	**40.4377**	0.115	0.3	ug/L	483	Standard
|	Zn	66	94985.6	3.4	**44.0669**	0.484	1.1	ug/L	770	Standard
|	Zn -1	67	16515.2	3.8	**45.8308**	0.915	2.0	ug/L	161	Standard
|	Zn -2	68	68204.8	2.3	**44.3564**	0.205	0.5	ug/L	754	Standard
|	As	75	94181.6	2.1	**42.6915**	0.270	0.6	ug/L	12256	Standard
|	As-1	75	84428.6	2.1	**41.2101**	0.335	0.8	ug/L	25	Standard
|	Se	77	5570.1	1.2	**41.9390**	0.823	2.0	ug/L	145	Standard
|	Se -1	78	29056.5	2.5	**45.6748**	0.370	0.8	ug/L	12291	Standard
|	Br	79	15262.8	1.5				ug/L	304	Standard
|	Se -2	82	7617.4	2.7	**41.2780**	0.643	1.6	ug/L	42	Standard
	Kr	83	23.3	17.8				ug/L	36	Standard
	Y	89	539000.0	3.1				ug/L	618386	Standard
|	Rh	103	93508.8	2.4				ug/L	111544	Standard
|	Cd	111	104334.4	2.7	**40.4093**	0.649	1.6	ug/L	192	Standard
|	Cd -1	114	269706.5	1.2	**41.0338**	0.356	0.9	ug/L	23	Standard
|	Ho	165	453070.6	0.7				ug/L	521140	Standard
|	Pb	208	1223087.1	0.6	**38.9009**	0.057	0.1	ug/L	518	Standard
|	Bi	209	248177.2	0.3				ug/L	295516	Standard
|	Th	232	315432.1	1.8				ug/L	378918	Standard
|	Cr -2	52	79967.9	0.6	**40.6324**	0.211	0.5	ug/L	283	KED
|	Cr -3	53	10068.9	0.7	**40.6412**	0.445	1.1	ug/L	38	KED
|	Ni -3	58	93726.3	0.4	**40.3652**	0.314	0.8	ug/L	148	KED
|	Ni -4	60	40773.8	0.9	**40.4827**	0.495	1.2	ug/L	58	KED
|	Ni -5	62	6153.0	1.9	**40.6161**	0.807	2.0	ug/L	12	KED
|	Cu -2	63	105330.9	0.1	**41.2213**	0.227	0.6	ug/L	287	KED
|	Cu -3	65	49129.7	1.1	**40.8556**	0.546	1.3	ug/L	136	KED
|	Zn -3	66	11754.5	1.5	**44.2820**	0.533	1.2	ug/L	93	KED
|	Zn -4	67	1969.5	1.7	**44.3411**	0.785	1.8	ug/L	15	KED
|	Zn -5	68	8998.8	1.2	**44.5044**	0.585	1.3	ug/L	68	KED
|	As-2	75	7617.0	2.1	**41.0330**	0.949	2.3	ug/L	3	KED
	Y-1	89	57161.1	0.8				ug/L	64897	KED
	Rh-1	103	38195.0	0.5				ug/L	44712	KED
|	Cd -2	111	21353.6	0.8	**40.1052**	0.077	0.2	ug/L	4	KED
|	Cd -3	114	56463.0	0.7	**40.2965**	0.095	0.2	ug/L	8	KED
|>	Sc	45	675922.9	2.6				ug/L	772316	Standard
|>	Ge	72	375685.6	2.4				ug/L	431846	Standard
|>	In	115	368095.1	1.7				ug/L	412957	Standard
|>	Tb	159	479891.3	0.5				ug/L	554761	Standard
|>	Ge-1	72	26417.1	0.4				ug/L	30473	KED
|>	In-1	115	36788.7	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		87.519
| >	Ge	72		86.995
| >	In	115		89.136
| >	Tb	159		86.504
| >	Ge-1	72		86.689
| >	In-1	115		86.703

Quantitative Analysis - Summary Report

Sample ID: 05-353-02k 2X

Sample Date/Time: Friday, May 31, 2024 14:42:36
Report Date/Time: Friday, May 31, 2024 14:45:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-353-02k 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	43061.5	1.5	**0.8404**	0.014	1.7	ug/L	23728	Standard
|	Cr -1	53	13713.9	3.4	**3.6201**	0.241	6.7	ug/L	4227	Standard
|	Ni	58	9640.5	14.6	**1.4671**	0.116	7.9	ug/L	-9347	Standard
|	Ni -1	60	6585.5	2.6	**1.4158**	0.062	4.4	ug/L	242	Standard
|	Ni -2	62	2182.8	1.6	**0.6820**	0.049	7.2	ug/L	1958	Standard
|	Cu	63	6587.5	2.5	**0.4860**	0.006	1.2	ug/L	2502	Standard
|	Cu -1	65	1226.4	2.1	**0.2317**	0.007	3.0	ug/L	483	Standard
|	Zn	66	2725.9	2.6	**0.7789**	0.007	1.0	ug/L	770	Standard
|	Zn -1	67	589.3	3.6	**0.9849**	0.029	3.0	ug/L	161	Standard
|	Zn -2	68	2710.9	3.6	**1.1483**	0.046	4.0	ug/L	754	Standard
|	As	75	13185.8	1.0	**0.2844**	0.155	54.4	ug/L	12256	Standard
|	As-1	75	736.2	2.9	**0.2995**	0.011	3.6	ug/L	25	Standard
|	Se	77	627.7	2.6	**3.2367**	0.094	2.9	ug/L	145	Standard
|	Se -1	78	12564.5	0.9	**1.0704**	0.662	61.8	ug/L	12291	Standard
|	Br	79	12387.4	3.0				ug/L	304	Standard
|	Se -2	82	63.7	13.7	**0.1730**	0.036	21.0	ug/L	42	Standard
	Kr	83	29.0	22.6				ug/L	36	Standard
	Y	89	601046.2	3.3				ug/L	618386	Standard
|	Rh	103	103404.2	3.8				ug/L	111544	Standard
|	Cd	111	268.9	3.6	**0.0018**	0.006	318.8	ug/L	192	Standard
|	Cd -1	114	69.8	13.8	**-0.0171**	0.002	9.5	ug/L	23	Standard
|	Ho	165	525490.2	2.9				ug/L	521140	Standard
|	Pb	208	4818.6	1.6	**0.0964**	0.003	3.3	ug/L	518	Standard
|	Bi	209	280449.5	2.9				ug/L	295516	Standard
|	Th	232	367508.1	1.4				ug/L	378918	Standard
|	Cr -2	52	693.0	2.9	**0.2067**	0.004	1.8	ug/L	283	KED
|	Cr -3	53	96.3	6.0	**0.2211**	0.029	13.1	ug/L	38	KED
|	Ni -3	58	3738.9	5.5	**1.4822**	0.109	7.3	ug/L	148	KED
|	Ni -4	60	884.0	3.9	**0.7813**	0.046	5.8	ug/L	58	KED
|	Ni -5	62	130.0	9.5	**0.7832**	0.071	9.1	ug/L	12	KED
|	Cu -2	63	539.0	1.4	**0.1468**	0.007	4.5	ug/L	287	KED
|	Cu -3	65	252.3	6.2	**0.1652**	0.009	5.4	ug/L	136	KED
|	Zn -3	66	299.3	5.2	**0.6984**	0.076	10.9	ug/L	93	KED
|	Zn -4	67	55.0	15.9	**0.8177**	0.176	21.5	ug/L	15	KED
|	Zn -5	68	265.3	7.1	**0.9443**	0.108	11.4	ug/L	68	KED
|	As-2	75	56.0	16.4	**0.2724**	0.042	15.6	ug/L	3	KED
	Y-1	89	61784.0	0.7				ug/L	64897	KED
	Rh-1	103	39741.9	1.3				ug/L	44712	KED
|	Cd -2	111	5.7	71.3	**-0.0249**	0.007	28.2	ug/L	4	KED
|	Cd -3	114	14.0	18.9	**-0.0309**	0.002	5.8	ug/L	8	KED
|>	Sc	45	770968.2	1.5				ug/L	772316	Standard
|>	Ge	72	425862.2	1.9				ug/L	431846	Standard
|>	In	115	414489.4	3.1				ug/L	412957	Standard
|>	Tb	159	553095.7	3.5				ug/L	554761	Standard
|>	Ge-1	72	28053.5	1.8				ug/L	30473	KED
|>	In-1	115	39702.8	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		99.826
| >	Ge	72		98.614
| >	In	115		100.371
| >	Tb	159		99.700
| >	Ge-1	72		92.059
| >	In-1	115		93.571

Quantitative Analysis - Summary Report

Sample ID: 05-353-07k 2X

Sample Date/Time: Friday, May 31, 2024 14:48:16
Report Date/Time: Friday, May 31, 2024 14:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-353-07k 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	42009.0	1.1	**0.8342**	0.045	5.4	ug/L	23728	Standard
|	Cr -1	53	8240.4	1.6	**1.6871**	0.156	9.2	ug/L	4227	Standard
|	Ni	58	513.9	162.1	**0.6643**	0.075	11.3	ug/L	-9347	Standard
|	Ni -1	60	4534.4	1.4	**0.9793**	0.012	1.2	ug/L	242	Standard
|	Ni -2	62	1382.7	5.7	**-0.4824**	0.146	30.2	ug/L	1958	Standard
|	Cu	63	4425.7	1.2	**0.2759**	0.004	1.5	ug/L	2502	Standard
|	Cu -1	65	587.3	3.1	**0.0961**	0.004	4.1	ug/L	483	Standard
|	Zn	66	968.0	1.0	**0.0584**	0.009	15.1	ug/L	770	Standard
|	Zn -1	67	234.0	10.5	**0.1126**	0.059	52.4	ug/L	161	Standard
|	Zn -2	68	1368.4	1.1	**0.3801**	0.019	5.0	ug/L	754	Standard
|	As	75	13232.7	1.5	**0.3721**	0.019	5.0	ug/L	12256	Standard
|	As-1	75	177.5	19.9	**0.0598**	0.016	27.5	ug/L	25	Standard
|	Se	77	415.7	2.2	**1.8260**	0.034	1.9	ug/L	145	Standard
|	Se -1	78	13181.4	1.7	**2.7417**	0.160	5.8	ug/L	12291	Standard
|	Br	79	23958.1	2.9				ug/L	304	Standard
|	Se -2	82	69.0	3.8	**0.2029**	0.016	8.0	ug/L	42	Standard
	Kr	83	29.7	11.8				ug/L	36	Standard
	Y	89	607641.8	2.5				ug/L	618386	Standard
|	Rh	103	104143.9	1.1				ug/L	111544	Standard
|	Cd	111	228.0	9.3	**-0.0118**	0.007	55.2	ug/L	192	Standard
|	Cd -1	114	19.1	12.4	**-0.0239**	0.000	1.4	ug/L	23	Standard
|	Ho	165	526805.9	2.5				ug/L	521140	Standard
|	Pb	208	4424.3	1.2	**0.0846**	0.001	1.6	ug/L	518	Standard
|	Bi	209	288463.7	1.9				ug/L	295516	Standard
|	Th	232	367366.9	1.4				ug/L	378918	Standard
|	Cr -2	52	536.0	3.5	**0.1360**	0.012	8.6	ug/L	283	KED
|	Cr -3	53	73.3	22.5	**0.1379**	0.064	46.4	ug/L	38	KED
|	Ni -3	58	1364.8	4.7	**0.5273**	0.031	5.9	ug/L	148	KED
|	Ni -4	60	439.7	6.7	**0.3721**	0.026	7.1	ug/L	58	KED
|	Ni -5	62	75.0	5.8	**0.4497**	0.032	7.1	ug/L	12	KED
|	Cu -2	63	160.3	16.2	**0.0081**	0.010	123.5	ug/L	287	KED
|	Cu -3	65	83.3	9.8	**0.0341**	0.007	20.7	ug/L	136	KED
|	Zn -3	66	87.7	17.8	**-0.0542**	0.057	104.6	ug/L	93	KED
|	Zn -4	67	23.0	15.7	**0.1429**	0.075	52.2	ug/L	15	KED
|	Zn -5	68	83.3	12.8	**0.0966**	0.049	50.7	ug/L	68	KED
|	As-2	75	16.3	3.5	**0.0730**	0.002	3.0	ug/L	3	KED
	Y-1	89	61155.0	0.1				ug/L	64897	KED
	Rh-1	103	39087.7	0.4				ug/L	44712	KED
|	Cd -2	111	4.0	50.0	**-0.0278**	0.003	12.6	ug/L	4	KED
|	Cd -3	114	7.0	37.8	**-0.0355**	0.002	5.0	ug/L	8	KED
| >	Sc	45	755174.7	3.5				ug/L	772316	Standard
| >	Ge	72	421057.0	1.3				ug/L	431846	Standard
| >	In	115	411299.6	1.4				ug/L	412957	Standard
| >	Tb	159	556775.9	2.3				ug/L	554761	Standard
| >	Ge-1	72	27567.2	1.0				ug/L	30473	KED
| >	In-1	115	39910.2	0.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		97.781
| >	Ge	72		97.502
| >	In	115		99.599
| >	Tb	159		100.363
| >	Ge-1	72		90.463
| >	In-1	115		94.060

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 31, 2024 14:53:57
Report Date/Time: Friday, May 31, 2024 14:57:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 6.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	973011.4	0.6	**41.1915**	0.781	1.9	ug/L	23728	Standard
|	Cr -1	53	114799.4	0.8	**42.3063**	0.448	1.1	ug/L	4227	Standard
|	Ni	58	484837.1	0.7	**40.2743**	0.681	1.7	ug/L	-9347	Standard
|	Ni -1	60	194915.1	0.7	**39.4148**	0.665	1.7	ug/L	242	Standard
|	Ni -2	62	28767.6	1.4	**37.1029**	0.629	1.7	ug/L	1958	Standard
|	Cu	63	426461.7	1.5	**39.2296**	0.294	0.7	ug/L	2502	Standard
|	Cu -1	65	196303.7	1.3	**39.0433**	0.278	0.7	ug/L	483	Standard
|	Zn	66	106563.7	1.3	**40.4538**	0.740	1.8	ug/L	770	Standard
|	Zn -1	67	18471.6	0.3	**41.9391**	0.957	2.3	ug/L	161	Standard
|	Zn -2	68	76485.2	1.0	**40.6863**	0.411	1.0	ug/L	754	Standard
|	As	75	115087.0	1.5	**42.7048**	0.405	0.9	ug/L	12256	Standard
|	As-1	75	104508.5	1.7	**41.7550**	0.271	0.6	ug/L	25	Standard
|	Se	77	7025.1	1.3	**43.3224**	0.287	0.7	ug/L	145	Standard
|	Se -1	78	34505.0	0.9	**43.6697**	0.782	1.8	ug/L	12291	Standard
|	Br	79	1044.7	7.8				ug/L	304	Standard
|	Se -2	82	9439.5	1.8	**41.8739**	0.437	1.0	ug/L	42	Standard
	Kr	83	31.7	4.8				ug/L	36	Standard
	Y	89	658236.3	1.6				ug/L	618386	Standard
|	Rh	103	116700.4	1.0				ug/L	111544	Standard
|	Cd	111	126857.8	1.0	**41.9152**	0.587	1.4	ug/L	192	Standard
|	Cd -1	114	320081.5	1.1	**41.5327**	0.163	0.4	ug/L	23	Standard
|	Ho	165	554160.5	1.0				ug/L	521140	Standard
|	Pb	208	1532902.0	1.2	**39.9319**	0.219	0.5	ug/L	518	Standard
|	Bi	209	305780.0	1.9				ug/L	295516	Standard
|	Th	232	371043.6	2.4				ug/L	378918	Standard
|	Cr -2	52	89348.9	0.9	**39.9424**	0.567	1.4	ug/L	283	KED
|	Cr -3	53	11196.1	0.3	**39.7565**	0.362	0.9	ug/L	38	KED
|	Ni -3	58	104668.8	0.3	**39.6598**	0.323	0.8	ug/L	148	KED
|	Ni -4	60	45559.9	0.4	**39.7965**	0.134	0.3	ug/L	58	KED
|	Ni -5	62	6795.9	0.3	**39.4677**	0.198	0.5	ug/L	12	KED
|	Cu -2	63	114021.6	0.6	**39.2567**	0.225	0.6	ug/L	287	KED
|	Cu -3	65	53990.2	1.6	**39.4979**	0.397	1.0	ug/L	136	KED
|	Zn -3	66	12671.0	1.0	**41.9782**	0.181	0.4	ug/L	93	KED
|	Zn -4	67	2014.5	0.7	**39.8686**	0.479	1.2	ug/L	15	KED
|	Zn -5	68	9418.4	1.7	**40.9549**	0.438	1.1	ug/L	68	KED
|	As-2	75	8496.9	1.4	**40.2691**	0.406	1.0	ug/L	3	KED
	Y-1	89	65711.8	0.2				ug/L	64897	KED
	Rh-1	103	43000.6	0.7				ug/L	44712	KED
|	Cd -2	111	24946.8	1.7	**40.4643**	0.869	2.1	ug/L	4	KED
|	Cd -3	114	66222.5	0.6	**40.8152**	0.397	1.0	ug/L	8	KED
|>	Sc	45	739217.3	1.8				ug/L	772316	Standard
|>	Ge	72	458960.1	2.0				ug/L	431846	Standard
|>	In	115	431566.5	0.7				ug/L	412957	Standard
|>	Tb	159	585935.5	1.0				ug/L	554761	Standard
|>	Ge-1	72	30025.9	0.6				ug/L	30473	KED
|>	In-1	115	42600.6	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	102.979	
|	Cr -1	53	105.766	
|	Ni	58	100.686	
|	Ni -1	60	98.537	
|	Ni -2	62	92.757	
|	Cu	63	98.074	
|	Cu -1	65	97.608	
|	Zn	66	101.135	
|	Zn -1	67	104.848	
|	Zn -2	68	101.716	
|	As	75	106.762	
|	As-1	75	104.387	
|	Se	77	108.306	
|	Se -1	78	109.174	
|	Br	79		
|	Se -2	82	104.685	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	104.788	
|	Cd -1	114	103.832	
|	Ho	165		
|	Pb	208	99.830	
|	Bi	209		
|	Th	232		
|	Cr -2	52	99.856	
|	Cr -3	53	99.391	
|	Ni -3	58	99.149	
|	Ni -4	60	99.491	
|	Ni -5	62	98.669	
|	Cu -2	63	98.142	
|	Cu -3	65	98.745	
|	Zn -3	66	104.946	
|	Zn -4	67	99.672	
|	Zn -5	68	102.387	
|	As-2	75	100.673	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	101.161	
|	Cd -3	114	102.038	
| >	Sc	45		95.714
| >	Ge	72		106.279
| >	In	115		104.506
| >	Tb	159		105.620
| >	Ge-1	72		98.531
| >	In-1	115		100.400

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 31, 2024 14:59:38
Report Date/Time: Friday, May 31, 2024 15:02:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 7.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	483658.0	1.1	**19.4906**	0.171	0.9	ug/L	23728	Standard
|	Cr -1	53	57264.2	1.0	**19.8822**	0.247	1.2	ug/L	4227	Standard
|	Ni	58	234364.8	1.5	**19.7185**	0.130	0.7	ug/L	-9347	Standard
|	Ni -1	60	94691.2	1.2	**19.0689**	0.033	0.2	ug/L	242	Standard
|	Ni -2	62	14920.1	1.6	**17.9378**	0.216	1.2	ug/L	1958	Standard
|	Cu	63	209281.6	0.9	**19.0990**	0.072	0.4	ug/L	2502	Standard
|	Cu -1	65	95213.9	0.2	**18.8571**	0.186	1.0	ug/L	483	Standard
|	Zn	66	53145.4	2.3	**19.9281**	0.249	1.3	ug/L	770	Standard
|	Zn -1	67	9144.9	2.0	**20.4486**	0.419	2.1	ug/L	161	Standard
|	Zn -2	68	37847.1	2.5	**19.8465**	0.271	1.4	ug/L	754	Standard
|	As	75	62079.7	0.9	**20.3242**	0.097	0.5	ug/L	12256	Standard
|	As-1	75	50728.4	1.5	**20.1890**	0.069	0.3	ug/L	25	Standard
|	Se	77	3469.1	2.2	**20.7924**	0.240	1.2	ug/L	145	Standard
|	Se -1	78	23023.5	1.0	**20.1748**	0.482	2.4	ug/L	12291	Standard
|	Br	79	707.0	3.6				ug/L	304	Standard
|	Se -2	82	4614.1	3.0	**20.3279**	0.379	1.9	ug/L	42	Standard
	Kr	83	26.0	10.2				ug/L	36	Standard
	Y	89	654727.3	1.5				ug/L	618386	Standard
|	Rh	103	115914.4	1.2				ug/L	111544	Standard
|	Cd	111	62333.4	1.1	**20.4232**	0.034	0.2	ug/L	192	Standard
|	Cd -1	114	156414.1	1.2	**20.1598**	0.172	0.9	ug/L	23	Standard
|	Ho	165	544550.0	1.0				ug/L	521140	Standard
|	Pb	208	736216.3	1.3	**19.6486**	0.235	1.2	ug/L	518	Standard
|	Bi	209	303443.9	0.4				ug/L	295516	Standard
|	Th	232	377456.9	1.0				ug/L	378918	Standard
|	Cr -2	52	45025.2	1.3	**19.8759**	0.328	1.7	ug/L	283	KED
|	Cr -3	53	5674.1	0.8	**19.8856**	0.103	0.5	ug/L	38	KED
|	Ni -3	58	52723.8	0.8	**19.7708**	0.027	0.1	ug/L	148	KED
|	Ni -4	60	23347.1	0.4	**20.1792**	0.065	0.3	ug/L	58	KED
|	Ni -5	62	3465.8	1.7	**19.9248**	0.226	1.1	ug/L	12	KED
|	Cu -2	63	57972.1	0.6	**19.7468**	0.249	1.3	ug/L	287	KED
|	Cu -3	65	27105.7	1.3	**19.6294**	0.348	1.8	ug/L	136	KED
|	Zn -3	66	6436.4	1.3	**20.9399**	0.398	1.9	ug/L	93	KED
|	Zn -4	67	1065.0	6.5	**20.7055**	1.279	6.2	ug/L	15	KED
|	Zn -5	68	4720.8	2.0	**20.1867**	0.537	2.7	ug/L	68	KED
|	As-2	75	4248.3	2.3	**19.9412**	0.553	2.8	ug/L	3	KED
	Y-1	89	66263.7	0.6				ug/L	64897	KED
	Rh-1	103	44239.7	0.1				ug/L	44712	KED
|	Cd -2	111	12262.6	1.4	**19.7287**	0.301	1.5	ug/L	4	KED
|	Cd -3	114	32564.4	0.9	**19.9052**	0.110	0.6	ug/L	8	KED
|>	Sc	45	757437.6	0.7				ug/L	772316	Standard
|>	Ge	72	460512.1	1.2				ug/L	431846	Standard
|>	In	115	434196.1	1.0				ug/L	412957	Standard
|>	Tb	159	571371.4	0.5				ug/L	554761	Standard
|>	Ge-1	72	30310.5	0.6				ug/L	30473	KED
|>	In-1	115	42910.6	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	97.453	
|	Cr -1	53	99.411	
|	Ni	58	98.593	
|	Ni -1	60	95.344	
|	Ni -2	62	89.689	
|	Cu	63	95.495	
|	Cu -1	65	94.285	
|	Zn	66	99.640	
|	Zn -1	67	102.243	
|	Zn -2	68	99.232	
|	As	75	101.621	
|	As-1	75	100.945	
|	Se	77	103.962	
|	Se -1	78	100.874	
|	Br	79		
|	Se -2	82	101.639	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	102.116	
|	Cd -1	114	100.799	
|	Ho	165		
|	Pb	208	98.243	
|	Bi	209		
|	Th	232		
|	Cr -2	52	99.380	
|	Cr -3	53	99.428	
|	Ni -3	58	98.854	
|	Ni -4	60	100.896	
|	Ni -5	62	99.624	
|	Cu -2	63	98.734	
|	Cu -3	65	98.147	
|	Zn -3	66	104.699	
|	Zn -4	67	103.527	
|	Zn -5	68	100.933	
|	As-2	75	99.706	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	98.644	
|	Cd -3	114	99.526	
| >	Sc	45		98.074
| >	Ge	72		106.638
| >	In	115		105.143
| >	Tb	159		102.994
| >	Ge-1	72		99.465
| >	In-1	115		101.131

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, May 31, 2024 15:05:20
Report Date/Time: Friday, May 31, 2024 15:08:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 8.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	20323.8	0.5	-0.0397	0.016	41.4	ug/L	23728	Standard
|	Cr -1	53	2960.6	2.5	-0.2238	0.047	21.0	ug/L	4227	Standard
|	Ni	58	-5841.1	3.8	0.1155	0.015	13.4	ug/L	-9347	Standard
|	Ni -1	60	238.0	6.0	0.0301	0.004	12.9	ug/L	242	Standard
|	Ni -2	62	1529.7	3.1	-0.3416	0.105	30.8	ug/L	1958	Standard
|	Cu	63	2018.8	1.9	0.0265	0.007	27.1	ug/L	2502	Standard
|	Cu -1	65	478.3	2.4	0.0688	0.003	4.5	ug/L	483	Standard
|	Zn	66	792.4	6.7	-0.0264	0.024	91.7	ug/L	770	Standard
|	Zn -1	67	154.7	7.8	-0.0994	0.027	27.5	ug/L	161	Standard
|	Zn -2	68	743.0	8.4	-0.0016	0.035	2200.5	ug/L	754	Standard
|	As	75	12438.4	1.7	-0.1905	0.012	6.4	ug/L	12256	Standard
|	As-1	75	10.5	511.1	-0.0135	0.022	165.6	ug/L	25	Standard
|	Se	77	116.3	8.1	-0.2624	0.049	18.5	ug/L	145	Standard
|	Se -1	78	12482.8	1.3	0.2334	0.175	75.0	ug/L	12291	Standard
|	Br	79	558.0	2.5				ug/L	304	Standard
|	Se -2	82	40.0	7.5	0.0555	0.015	27.0	ug/L	42	Standard
	Kr	83	29.3	9.8				ug/L	36	Standard
	Y	89	623759.3	0.6				ug/L	618386	Standard
|	Rh	103	111868.3	0.4				ug/L	111544	Standard
|	Cd	111	250.0	2.1	-0.0046	0.002	54.1	ug/L	192	Standard
|	Cd -1	114	27.7	17.0	-0.0228	0.001	2.9	ug/L	23	Standard
|	Ho	165	520812.9	1.0				ug/L	521140	Standard
|	Pb	208	606.0	1.4	-0.0202	0.000	2.4	ug/L	518	Standard
|	Bi	209	288666.7	2.4				ug/L	295516	Standard
|	Th	232	358074.2	2.0				ug/L	378918	Standard
|	Cr -2	52	271.0	2.2	0.0006	0.003	501.4	ug/L	283	KED
|	Cr -3	53	34.0	25.6	-0.0206	0.032	156.3	ug/L	38	KED
|	Ni -3	58	115.1	6.2	0.0088	0.003	31.2	ug/L	148	KED
|	Ni -4	60	47.3	17.1	-0.0035	0.007	212.4	ug/L	58	KED
|	Ni -5	62	7.0	37.8	0.0171	0.016	91.6	ug/L	12	KED
|	Cu -2	63	279.3	5.2	0.0481	0.006	11.9	ug/L	287	KED
|	Cu -3	65	131.0	5.5	0.0674	0.006	8.4	ug/L	136	KED
|	Zn -3	66	94.0	1.1	-0.0463	0.003	6.1	ug/L	93	KED
|	Zn -4	67	15.0	60.0	-0.0461	0.186	403.3	ug/L	15	KED
|	Zn -5	68	71.7	11.2	0.0259	0.035	136.1	ug/L	68	KED
|	As-2	75	4.7	44.6	0.0117	0.010	87.8	ug/L	3	KED
	Y-1	89	62569.1	0.4				ug/L	64897	KED
	Rh-1	103	41605.5	0.3				ug/L	44712	KED
|	Cd -2	111	3.7	56.8	-0.0285	0.003	12.2	ug/L	4	KED
|	Cd -3	114	10.3	29.6	-0.0334	0.002	5.9	ug/L	8	KED
|>	Sc	45	716852.0	1.6				ug/L	772316	Standard
|>	Ge	72	436262.9	1.8				ug/L	431846	Standard
|>	In	115	413554.0	0.8				ug/L	412957	Standard
|>	Tb	159	557686.5	1.6				ug/L	554761	Standard
|>	Ge-1	72	28845.4	1.1				ug/L	30473	KED
|>	In-1	115	40651.4	1.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.819
| >	Ge	72		101.023
| >	In	115		100.145
| >	Tb	159		100.527
| >	Ge-1	72		94.658
| >	In-1	115		95.806

Dataset Report

6-1-24
ICPMS

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\
Report Date/Time: Saturday, June 01, 2024 15:36:21

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	12:10:25 Sat 01-Ju	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 1	12:14:16 Sat 01-Ju	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 2	12:18:06 Sat 01-Ju	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Blank	12:21:32 Sat 01-Ju	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 1	12:25:22 Sat 01-Ju	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 2	12:29:12 Sat 01-Ju	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 3	12:33:02 Sat 01-Ju	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 4	12:36:52 Sat 01-Ju	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 5	12:40:42 Sat 01-Ju	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 6	12:44:33 Sat 01-Ju	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 7	12:48:23 Sat 01-Ju	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 1	12:53:03 Sat 01-Ju	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 2	12:57:44 Sat 01-Ju	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	13:01:35 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	13:06:16 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	13:10:56 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	MB0601WH1 2X	13:20:40 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	SB0601WH1 2X	13:25:20 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05b 2X	13:30:44 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bD 2X	13:44:29 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bL 10X	13:49:07 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bMS 2X	13:53:47 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bMSD 2X	14:03:54 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bPS 2X	14:08:34 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-426-01 5X	14:13:14 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-410-01a 5X	14:17:54 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	14:32:01 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	14:36:41 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	14:41:21 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-01c 5X	14:46:57 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-02c 5X	14:51:37 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-01b 10X 29WM	14:56:16 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-02b 10X	15:00:56 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-03b 10X	15:05:35 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-04c 10X	15:10:14 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-05c 10X	15:14:53 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-03c 10X FFD	15:19:32 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	15:24:12 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	15:28:53 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	15:33:34 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, May 31, 2024 07:00:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\05MAY24\Y240531A\[STD] Performance Check.003
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	60966.2	60966.226	664.149	1.1	Standard
	In	114.9	372756.9	372756.943	307.370	0.1	Standard
	U	238.1	395564.4	395564.394	3631.895	0.9	Standard
Ce	CeO	155.9	11058.3	0.024	0.000	2.0	Standard
Ce	Ce++	70.0	12977.2	0.029	0.000	0.5	Standard
	Bkgd	220.5	0.4	0.400	0.253	63.2	Standard
	Ce	139.9	452141.0	452140.981	1713.129	0.4	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
1.00	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
1.00	Ammonia DRC - DRC Mode NEB
2.00	Ammonia DRC - Hyperskimmer Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Helium KED - Hyperskimmer Park Voltage
5.00	Helium KED - OmniRing Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:00:04 Fri 31-May-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	6.975	1222	2062	0.696	
Mg	23.985	23.975	4579	2063	0.715	
In	114.904	114.875	22592	2066	0.719	
Pb	207.977	207.975	41052	2066	0.719	
U	238.050	238.075	47019	2067	0.724	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Cr	51.941	Weighted Linear	0.03	-0.00	0.999593
Cr -1	52.941	Weighted Linear	0.00	-0.00	0.998856
Ni	57.935	Weighted Linear	0.03	0.01	0.999330
Ni -1	59.933	Weighted Linear	0.01	-0.00	0.998532
Ni -2	61.928	Weighted Linear	0.00	-0.00	0.997156
Cu	62.930	Weighted Linear	0.02	-0.00	0.998239
Cu -1	64.928	Weighted Linear	0.01	-0.00	0.998509
Zn	65.926	Weighted Linear	0.01	0.00	0.998793
Zn -1	66.927	Weighted Linear	0.00	0.00	0.998483
Zn -2	67.925	Weighted Linear	0.00	-0.00	0.999251
As	74.922	Weighted Linear	0.01	0.00	0.999172
As-1	74.922	Weighted Linear	0.01	0.00	0.998848
Se	76.920	Weighted Linear	0.00	0.00	0.999796
Se -1	77.917	Weighted Linear	0.00	-0.00	0.999029
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	-0.00	0.999418
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Cd	110.904	Weighted Linear	0.01	0.00	0.998556
Cd -1	113.904	Weighted Linear	0.02	0.00	0.998819
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.07	0.00	0.998870
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Cr -2	51.941	Weighted Linear	0.07	0.00	0.999112
Cr -3	52.941	Weighted Linear	0.01	0.00	0.997333
Ni -3	57.935	Weighted Linear	0.09	-0.00	0.998625
Ni -4	59.933	Weighted Linear	0.04	-0.00	0.999076
Ni -5	61.928	Weighted Linear	0.01	-0.00	0.997681
Cu -2	62.930	Weighted Linear	0.10	-0.00	0.998337
Cu -3	64.928	Weighted Linear	0.05	-0.00	0.998050
Zn -3	65.926	Weighted Linear	0.01	0.00	0.998330
Zn -4	66.927	Weighted Linear	0.00	0.00	0.999388
Zn -5	67.925	Weighted Linear	0.01	0.00	0.999687
As-2	74.922	Weighted Linear	0.01	-0.00	0.998560
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Cd -2	110.904	Weighted Linear	0.01	0.00	0.998664
Cd -3	113.904	Weighted Linear	0.04	0.00	0.998593
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, June 01, 2024 12:21:32
Report Date/Time: Saturday, June 01, 2024 12:23:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Blank.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-4072.8	1.8				ug/L		Standard
|	Ni -1	60	154.7	3.3				ug/L		Standard
|	Ni -2	62	26155.3	0.8				ug/L		Standard
|	Cu	63	25401.9	0.4				ug/L		Standard
|	Cu -1	65	478.7	4.6				ug/L		Standard
|	Zn	66	604.0	2.7				ug/L		Standard
|	Zn -1	67	114.7	22.4				ug/L		Standard
|	Zn -2	68	604.7	3.9				ug/L		Standard
|	As	75	12853.4	1.4				ug/L		Standard
|	As-1	75	-4.3	1646.4				ug/L		Standard
|	Se	77	98.0	6.2				ug/L		Standard
|	Se -1	78	12897.5	1.4				ug/L		Standard
|	Br	79	2837.6	0.4				ug/L		Standard
|	Se -2	82	34.7	8.8				ug/L		Standard
	Kr	83	29.0	21.0				ug/L		Standard
	Y	89	601935.1	3.1				ug/L		Standard
|	Rh	103	108501.6	2.2				ug/L		Standard
|	Ni -3	58	68.2	32.3				ug/L		KED
|	Ni -4	60	29.7	19.8				ug/L		KED
|	Ni -5	62	8.7	24.0				ug/L		KED
|	Cu -2	63	172.0	8.0				ug/L		KED
|	Cu -3	65	88.7	7.3				ug/L		KED
|	Zn -3	66	64.7	12.0				ug/L		KED
|	Zn -4	67	10.3	29.6				ug/L		KED
|	Zn -5	68	39.3	11.5				ug/L		KED
|	As-2	75	0.7	86.6				ug/L		KED
	Y-1	89	50921.3	0.5				ug/L		KED
	Rh-1	103	32421.1	0.7				ug/L		KED
|>	Ge	72	400119.8	1.2				ug/L		Standard
|>	In	115	376660.2	1.8				ug/L		Standard
|>	Ge-1	72	21869.7	2.1				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, June 01, 2024 12:25:22
Report Date/Time: Saturday, June 01, 2024 12:27:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 1.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-1891.2	5.7				ug/L	-4073	Standard
|	Ni -1	60	911.0	5.0				ug/L	155	Standard
|	Ni -2	62	22479.7	1.6				ug/L	26155	Standard
|	Cu	63	22631.9	0.7				ug/L	25402	Standard
|	Cu -1	65	1021.0	4.9				ug/L	479	Standard
|	Zn	66	683.7	3.3				ug/L	604	Standard
|	Zn -1	67	138.0	1.3				ug/L	115	Standard
|	Zn -2	68	660.0	1.4				ug/L	605	Standard
|	As	75	13367.7	2.0				ug/L	12853	Standard
|	As-1	75	465.9	26.8				ug/L	-4	Standard
|	Se	77	122.0	6.7				ug/L	98	Standard
|	Se -1	78	13041.3	1.2				ug/L	12897	Standard
|	Br	79	2420.9	1.3				ug/L	2838	Standard
|	Se -2	82	74.0	12.2				ug/L	35	Standard
	Kr	83	37.3	1.5				ug/L	29	Standard
	Y	89	593135.5	2.2				ug/L	601935	Standard
|	Rh	103	105591.5	1.3				ug/L	108502	Standard
|	Ni -3	58	382.7	5.4				ug/L	68	KED
|	Ni -4	60	166.7	8.1				ug/L	30	KED
|	Ni -5	62	34.7	10.1				ug/L	9	KED
|	Cu -2	63	472.0	7.9				ug/L	172	KED
|	Cu -3	65	209.3	5.2				ug/L	89	KED
|	Zn -3	66	64.3	15.9				ug/L	65	KED
|	Zn -4	67	8.3	30.2				ug/L	10	KED
|	Zn -5	68	53.7	13.1				ug/L	39	KED
|	As-2	75	31.3	19.2				ug/L	1	KED
	Y-1	89	50095.0	1.0				ug/L	50921	KED
	Rh-1	103	31722.9	0.9				ug/L	32421	KED
|>	Ge	72	392265.2	2.4				ug/L	400120	Standard
|>	In	115	362245.3	1.3				ug/L	376660	Standard
|>	Ge-1	72	21426.4	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, June 01, 2024 12:29:12
Report Date/Time: Saturday, June 01, 2024 12:31:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 2.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	649.0	11.8				ug/L	-4073	Standard
|	Ni -1	60	1949.1	1.6				ug/L	155	Standard
|	Ni -2	62	21086.9	0.1				ug/L	26155	Standard
|	Cu	63	23373.1	1.7				ug/L	25402	Standard
|	Cu -1	65	2086.2	3.7				ug/L	479	Standard
|	Zn	66	1313.7	0.9				ug/L	604	Standard
|	Zn -1	67	233.3	2.2				ug/L	115	Standard
|	Zn -2	68	1066.7	3.8				ug/L	605	Standard
|	As	75	13801.9	1.6				ug/L	12853	Standard
|	As-1	75	1028.6	6.0	**0.5000**	0.025	5.0	ug/L	-4	Standard
|	Se	77	165.3	4.0				ug/L	98	Standard
|	Se -1	78	13053.0	1.5				ug/L	12897	Standard
|	Br	79	2311.5	1.3				ug/L	2838	Standard
|	Se -2	82	129.0	9.9				ug/L	35	Standard
	Kr	83	32.3	17.9				ug/L	29	Standard
	Y	89	606163.9	2.1				ug/L	601935	Standard
|	Rh	103	109003.4	2.2				ug/L	108502	Standard
|	Ni -3	58	844.8	2.7				ug/L	68	KED
|	Ni -4	60	365.0	1.7				ug/L	30	KED
|	Ni -5	62	53.3	7.1				ug/L	9	KED
|	Cu -2	63	968.4	1.0				ug/L	172	KED
|	Cu -3	65	459.3	2.3				ug/L	89	KED
|	Zn -3	66	116.7	7.1				ug/L	65	KED
|	Zn -4	67	21.7	29.7				ug/L	10	KED
|	Zn -5	68	100.7	5.0				ug/L	39	KED
|	As-2	75	75.3	10.1				ug/L	1	KED
	Y-1	89	51179.9	1.3				ug/L	50921	KED
	Rh-1	103	32490.2	1.1				ug/L	32421	KED
|>	Ge	72	396759.0	1.8				ug/L	400120	Standard
|>	In	115	370336.1	1.7				ug/L	376660	Standard
|>	Ge-1	72	21702.8	2.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82
	Kr	83
	Y	89
	Rh	103
	Ni -3	58
	Ni -4	60
	Ni -5	62
	Cu -2	63
	Cu -3	65
	Zn -3	66
	Zn -4	67
	Zn -5	68
	As-2	75
	Y-1	89
	Rh-1	103
>	Ge	72
>	In	115
>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Saturday, June 01, 2024 12:33:02
Report Date/Time: Saturday, June 01, 2024 12:35:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 3.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	16350.4	4.0				ug/L	-4073	Standard
|	**Ni -1**	60	8442.2	1.4	**2.0000**	0.024	1.2	ug/L	155	Standard
|	**Ni -2**	62	23232.9	0.8	**2.0000**	0.266	13.3	ug/L	26155	Standard
|	**Cu**	63	39178.3	1.5	**2.0000**	0.062	3.1	ug/L	25402	Standard
|	**Cu -1**	65	8770.7	0.9	**2.0000**	0.036	1.8	ug/L	479	Standard
|	**Zn**	66	5127.6	1.6				ug/L	604	Standard
|	**Zn -1**	67	857.4	1.5				ug/L	115	Standard
|	**Zn -2**	68	3862.5	1.8				ug/L	605	Standard
|	**As**	75	17765.6	1.1	**2.0000**	0.123	6.2	ug/L	12853	Standard
|	**As-1**	75	4966.4	2.5	**2.1255**	0.036	1.7	ug/L	-4	Standard
|	**Se**	77	406.3	4.5	**2.0000**	0.137	6.9	ug/L	98	Standard
|	**Se -1**	78	13944.5	0.9				ug/L	12897	Standard
|	**Br**	79	2346.9	1.4				ug/L	2838	Standard
|	**Se -2**	82	470.0	8.1	**2.0000**	0.133	6.7	ug/L	35	Standard
	Kr	83	31.3	12.1				ug/L	29	Standard
	Y	89	618871.3	2.4				ug/L	601935	Standard
|	**Rh**	103	110548.3	2.7				ug/L	108502	Standard
|	**Ni -3**	58	3758.9	3.0	**2.0000**	0.060	3.0	ug/L	68	KED
|	**Ni -4**	60	1699.8	1.8	**2.0000**	0.055	2.8	ug/L	30	KED
|	**Ni -5**	62	255.0	7.6	**2.0000**	0.129	6.5	ug/L	9	KED
|	**Cu -2**	63	4311.3	0.8	**2.0000**	0.035	1.8	ug/L	172	KED
|	**Cu -3**	65	2018.5	1.6	**2.0000**	0.031	1.6	ug/L	89	KED
|	**Zn -3**	66	497.3	1.7				ug/L	65	KED
|	**Zn -4**	67	84.7	3.0				ug/L	10	KED
|	**Zn -5**	68	388.3	6.6				ug/L	39	KED
|	**As-2**	75	342.0	4.1	**2.0000**	0.060	3.0	ug/L	1	KED
	Y-1	89	52806.8	1.0				ug/L	50921	KED
	Rh-1	103	33753.5	0.6				ug/L	32421	KED
| >	**Ge**	72	409168.0	1.7				ug/L	400120	Standard
| >	**In**	115	377709.0	2.3				ug/L	376660	Standard
| >	**Ge-1**	72	22511.4	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82
	Kr	83
	Y	89
	Rh	103
	Ni -3	58
	Ni -4	60
	Ni -5	62
	Cu -2	63
	Cu -3	65
	Zn -3	66
	Zn -4	67
	Zn -5	68
	As-2	75
	Y-1	89
	Rh-1	103
>	Ge	72
>	In	115
>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Saturday, June 01, 2024 12:36:52
Report Date/Time: Saturday, June 01, 2024 12:39:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 4.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	41433.7	1.3	**5.0000**	0.056	1.1	ug/L	-4073	Standard
|	**Ni -1**	60	18427.2	2.3	**4.7528**	0.016	0.3	ug/L	155	Standard
|	**Ni -2**	62	25155.1	1.1	**4.8168**	0.658	13.7	ug/L	26155	Standard
|	**Cu**	63	62256.4	0.9	**4.7601**	0.099	2.1	ug/L	25402	Standard
|	**Cu -1**	65	19255.6	1.9	**4.7758**	0.045	0.9	ug/L	479	Standard
|	**Zn**	66	11003.6	2.8	**5.0000**	0.033	0.7	ug/L	604	Standard
|	**Zn -1**	67	1811.4	3.4	**5.0000**	0.224	4.5	ug/L	115	Standard
|	**Zn -2**	68	7974.6	3.1	**5.0000**	0.082	1.6	ug/L	605	Standard
|	**As**	75	23458.3	2.1	**4.8563**	0.064	1.3	ug/L	12853	Standard
|	**As-1**	75	10620.7	1.7	**4.8079**	0.030	0.6	ug/L	-4	Standard
|	**Se**	77	759.0	2.1	**4.7180**	0.160	3.4	ug/L	98	Standard
|	**Se -1**	78	15198.1	2.0	**5.0000**	0.335	6.7	ug/L	12897	Standard
|	**Br**	79	2323.5	1.0				ug/L	2838	Standard
|	**Se -2**	82	948.7	1.0	**4.6586**	0.155	3.3	ug/L	35	Standard
	Kr	83	30.7	34.6				ug/L	29	Standard
	Y	89	590427.1	1.3				ug/L	601935	Standard
|	**Rh**	103	106754.6	3.0				ug/L	108502	Standard
|	**Ni -3**	58	8363.9	1.2	**4.7774**	0.061	1.3	ug/L	68	KED
|	**Ni -4**	60	3589.5	1.6	**4.6531**	0.085	1.8	ug/L	30	KED
|	**Ni -5**	62	537.0	9.8	**4.6407**	0.455	9.8	ug/L	9	KED
|	**Cu -2**	63	9195.6	1.2	**4.6890**	0.042	0.9	ug/L	172	KED
|	**Cu -3**	65	4429.7	0.5	**4.7531**	0.013	0.3	ug/L	89	KED
|	**Zn -3**	66	1073.0	4.5	**5.0000**	0.236	4.7	ug/L	65	KED
|	**Zn -4**	67	186.0	12.9	**5.0000**	0.703	14.1	ug/L	10	KED
|	**Zn -5**	68	818.4	2.3	**5.0000**	0.146	2.9	ug/L	39	KED
|	**As-2**	75	751.0	3.7	**4.7444**	0.187	3.9	ug/L	1	KED
	Y-1	89	51637.2	0.9				ug/L	50921	KED
	Rh-1	103	32882.5	1.0				ug/L	32421	KED
| >	**Ge**	72	399362.0	2.3				ug/L	400120	Standard
| >	**In**	115	370851.8	1.8				ug/L	376660	Standard
| >	**Ge-1**	72	22056.3	0.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82
	Kr	83
	Y	89
	Rh	103
	Ni -3	58
	Ni -4	60
	Ni -5	62
	Cu -2	63
	Cu -3	65
	Zn -3	66
	Zn -4	67
	Zn -5	68
	As-2	75
	Y-1	89
	Rh-1	103
>	Ge	72
>	In	115
>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Saturday, June 01, 2024 12:40:42
Report Date/Time: Saturday, June 01, 2024 12:43:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 5.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	205007.3	1.9	**20.8134**	0.449	2.2	ug/L	-4073	Standard
|	Ni -1	60	83765.3	2.5	**20.4075**	0.311	1.5	ug/L	155	Standard
|	Ni -2	62	35368.1	1.7	**16.2652**	0.968	6.0	ug/L	26155	Standard
|	Cu	63	208841.5	2.1	**19.9439**	0.378	1.9	ug/L	25402	Standard
|	Cu -1	65	86946.5	2.3	**20.4149**	0.318	1.6	ug/L	479	Standard
|	Zn	66	48891.2	3.3	**20.7403**	0.262	1.3	ug/L	604	Standard
|	Zn -1	67	8140.7	3.5	**20.8497**	0.058	0.3	ug/L	115	Standard
|	Zn -2	68	35072.4	4.3	**20.8195**	0.246	1.2	ug/L	605	Standard
|	As	75	60836.7	3.0	**20.3924**	0.187	0.9	ug/L	12853	Standard
|	As-1	75	48534.0	2.9	**20.6906**	0.216	1.0	ug/L	-4	Standard
|	Se	77	3323.1	3.4	**21.0891**	0.145	0.7	ug/L	98	Standard
|	Se -1	78	23102.0	2.9	**19.3937**	0.462	2.4	ug/L	12897	Standard
|	Br	79	2345.9	3.5				ug/L	2838	Standard
|	Se -2	82	4271.6	2.8	**20.3515**	0.591	2.9	ug/L	35	Standard
	Kr	83	28.3	27.0				ug/L	29	Standard
	Y	89	617573.7	2.3				ug/L	601935	Standard
|	Rh	103	112569.2	1.9				ug/L	108502	Standard
|	Ni -3	58	37768.8	2.6	**20.0312**	0.447	2.2	ug/L	68	KED
|	Ni -4	60	16507.9	1.8	**19.9218**	0.310	1.6	ug/L	30	KED
|	Ni -5	62	2498.2	1.4	**19.9998**	0.321	1.6	ug/L	9	KED
|	Cu -2	63	42190.6	2.0	**20.0277**	0.359	1.8	ug/L	172	KED
|	Cu -3	65	20019.7	0.9	**20.0047**	0.097	0.5	ug/L	89	KED
|	Zn -3	66	5030.9	2.7	**20.8720**	0.469	2.2	ug/L	65	KED
|	Zn -4	67	836.0	5.5	**20.5852**	1.187	5.8	ug/L	10	KED
|	Zn -5	68	3712.8	1.6	**20.7765**	0.233	1.1	ug/L	39	KED
|	As-2	75	3362.1	2.7	**19.8398**	0.620	3.1	ug/L	1	KED
	Y-1	89	54210.7	0.2				ug/L	50921	KED
	Rh-1	103	34742.5	1.0				ug/L	32421	KED
|>	Ge	72	417498.6	3.3				ug/L	400120	Standard
|>	In	115	387879.7	1.3				ug/L	376660	Standard
|>	Ge-1	72	23705.0	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82
	Kr	83
	Y	89
	Rh	103
	Ni -3	58
	Ni -4	60
	Ni -5	62
	Cu -2	63
	Cu -3	65
	Zn -3	66
	Zn -4	67
	Zn -5	68
	As-2	75
	Y-1	89
	Rh-1	103
>	Ge	72
>	In	115
>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Saturday, June 01, 2024 12:44:33
Report Date/Time: Saturday, June 01, 2024 12:46:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 6.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	394222.8	2.3	**40.4541**	0.270	0.7	ug/L	-4073	Standard
|	**Ni -1**	60	160972.3	2.7	**40.2641**	0.143	0.4	ug/L	155	Standard
|	**Ni -2**	62	46922.6	1.2	**33.8621**	0.764	2.3	ug/L	26155	Standard
|	**Cu**	63	380134.3	2.1	**39.4468**	0.359	0.9	ug/L	25402	Standard
|	**Cu -1**	65	164751.8	3.1	**39.8900**	0.567	1.4	ug/L	479	Standard
|	**Zn**	66	92960.3	2.7	**40.4399**	0.420	1.0	ug/L	604	Standard
|	**Zn -1**	67	15425.7	1.9	**40.4926**	0.206	0.5	ug/L	115	Standard
|	**Zn -2**	68	66165.6	2.8	**40.4222**	0.233	0.6	ug/L	605	Standard
|	**As**	75	106560.2	1.8	**40.9667**	0.260	0.6	ug/L	12853	Standard
|	**As-1**	75	94218.9	1.6	**41.0187**	0.329	0.8	ug/L	-4	Standard
|	**Se**	77	6399.1	5.8	**41.6648**	1.551	3.7	ug/L	98	Standard
|	**Se -1**	78	33236.3	2.0	**40.6736**	0.759	1.9	ug/L	12897	Standard
|	**Br**	79	2363.5	4.3				ug/L	2838	Standard
|	**Se -2**	82	8248.0	1.6	**40.4307**	0.953	2.4	ug/L	35	Standard
	Kr	83	32.3	15.6				ug/L	29	Standard
	Y	89	602648.0	2.2				ug/L	601935	Standard
|	**Rh**	103	108959.1	2.5				ug/L	108502	Standard
|	**Ni -3**	58	70983.1	1.6	**39.8496**	0.306	0.8	ug/L	68	KED
|	**Ni -4**	60	31156.3	2.3	**39.8074**	0.306	0.8	ug/L	30	KED
|	**Ni -5**	62	4730.8	1.6	**40.0013**	0.500	1.2	ug/L	9	KED
|	**Cu -2**	63	78884.9	0.2	**39.7146**	0.647	1.6	ug/L	172	KED
|	**Cu -3**	65	37473.8	0.5	**39.7149**	0.929	2.3	ug/L	89	KED
|	**Zn -3**	66	9196.6	0.6	**40.2579**	0.792	2.0	ug/L	65	KED
|	**Zn -4**	67	1543.8	2.8	**40.2021**	1.865	4.6	ug/L	10	KED
|	**Zn -5**	68	6969.4	1.3	**40.8111**	0.636	1.6	ug/L	39	KED
|	**As-2**	75	6379.1	1.8	**39.8406**	0.189	0.5	ug/L	1	KED
	Y-1	89	52238.0	1.5				ug/L	50921	KED
	Rh-1	103	33559.7	2.3				ug/L	32421	KED
|>	**Ge**	72	405397.4	2.4				ug/L	400120	Standard
|>	**In**	115	378010.8	2.9				ug/L	376660	Standard
|>	**Ge-1**	72	22429.9	1.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Saturday, June 01, 2024 12:48:23
Report Date/Time: Saturday, June 01, 2024 12:50:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 7.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	872263.4	1.6	**97.1071**	1.576	1.6	ug/L	-4073	Standard
|	**Ni -1**	60	348527.0	1.7	**95.1976**	1.449	1.5	ug/L	155	Standard
|	**Ni -2**	62	75218.5	1.6	**82.7645**	1.535	1.9	ug/L	26155	Standard
|	**Cu**	63	795837.2	1.7	**93.3736**	1.280	1.4	ug/L	25402	Standard
|	**Cu -1**	65	352339.4	1.0	**93.6258**	0.561	0.6	ug/L	479	Standard
|	**Zn**	66	199103.2	1.9	**95.4824**	1.495	1.6	ug/L	604	Standard
|	**Zn -1**	67	33548.0	0.7	**96.5870**	0.690	0.7	ug/L	115	Standard
|	**Zn -2**	68	143553.3	2.4	**96.4309**	2.232	2.3	ug/L	605	Standard
|	**As**	75	217079.2	1.7	**97.3403**	1.393	1.4	ug/L	12853	Standard
|	**As-1**	75	206602.2	1.9	**97.4061**	1.498	1.5	ug/L	-4	Standard
|	**Se**	77	13584.8	2.3	**96.9197**	1.794	1.9	ug/L	98	Standard
|	**Se -1**	78	56731.8	1.9	**97.3209**	1.950	2.0	ug/L	12897	Standard
|	**Br**	79	2341.9	1.1				ug/L	2838	Standard
|	**Se -2**	82	18233.6	2.8	**97.1856**	2.382	2.5	ug/L	35	Standard
	Kr	83	35.3	36.1				ug/L	29	Standard
	Y	89	562417.5	1.3				ug/L	601935	Standard
|	**Rh**	103	101112.7	2.2				ug/L	108502	Standard
|	**Ni -3**	58	156586.8	1.3	**95.0426**	2.025	2.1	ug/L	68	KED
|	**Ni -4**	60	67808.6	1.5	**93.9785**	2.521	2.7	ug/L	30	KED
|	**Ni -5**	62	10291.7	2.0	**94.2804**	2.981	3.2	ug/L	9	KED
|	**Cu -2**	63	171015.0	1.5	**93.5266**	2.458	2.6	ug/L	172	KED
|	**Cu -3**	65	80810.9	0.9	**93.1304**	1.995	2.1	ug/L	89	KED
|	**Zn -3**	66	20084.8	1.2	**95.7338**	2.011	2.1	ug/L	65	KED
|	**Zn -4**	67	3263.7	1.6	**93.5364**	2.384	2.5	ug/L	10	KED
|	**Zn -5**	68	15116.0	0.7	**96.2705**	1.186	1.2	ug/L	39	KED
|	**As-2**	75	13993.2	0.5	**94.6081**	1.042	1.1	ug/L	1	KED
	Y-1	89	48435.0	0.3				ug/L	50921	KED
	Rh-1	103	31417.5	0.5				ug/L	32421	KED
| >	**Ge**	72	376753.1	0.5				ug/L	400120	Standard
| >	**In**	115	354342.9	1.6				ug/L	376660	Standard
| >	**Ge-1**	72	21062.9	1.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, June 01, 2024 12:53:03
Report Date/Time: Saturday, June 01, 2024 12:55:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	451674.1	2.1	**49.2633**	0.776	1.6	ug/L	-4073	Standard
|	**Ni -1**	60	183605.9	1.6	**48.9471**	0.399	0.8	ug/L	155	Standard
|	**Ni -2**	62	49239.4	1.0	**42.2734**	0.737	1.7	ug/L	26155	Standard
|	**Cu**	63	426238.6	1.5	**47.7774**	0.100	0.2	ug/L	25402	Standard
|	**Cu -1**	65	185561.4	2.0	**48.1122**	0.296	0.6	ug/L	479	Standard
|	**Zn**	66	106007.3	1.9	**49.5045**	0.230	0.5	ug/L	604	Standard
|	**Zn -1**	67	17722.7	2.1	**49.6847**	0.306	0.6	ug/L	115	Standard
|	**Zn -2**	68	75890.4	1.5	**49.5846**	0.066	0.1	ug/L	605	Standard
|	**As**	75	120812.9	1.8	**50.2635**	0.205	0.4	ug/L	12853	Standard
|	**As-1**	75	109568.2	1.8	**50.4207**	0.173	0.3	ug/L	-4	Standard
|	**Se**	77	7495.6	1.3	**51.9128**	0.108	0.2	ug/L	98	Standard
|	**Se -1**	78	36000.3	1.5	**50.4130**	0.226	0.4	ug/L	12897	Standard
|	**Br**	79	2079.2	1.4				ug/L	2838	Standard
|	**Se -2**	82	9767.0	1.3	**50.7418**	0.192	0.4	ug/L	35	Standard
	Kr	83	32.3	23.6				ug/L	29	Standard
	Y	89	583853.4	2.7				ug/L	601935	Standard
|	**Rh**	103	104101.8	3.0				ug/L	108502	Standard
|	**Ni -3**	58	79822.7	0.6	**48.5963**	0.219	0.5	ug/L	68	KED
|	**Ni -4**	60	34937.7	1.0	**48.5663**	0.402	0.8	ug/L	30	KED
|	**Ni -5**	62	5280.3	0.4	**48.5243**	0.368	0.8	ug/L	9	KED
|	**Cu -2**	63	88845.5	1.4	**48.7225**	0.464	1.0	ug/L	172	KED
|	**Cu -3**	65	41598.8	1.3	**48.0760**	0.604	1.3	ug/L	89	KED
|	**Zn -3**	66	10405.8	1.2	**49.6595**	0.311	0.6	ug/L	65	KED
|	**Zn -4**	67	1765.4	2.0	**50.6271**	0.777	1.5	ug/L	10	KED
|	**Zn -5**	68	7852.5	1.1	**50.0347**	0.821	1.6	ug/L	39	KED
|	**As-2**	75	7337.9	2.6	**49.7704**	1.537	3.1	ug/L	1	KED
	Y-1	89	49328.7	0.8				ug/L	50921	KED
	Rh-1	103	31633.7	1.3				ug/L	32421	KED
| >	**Ge**	72	385981.6	1.5				ug/L	400120	Standard
| >	**In**	115	363968.6	1.5				ug/L	376660	Standard
| >	**Ge-1**	72	20995.4	0.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	98.527	
|	Ni -1	60	97.894	
|	Ni -2	62	84.547	
|	Cu	63	95.555	
|	Cu -1	65	96.224	
|	Zn	66	99.009	
|	Zn -1	67	99.369	
|	Zn -2	68	99.169	
|	As	75	100.527	
|	As-1	75	100.841	
|	Se	77	103.826	
|	Se -1	78	100.826	
|	Br	79		

|	Se -2	82	101.484	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.193	
|	Ni -4	60	97.133	
|	Ni -5	62	97.049	
|	Cu -2	63	97.445	
|	Cu -3	65	96.152	
|	Zn -3	66	99.319	
|	Zn -4	67	101.254	
|	Zn -5	68	100.069	
|	As-2	75	99.541	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		96.467
| >	In	115		96.630
| >	Ge-1	72		96.002

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, June 01, 2024 12:57:44
Report Date/Time: Saturday, June 01, 2024 13:00:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3501.8	2.4	**-0.0051**	0.009	183.6	ug/L	-4073	Standard
|	**Ni -1**	60	168.3	11.7	**0.0336**	0.005	15.8	ug/L	155	Standard
|	**Ni -2**	62	19513.7	1.2	**-1.4875**	0.632	42.5	ug/L	26155	Standard
|	**Cu**	63	18006.3	0.8	**-0.0997**	0.036	35.9	ug/L	25402	Standard
|	**Cu -1**	65	458.3	3.4	**0.0846**	0.003	3.1	ug/L	479	Standard
|	**Zn**	66	643.3	6.0	**0.0550**	0.019	34.9	ug/L	604	Standard
|	**Zn -1**	67	107.3	1.4	**0.0565**	0.007	11.7	ug/L	115	Standard
|	**Zn -2**	68	645.0	1.2	**0.0546**	0.003	4.6	ug/L	605	Standard
|	**As**	75	12693.1	1.5	**0.0570**	0.038	66.3	ug/L	12853	Standard
|	**As-1**	75	52.3	20.4	**0.0193**	0.005	26.1	ug/L	-4	Standard
|	**Se**	77	87.0	10.0	**-0.0277**	0.061	220.3	ug/L	98	Standard
|	**Se -1**	78	12722.0	1.9	**0.5812**	0.217	37.3	ug/L	12897	Standard
|	**Br**	79	1872.5	2.0				ug/L	2838	Standard
|	**Se -2**	82	50.7	33.4	**0.0995**	0.084	84.6	ug/L	35	Standard
	Kr	83	28.3	16.7				ug/L	29	Standard
	Y	89	599543.2	3.3				ug/L	601935	Standard
|	**Rh**	103	107622.2	3.7				ug/L	108502	Standard
|	**Ni -3**	58	71.4	10.8	**0.0379**	0.004	10.7	ug/L	68	KED
|	**Ni -4**	60	32.0	18.8	**0.0422**	0.008	18.0	ug/L	30	KED
|	**Ni -5**	62	6.0	57.7	**0.0692**	0.031	44.4	ug/L	9	KED
|	**Cu -2**	63	190.0	6.7	**0.0781**	0.006	7.9	ug/L	172	KED
|	**Cu -3**	65	88.7	21.5	**0.0781**	0.023	29.1	ug/L	89	KED
|	**Zn -3**	66	71.0	18.4	**0.1441**	0.059	40.6	ug/L	65	KED
|	**Zn -4**	67	9.7	57.0	**0.0089**	0.155	1741.6	ug/L	10	KED
|	**Zn -5**	68	51.0	7.1	**0.0359**	0.025	70.9	ug/L	39	KED
|	**As-2**	75	3.0	33.3	**0.0162**	0.006	39.4	ug/L	1	KED
	Y-1	89	51022.3	1.3				ug/L	50921	KED
	Rh-1	103	32139.4	0.9				ug/L	32421	KED
|>	**Ge**	72	392763.8	1.1				ug/L	400120	Standard
|>	**In**	115	366837.7	2.9				ug/L	376660	Standard
|>	**Ge-1**	72	21500.2	1.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	98.162
| >	In	115	97.392
| >	Ge-1	72	98.310

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 13:01:35
Report Date/Time: Saturday, June 01, 2024 13:03:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	365531.7	1.3	**38.8806**	0.279	0.7	ug/L	-4073	Standard
|	**Ni -1**	60	150006.9	1.7	**38.9171**	0.112	0.3	ug/L	155	Standard
|	**Ni -2**	62	41066.6	0.9	**28.7778**	0.658	2.3	ug/L	26155	Standard
|	**Cu**	63	351572.7	2.0	**37.9229**	0.095	0.3	ug/L	25402	Standard
|	**Cu -1**	65	154798.6	0.9	**39.0614**	0.401	1.0	ug/L	479	Standard
|	**Zn**	66	87507.6	1.9	**39.7248**	0.042	0.1	ug/L	604	Standard
|	**Zn -1**	67	14543.7	2.5	**39.6310**	0.278	0.7	ug/L	115	Standard
|	**Zn -2**	68	62673.9	1.5	**39.7843**	0.434	1.1	ug/L	605	Standard
|	**As**	75	101250.3	0.7	**39.9514**	0.793	2.0	ug/L	12853	Standard
|	**As-1**	75	89280.3	0.8	**39.9924**	0.725	1.8	ug/L	-4	Standard
|	**Se**	77	6068.0	3.6	**40.7567**	0.714	1.8	ug/L	98	Standard
|	**Se -1**	78	32012.8	1.4	**40.1423**	0.369	0.9	ug/L	12897	Standard
|	**Br**	79	1875.5	1.1				ug/L	2838	Standard
|	**Se -2**	82	7911.9	2.0	**39.9675**	0.178	0.4	ug/L	35	Standard
	Kr	83	30.0	6.7				ug/L	29	Standard
	Y	89	606595.3	1.4				ug/L	601935	Standard
|	**Rh**	103	107870.9	2.1				ug/L	108502	Standard
|	**Ni -3**	58	67599.8	0.5	**39.8508**	0.441	1.1	ug/L	68	KED
|	**Ni -4**	60	29128.0	0.5	**39.2083**	0.460	1.2	ug/L	30	KED
|	**Ni -5**	62	4295.3	0.7	**38.2300**	0.876	2.3	ug/L	9	KED
|	**Cu -2**	63	74122.5	0.8	**39.3583**	0.575	1.5	ug/L	172	KED
|	**Cu -3**	65	35185.9	0.7	**39.3777**	0.903	2.3	ug/L	89	KED
|	**Zn -3**	66	8808.0	1.9	**40.6660**	0.409	1.0	ug/L	65	KED
|	**Zn -4**	67	1414.7	0.4	**39.2302**	0.606	1.5	ug/L	10	KED
|	**Zn -5**	68	6517.5	0.4	**40.1594**	0.822	2.0	ug/L	39	KED
|	**As-2**	75	6049.9	0.9	**39.7325**	0.710	1.8	ug/L	1	KED
	Y-1	89	51319.0	0.8				ug/L	50921	KED
	Rh-1	103	32542.7	0.9				ug/L	32421	KED
| >	**Ge**	72	396611.5	2.0				ug/L	400120	Standard
| >	**In**	115	372370.0	1.9				ug/L	376660	Standard
| >	**Ge-1**	72	21684.4	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	97.201	
|	Ni -1	60	97.293	
|	Ni -2	62	71.944	
|	Cu	63	94.807	
|	Cu -1	65	97.653	
|	Zn	66	99.312	
|	Zn -1	67	99.077	
|	Zn -2	68	99.461	
|	As	75	99.878	
|	As-1	75	99.981	
|	Se	77	101.892	
|	Se -1	78	100.356	
|	Br	79		

|	Se -2	82	99.919	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	99.627	
|	Ni -4	60	98.021	
|	Ni -5	62	95.575	
|	Cu -2	63	98.396	
|	Cu -3	65	98.444	
|	Zn -3	66	101.665	
|	Zn -4	67	98.075	
|	Zn -5	68	100.398	
|	As-2	75	99.331	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		99.123
| >	In	115		98.861
| >	Ge-1	72		99.153

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 13:06:16
Report Date/Time: Saturday, June 01, 2024 13:08:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	200828.6	1.4	**20.5640**	0.503	2.4	ug/L	-4073	Standard
|	**Ni -1**	60	82228.0	1.6	**20.3564**	0.423	2.1	ug/L	155	Standard
|	**Ni -2**	62	32288.8	1.0	**14.2593**	1.162	8.1	ug/L	26155	Standard
|	**Cu**	63	200814.3	0.9	**19.6904**	0.596	3.0	ug/L	25402	Standard
|	**Cu -1**	65	83569.1	1.4	**20.1104**	0.450	2.2	ug/L	479	Standard
|	**Zn**	66	47589.8	2.0	**20.5027**	0.406	2.0	ug/L	604	Standard
|	**Zn -1**	67	7950.2	2.1	**20.5645**	0.528	2.6	ug/L	115	Standard
|	**Zn -2**	68	33892.9	3.2	**20.3506**	0.221	1.1	ug/L	605	Standard
|	**As**	75	59971.8	2.1	**20.0902**	0.395	2.0	ug/L	12853	Standard
|	**As-1**	75	47745.8	2.6	**20.4031**	0.278	1.4	ug/L	-4	Standard
|	**Se**	77	3273.7	2.0	**20.6879**	0.509	2.5	ug/L	98	Standard
|	**Se -1**	78	23115.4	2.2	**19.6098**	1.462	7.5	ug/L	12897	Standard
|	**Br**	79	1881.1	1.3				ug/L	2838	Standard
|	**Se -2**	82	4307.0	1.5	**20.6912**	0.469	2.3	ug/L	35	Standard
	Kr	83	31.0	11.6				ug/L	29	Standard
	Y	89	622960.1	1.8				ug/L	601935	Standard
|	**Rh**	103	112496.6	1.7				ug/L	108502	Standard
|	**Ni -3**	58	36619.1	0.6	**20.3036**	0.062	0.3	ug/L	68	KED
|	**Ni -4**	60	16040.7	1.1	**20.3109**	0.364	1.8	ug/L	30	KED
|	**Ni -5**	62	2424.9	1.8	**20.3075**	0.481	2.4	ug/L	9	KED
|	**Cu -2**	63	40421.1	1.6	**20.1792**	0.457	2.3	ug/L	172	KED
|	**Cu -3**	65	19266.7	0.7	**20.2689**	0.181	0.9	ug/L	89	KED
|	**Zn -3**	66	4761.1	0.5	**20.5873**	0.154	0.7	ug/L	65	KED
|	**Zn -4**	67	767.4	1.2	**19.8868**	0.354	1.8	ug/L	10	KED
|	**Zn -5**	68	3592.5	0.5	**20.6834**	0.095	0.5	ug/L	39	KED
|	**As-2**	75	3216.4	1.5	**19.8654**	0.153	0.8	ug/L	1	KED
	Y-1	89	53651.6	0.5				ug/L	50921	KED
	Rh-1	103	34478.6	1.1				ug/L	32421	KED
| >	**Ge**	72	415731.2	3.7				ug/L	400120	Standard
| >	**In**	115	392312.1	1.6				ug/L	376660	Standard
| >	**Ge-1**	72	23050.6	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	102.820	
|	Ni -1	60	101.782	
|	Ni -2	62	71.296	
|	Cu	63	98.452	
|	Cu -1	65	100.552	
|	Zn	66	102.513	
|	Zn -1	67	102.823	
|	Zn -2	68	101.753	
|	As	75	100.451	
|	As-1	75	102.016	
|	Se	77	103.439	
|	Se -1	78	98.049	
|	Br	79		

|	Se -2	82	103.456	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	101.518	
|	Ni -4	60	101.554	
|	Ni -5	62	101.537	
|	Cu -2	63	100.896	
|	Cu -3	65	101.344	
|	Zn -3	66	102.937	
|	Zn -4	67	99.434	
|	Zn -5	68	103.417	
|	As-2	75	99.327	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		103.902
|>	In	115		104.155
|>	Ge-1	72		105.399

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 13:10:56
Report Date/Time: Saturday, June 01, 2024 13:13:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-3938.1	4.0	-0.0384	0.008	20.1	ug/L	-4073	Standard
|	Ni -1	60	168.3	10.2	0.0323	0.005	16.1	ug/L	155	Standard
|	Ni -2	62	19730.6	1.0	-2.0515	0.473	23.1	ug/L	26155	Standard
|	Cu	63	18496.0	0.5	-0.1090	0.049	45.4	ug/L	25402	Standard
|	Cu -1	65	475.3	6.4	0.0853	0.009	10.8	ug/L	479	Standard
|	Zn	66	712.0	5.4	0.0763	0.011	14.3	ug/L	604	Standard
|	Zn -1	67	121.3	10.5	0.0845	0.030	35.3	ug/L	115	Standard
|	Zn -2	68	675.3	1.0	0.0608	0.011	18.3	ug/L	605	Standard
|	As	75	12664.6	0.4	-0.1335	0.094	70.2	ug/L	12853	Standard
|	As-1	75	10.5	673.3	0.0005	0.031	6461.2	ug/L	-4	Standard
|	Se	77	80.3	18.7	-0.0905	0.103	113.6	ug/L	98	Standard
|	Se -1	78	12705.6	0.8	-0.2680	0.366	136.7	ug/L	12897	Standard
|	Br	79	1808.4	4.2				ug/L	2838	Standard
|	Se -2	82	39.0	18.5	0.0341	0.036	104.4	ug/L	35	Standard
	Kr	83	30.0	26.0				ug/L	29	Standard
	Y	89	611161.6	1.1				ug/L	601935	Standard
|	Rh	103	110678.8	1.5				ug/L	108502	Standard
|	Ni -3	58	80.5	7.3	0.0403	0.003	6.4	ug/L	68	KED
|	Ni -4	60	37.3	10.1	0.0464	0.006	11.9	ug/L	30	KED
|	Ni -5	62	7.3	61.5	0.0774	0.038	49.7	ug/L	9	KED
|	Cu -2	63	192.3	12.5	0.0731	0.013	18.0	ug/L	172	KED
|	Cu -3	65	91.7	7.9	0.0748	0.006	8.2	ug/L	89	KED
|	Zn -3	66	61.0	7.5	0.0797	0.016	20.4	ug/L	65	KED
|	Zn -4	67	11.3	48.6	0.0356	0.145	407.2	ug/L	10	KED
|	Zn -5	68	45.3	15.5	-0.0174	0.041	234.9	ug/L	39	KED
|	As-2	75	2.0	50.0	0.0088	0.006	71.2	ug/L	1	KED
	Y-1	89	53297.9	0.6				ug/L	50921	KED
	Rh-1	103	34427.4	0.7				ug/L	32421	KED
|>	Ge	72	405337.9	2.1				ug/L	400120	Standard
|>	In	115	388937.2	1.4				ug/L	376660	Standard
|>	Ge-1	72	22927.4	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	101.304
|>	In	115	103.259
|>	Ge-1	72	104.836

Quantitative Analysis - Summary Report

Sample ID: MB0601WH1 2X

Sample Date/Time: Saturday, June 01, 2024 13:20:40
Report Date/Time: Saturday, June 01, 2024 13:23:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\MB0601WH1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5520.9	1.2	**-0.3534**	0.008	2.2	ug/L	-4073	Standard
|	**Ni -1**	60	139.3	4.0	**0.0343**	0.002	5.1	ug/L	155	Standard
|	**Ni -2**	62	22491.4	0.4	**10.0796**	0.219	2.2	ug/L	26155	Standard
|	**Cu**	63	19519.0	0.5	**0.5851**	0.011	1.8	ug/L	25402	Standard
|	**Cu -1**	65	290.7	5.0	**0.0587**	0.005	7.7	ug/L	479	Standard
|	**Zn**	66	634.7	1.8	**0.1175**	0.007	6.1	ug/L	604	Standard
|	**Zn -1**	67	2978.6	1.7	**9.8800**	0.172	1.7	ug/L	115	Standard
|	**Zn -2**	68	890.7	1.1	**0.3444**	0.008	2.2	ug/L	605	Standard
|	**As**	75	11807.7	1.9	**0.8759**	0.115	13.2	ug/L	12853	Standard
|	**As-1**	75	140.6	142.0	**0.0736**	0.111	150.4	ug/L	-4	Standard
|	**Se**	77	6223.4	1.1	**51.9839**	0.643	1.2	ug/L	98	Standard
|	**Se -1**	78	11723.1	2.4	**4.0531**	0.695	17.1	ug/L	12897	Standard
|	**Br**	79	1794.1	4.1				ug/L	2838	Standard
|	**Se -2**	82	39.3	25.6	**0.0877**	0.063	71.8	ug/L	35	Standard
	Kr	83	45.7	18.6				ug/L	29	Standard
	Y	89	469983.7	2.5				ug/L	601935	Standard
|	**Rh**	103	82032.5	1.1				ug/L	108502	Standard
|	**Ni -3**	58	81.4	9.2	**0.0378**	0.004	10.7	ug/L	68	KED
|	**Ni -4**	60	33.0	10.5	**0.0380**	0.004	10.5	ug/L	30	KED
|	**Ni -5**	62	10.7	27.1	**0.0993**	0.022	22.5	ug/L	9	KED
|	**Cu -2**	63	142.3	9.6	**0.0431**	0.007	16.4	ug/L	172	KED
|	**Cu -3**	65	69.3	11.0	**0.0463**	0.008	17.4	ug/L	89	KED
|	**Zn -3**	66	70.7	16.3	**0.1011**	0.044	43.8	ug/L	65	KED
|	**Zn -4**	67	11.0	41.7	**0.0081**	0.115	1410.6	ug/L	10	KED
|	**Zn -5**	68	54.7	14.2	**0.0158**	0.043	270.3	ug/L	39	KED
|	**As-2**	75	10.3	24.4	**0.0562**	0.014	25.5	ug/L	1	KED
	Y-1	89	51483.9	0.8				ug/L	50921	KED
	Rh-1	103	36539.7	1.3				ug/L	32421	KED
\>	**Ge**	72	320032.0	0.2				ug/L	400120	Standard
\>	**In**	115	328843.6	1.3				ug/L	376660	Standard
\>	**Ge-1**	72	24583.5	1.1				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	79.984
| >	In	115	87.305
| >	Ge-1	72	112.409

Quantitative Analysis - Summary Report

Sample ID: SB0601WH1 2X

Sample Date/Time: Saturday, June 01, 2024 13:25:20
Report Date/Time: Saturday, June 01, 2024 13:27:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\SB0601WH1 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	426250.9	1.6	**55.1953**	0.434	0.8	ug/L	-4073	Standard
|	**Ni -1**	60	170659.0	1.1	**54.0637**	0.712	1.3	ug/L	155	Standard
|	**Ni -2**	62	45394.7	0.7	**49.1240**	1.701	3.5	ug/L	26155	Standard
|	**Cu**	63	382139.2	1.3	**51.0462**	1.107	2.2	ug/L	25402	Standard
|	**Cu -1**	65	165136.6	2.1	**50.8753**	0.180	0.4	ug/L	479	Standard
|	**Zn**	66	90338.8	1.6	**50.1330**	0.421	0.8	ug/L	604	Standard
|	**Zn -1**	67	17596.8	1.1	**58.6714**	1.074	1.8	ug/L	115	Standard
|	**Zn -2**	68	63039.9	3.2	**48.9246**	0.606	1.2	ug/L	605	Standard
|	**As**	75	90982.4	1.9	**44.3753**	0.500	1.1	ug/L	12853	Standard
|	**As-1**	75	81253.0	2.2	**44.4256**	0.392	0.9	ug/L	-4	Standard
|	**Se**	77	11855.3	2.5	**98.0958**	0.185	0.2	ug/L	98	Standard
|	**Se -1**	78	28489.4	0.0	**45.8743**	1.727	3.8	ug/L	12897	Standard
|	**Br**	79	1763.1	2.4				ug/L	2838	Standard
|	**Se -2**	82	7403.3	0.5	**45.6926**	0.951	2.1	ug/L	35	Standard
	Kr	83	52.7	12.6				ug/L	29	Standard
	Y	89	484677.5	0.9				ug/L	601935	Standard
|	**Rh**	103	83394.4	1.5				ug/L	108502	Standard
|	**Ni -3**	58	103123.3	0.5	**53.7017**	0.457	0.9	ug/L	68	KED
|	**Ni -4**	60	44531.3	0.9	**52.9478**	0.324	0.6	ug/L	30	KED
|	**Ni -5**	62	6687.2	1.2	**52.5668**	1.090	2.1	ug/L	9	KED
|	**Cu -2**	63	111528.1	1.7	**52.3151**	0.599	1.1	ug/L	172	KED
|	**Cu -3**	65	51833.5	1.7	**51.2377**	0.605	1.2	ug/L	89	KED
|	**Zn -3**	66	11609.0	1.4	**47.3796**	0.504	1.1	ug/L	65	KED
|	**Zn -4**	67	1908.1	3.8	**46.7977**	2.196	4.7	ug/L	10	KED
|	**Zn -5**	68	8695.3	1.5	**47.3779**	1.084	2.3	ug/L	39	KED
|	**As-2**	75	7905.9	0.7	**45.8642**	0.716	1.6	ug/L	1	KED
	Y-1	89	51664.3	1.3				ug/L	50921	KED
	Rh-1	103	36711.5	1.8				ug/L	32421	KED
| >	**Ge**	72	324882.7	2.4				ug/L	400120	Standard
| >	**In**	115	338583.0	0.7				ug/L	376660	Standard
| >	**Ge-1**	72	24546.4	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	81.196
|>	In	115	89.891
|>	Ge-1	72	112.239

Quantitative Analysis - Summary Report

Sample ID: 05-300-05b 2X

Sample Date/Time: Saturday, June 01, 2024 13:30:44
Report Date/Time: Saturday, June 01, 2024 13:33:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05b 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	32236.3	6.1	**4.3945**	0.256	5.8	ug/L	-4073	Standard
|	**Ni -1**	60	12868.5	1.1	**3.9486**	0.012	0.3	ug/L	155	Standard
|	**Ni -2**	62	25439.3	0.5	**13.3219**	0.271	2.0	ug/L	26155	Standard
|	**Cu**	63	48101.5	1.7	**4.3304**	0.084	2.0	ug/L	25402	Standard
|	**Cu -1**	65	12652.3	0.8	**3.7558**	0.037	1.0	ug/L	479	Standard
|	**Zn**	66	72739.7	1.6	**39.1484**	0.753	1.9	ug/L	604	Standard
|	**Zn -1**	67	14662.5	0.9	**47.4214**	0.141	0.3	ug/L	115	Standard
|	**Zn -2**	68	50487.1	1.8	**37.9748**	0.271	0.7	ug/L	605	Standard
|	**As**	75	16599.9	1.5	**3.1523**	0.050	1.6	ug/L	12853	Standard
|	**As-1**	75	3534.6	4.5	**1.8722**	0.065	3.5	ug/L	-4	Standard
|	**Se**	77	7761.4	2.4	**62.1399**	1.127	1.8	ug/L	98	Standard
|	**Se -1**	78	13171.1	0.7	**6.2981**	0.135	2.1	ug/L	12897	Standard
|	**Br**	79	5938.2	0.4				ug/L	2838	Standard
|	**Se -2**	82	61.0	5.7	**0.2075**	0.025	11.8	ug/L	35	Standard
	Kr	83	60.7	1.0				ug/L	29	Standard
	Y	89	512771.1	1.1				ug/L	601935	Standard
|	**Rh**	103	85463.6	2.2				ug/L	108502	Standard
|	**Ni -3**	58	10019.9	2.5	**5.2737**	0.052	1.0	ug/L	68	KED
|	**Ni -4**	60	3286.0	3.2	**3.9507**	0.066	1.7	ug/L	30	KED
|	**Ni -5**	62	511.0	5.5	**4.0764**	0.176	4.3	ug/L	9	KED
|	**Cu -2**	63	8358.1	2.4	**3.9449**	0.107	2.7	ug/L	172	KED
|	**Cu -3**	65	3880.5	0.9	**3.8605**	0.047	1.2	ug/L	89	KED
|	**Zn -3**	66	9059.2	1.4	**37.3638**	0.082	0.2	ug/L	65	KED
|	**Zn -4**	67	1481.1	4.4	**36.6769**	1.399	3.8	ug/L	10	KED
|	**Zn -5**	68	6627.9	2.3	**36.4647**	0.736	2.0	ug/L	39	KED
|	**As-2**	75	364.0	1.9	**2.1333**	0.075	3.5	ug/L	1	KED
	Y-1	89	51953.7	2.0				ug/L	50921	KED
	Rh-1	103	35739.0	1.8				ug/L	32421	KED
| >	**Ge**	72	334524.4	1.1				ug/L	400120	Standard
| >	**In**	115	338429.3	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24264.6	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	83.606
>	In	115	89.850
>	Ge-1	72	110.951

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bD 2X

Sample Date/Time: Saturday, June 01, 2024 13:44:29
Report Date/Time: Saturday, June 01, 2024 13:46:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bD 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	32171.8	5.9	**4.6704**	0.211	4.5	ug/L	-4073	Standard
|	**Ni -1**	60	13880.1	2.2	**4.5634**	0.060	1.3	ug/L	155	Standard
|	**Ni -2**	62	23826.2	1.0	**13.4642**	0.874	6.5	ug/L	26155	Standard
|	**Cu**	63	44973.3	0.8	**4.3403**	0.015	0.3	ug/L	25402	Standard
|	**Cu -1**	65	12045.7	1.3	**3.8308**	0.055	1.4	ug/L	479	Standard
|	**Zn**	66	66147.8	1.4	**38.1244**	0.304	0.8	ug/L	604	Standard
|	**Zn -1**	67	13872.7	3.4	**48.0548**	1.144	2.4	ug/L	115	Standard
|	**Zn -2**	68	45200.7	1.6	**36.4049**	0.470	1.3	ug/L	605	Standard
|	**As**	75	15371.7	0.9	**3.0819**	0.169	5.5	ug/L	12853	Standard
|	**As-1**	75	3295.5	6.7	**1.8712**	0.144	7.7	ug/L	-4	Standard
|	**Se**	77	6868.0	1.5	**58.8737**	1.032	1.8	ug/L	98	Standard
|	**Se -1**	78	12164.5	0.7	**5.9529**	0.098	1.6	ug/L	12897	Standard
|	**Br**	79	4716.4	2.3				ug/L	2838	Standard
|	**Se -2**	82	52.7	8.6	**0.1797**	0.027	15.2	ug/L	35	Standard
	Kr	83	51.7	4.0				ug/L	29	Standard
	Y	89	482063.5	1.1				ug/L	601935	Standard
|	**Rh**	103	79861.6	1.4				ug/L	108502	Standard
|	**Ni -3**	58	10966.7	1.5	**5.6510**	0.126	2.2	ug/L	68	KED
|	**Ni -4**	60	3655.5	1.8	**4.3021**	0.044	1.0	ug/L	30	KED
|	**Ni -5**	62	540.0	2.4	**4.2189**	0.189	4.5	ug/L	9	KED
|	**Cu -2**	63	8291.1	3.0	**3.8285**	0.084	2.2	ug/L	172	KED
|	**Cu -3**	65	3869.2	1.2	**3.7668**	0.065	1.7	ug/L	89	KED
|	**Zn -3**	66	8863.4	3.1	**35.7624**	0.417	1.2	ug/L	65	KED
|	**Zn -4**	67	1423.4	1.5	**34.4979**	1.150	3.3	ug/L	10	KED
|	**Zn -5**	68	6579.8	1.9	**35.4206**	0.440	1.2	ug/L	39	KED
|	**As-2**	75	367.0	7.6	**2.1028**	0.124	5.9	ug/L	1	KED
	Y-1	89	52783.0	2.2				ug/L	50921	KED
	Rh-1	103	36396.0	1.6				ug/L	32421	KED
| >	**Ge**	72	312301.3	1.0				ug/L	400120	Standard
| >	**In**	115	329419.0	1.4				ug/L	376660	Standard
| >	**Ge-1**	72	24796.2	2.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	78.052
>	In	115	87.458
>	Ge-1	72	113.381

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bL 10X

Sample Date/Time: Saturday, June 01, 2024 13:49:07
Report Date/Time: Saturday, June 01, 2024 13:51:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bL 10X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-1214.4	44.3	**0.2019**	0.073	36.3	ug/L	-4073	Standard
|	**Ni -1**	60	2937.0	2.0	**0.9758**	0.007	0.7	ug/L	155	Standard
|	**Ni -2**	62	20080.4	1.3	**7.4137**	0.739	10.0	ug/L	26155	Standard
|	**Cu**	63	22999.5	0.6	**1.2216**	0.057	4.7	ug/L	25402	Standard
|	**Cu -1**	65	2986.0	1.6	**0.9436**	0.008	0.9	ug/L	479	Standard
|	**Zn**	66	15618.9	0.9	**8.9905**	0.037	0.4	ug/L	604	Standard
|	**Zn -1**	67	3380.1	0.3	**11.7537**	0.121	1.0	ug/L	115	Standard
|	**Zn -2**	68	11003.6	2.6	**8.7577**	0.122	1.4	ug/L	605	Standard
|	**As**	75	12652.7	1.0	**1.6619**	0.036	2.2	ug/L	12853	Standard
|	**As-1**	75	816.5	6.3	**0.4692**	0.036	7.6	ug/L	-4	Standard
|	**Se**	77	1800.1	3.7	**15.2620**	0.417	2.7	ug/L	98	Standard
|	**Se -1**	78	11889.9	1.3	**5.8273**	0.172	2.9	ug/L	12897	Standard
|	**Br**	79	2323.2	1.0				ug/L	2838	Standard
|	**Se -2**	82	38.7	14.2	**0.0947**	0.039	41.6	ug/L	35	Standard
	Kr	83	39.0	16.8				ug/L	29	Standard
	Y	89	452141.2	2.0				ug/L	601935	Standard
|	**Rh**	103	79909.2	1.1				ug/L	108502	Standard
|	**Ni -3**	58	2027.0	2.3	**1.1281**	0.018	1.6	ug/L	68	KED
|	**Ni -4**	60	722.7	4.0	**0.9207**	0.029	3.2	ug/L	30	KED
|	**Ni -5**	62	108.3	11.4	**0.9293**	0.107	11.5	ug/L	9	KED
|	**Cu -2**	63	1911.8	2.5	**0.9393**	0.033	3.5	ug/L	172	KED
|	**Cu -3**	65	900.7	1.8	**0.9336**	0.013	1.4	ug/L	89	KED
|	**Zn -3**	66	1994.1	1.4	**8.5812**	0.202	2.4	ug/L	65	KED
|	**Zn -4**	67	323.3	6.1	**8.2887**	0.439	5.3	ug/L	10	KED
|	**Zn -5**	68	1424.1	0.4	**8.0918**	0.066	0.8	ug/L	39	KED
|	**As-2**	75	73.7	5.5	**0.4549**	0.023	5.1	ug/L	1	KED
	Y-1	89	48273.1	1.4				ug/L	50921	KED
	Rh-1	103	33484.2	0.9				ug/L	32421	KED
| >	**Ge**	72	306454.8	1.3				ug/L	400120	Standard
| >	**In**	115	314277.2	0.5				ug/L	376660	Standard
| >	**Ge-1**	72	22875.6	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	76.591
| >	In	115	83.438
| >	Ge-1	72	104.600

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bMS 2X

Sample Date/Time: Saturday, June 01, 2024 13:53:47
Report Date/Time: Saturday, June 01, 2024 13:56:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bMS 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	444621.4	2.4	**64.1856**	0.577	0.9	ug/L	-4073	Standard
|	**Ni -1**	60	174981.0	1.6	**61.8575**	0.119	0.2	ug/L	155	Standard
|	**Ni -2**	62	45750.8	1.0	**58.9054**	0.426	0.7	ug/L	26155	Standard
|	**Cu**	63	391426.6	2.1	**58.6490**	0.440	0.7	ug/L	25402	Standard
|	**Cu -1**	65	166917.0	1.8	**57.3947**	0.213	0.4	ug/L	479	Standard
|	**Zn**	66	149659.1	2.3	**92.8839**	1.137	1.2	ug/L	604	Standard
|	**Zn -1**	67	27362.9	1.8	**101.9749**	0.417	0.4	ug/L	115	Standard
|	**Zn -2**	68	100585.2	1.4	**87.4219**	0.686	0.8	ug/L	605	Standard
|	**As**	75	89949.9	1.1	**49.5570**	0.638	1.3	ug/L	12853	Standard
|	**As-1**	75	80366.3	1.2	**49.0458**	0.718	1.5	ug/L	-4	Standard
|	**Se**	77	11696.5	0.6	**108.0960**	1.263	1.2	ug/L	98	Standard
|	**Se -1**	78	28086.6	1.3	**53.0500**	0.185	0.3	ug/L	12897	Standard
|	**Br**	79	4848.5	1.2				ug/L	2838	Standard
|	**Se -2**	82	7301.9	0.9	**50.3028**	0.370	0.7	ug/L	35	Standard
	Kr	83	53.3	7.6				ug/L	29	Standard
	Y	89	451231.6	2.1				ug/L	601935	Standard
|	**Rh**	103	73851.8	1.8				ug/L	108502	Standard
|	**Ni -3**	58	110844.3	1.2	**60.2405**	0.642	1.1	ug/L	68	KED
|	**Ni -4**	60	47351.4	0.9	**58.7631**	1.023	1.7	ug/L	30	KED
|	**Ni -5**	62	6979.4	1.8	**57.2453**	0.367	0.6	ug/L	9	KED
|	**Cu -2**	63	119433.9	1.1	**58.4752**	0.762	1.3	ug/L	172	KED
|	**Cu -3**	65	55424.6	0.8	**57.1867**	0.809	1.4	ug/L	89	KED
|	**Zn -3**	66	20062.4	1.8	**85.5982**	0.412	0.5	ug/L	65	KED
|	**Zn -4**	67	3293.4	3.6	**84.4560**	1.193	1.4	ug/L	10	KED
|	**Zn -5**	68	15053.6	2.3	**85.8070**	0.247	0.3	ug/L	39	KED
|	**As-2**	75	8414.1	1.7	**50.9366**	0.312	0.6	ug/L	1	KED
	Y-1	89	49217.3	1.6				ug/L	50921	KED
	Rh-1	103	34500.6	1.6				ug/L	32421	KED
|>	**Ge**	72	291083.7	1.5				ug/L	400120	Standard
|>	**In**	115	307919.3	1.9				ug/L	376660	Standard
|>	**Ge-1**	72	23523.4	2.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	72.749
|>	In	115	81.750
|>	Ge-1	72	107.561

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bMSD 2X

Sample Date/Time: Saturday, June 01, 2024 14:03:54
Report Date/Time: Saturday, June 01, 2024 14:06:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bMSD 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	445268.6	1.7	**63.5714**	1.147	1.8	ug/L	-4073	Standard
|	**Ni -1**	60	175052.7	1.0	**61.1930**	0.672	1.1	ug/L	155	Standard
|	**Ni -2**	62	44875.0	0.8	**56.2441**	0.720	1.3	ug/L	26155	Standard
|	**Cu**	63	390392.9	0.8	**57.8152**	0.465	0.8	ug/L	25402	Standard
|	**Cu -1**	65	166855.6	1.6	**56.7353**	0.962	1.7	ug/L	479	Standard
|	**Zn**	66	149294.8	0.8	**91.6263**	0.763	0.8	ug/L	604	Standard
|	**Zn -1**	67	27589.6	0.9	**101.6751**	1.070	1.1	ug/L	115	Standard
|	**Zn -2**	68	102634.7	0.1	**88.2088**	0.174	0.2	ug/L	605	Standard
|	**As**	75	90187.9	1.2	**49.0806**	0.690	1.4	ug/L	12853	Standard
|	**As-1**	75	80037.0	1.3	**48.2951**	0.644	1.3	ug/L	-4	Standard
|	**Se**	77	11819.2	1.5	**107.9996**	1.600	1.5	ug/L	98	Standard
|	**Se -1**	78	28532.5	1.0	**53.4077**	0.872	1.6	ug/L	12897	Standard
|	**Br**	79	4882.2	1.6				ug/L	2838	Standard
|	**Se -2**	82	7254.8	0.9	**49.4154**	0.492	1.0	ug/L	35	Standard
	Kr	83	55.3	10.0				ug/L	29	Standard
	Y	89	452745.5	2.0				ug/L	601935	Standard
|	**Rh**	103	74093.0	1.3				ug/L	108502	Standard
|	**Ni -3**	58	110211.6	1.8	**61.3557**	0.573	0.9	ug/L	68	KED
|	**Ni -4**	60	46185.2	1.3	**58.7090**	0.230	0.4	ug/L	30	KED
|	**Ni -5**	62	6858.3	1.9	**57.6290**	0.773	1.3	ug/L	9	KED
|	**Cu -2**	63	116411.0	0.4	**58.3869**	0.320	0.5	ug/L	172	KED
|	**Cu -3**	65	54257.8	1.0	**57.3462**	0.152	0.3	ug/L	89	KED
|	**Zn -3**	66	19719.6	0.5	**86.2051**	1.154	1.3	ug/L	65	KED
|	**Zn -4**	67	3212.4	0.5	**84.4237**	0.742	0.9	ug/L	10	KED
|	**Zn -5**	68	14641.5	1.2	**85.5077**	0.558	0.7	ug/L	39	KED
|	**As-2**	75	8318.4	0.3	**51.5927**	0.467	0.9	ug/L	1	KED
	Y-1	89	48848.7	0.3				ug/L	50921	KED
	Rh-1	103	33632.2	1.6				ug/L	32421	KED
| >	**Ge**	72	294369.3	0.1				ug/L	400120	Standard
| >	**In**	115	308460.6	1.3				ug/L	376660	Standard
| >	**Ge-1**	72	22959.1	0.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	73.570
|>	In	115	81.894
|>	Ge-1	72	104.981

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bPS 2X

Sample Date/Time: Saturday, June 01, 2024 14:08:34
Report Date/Time: Saturday, June 01, 2024 14:10:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bPS 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	402906.7	0.9	**53.0145**	0.148	0.3	ug/L	-4073	Standard
|	**Ni -1**	60	156095.2	1.1	**50.2290**	0.366	0.7	ug/L	155	Standard
|	**Ni -2**	62	42637.5	0.9	**45.5145**	1.179	2.6	ug/L	26155	Standard
|	**Cu**	63	351556.4	0.9	**47.5577**	0.556	1.2	ug/L	25402	Standard
|	**Cu -1**	65	148026.7	1.1	**46.3314**	0.780	1.7	ug/L	479	Standard
|	**Zn**	66	140406.3	0.6	**79.2951**	0.599	0.8	ug/L	604	Standard
|	**Zn -1**	67	26435.8	1.4	**89.6533**	0.787	0.9	ug/L	115	Standard
|	**Zn -2**	68	95689.1	1.0	**75.6549**	0.429	0.6	ug/L	605	Standard
|	**As**	75	80985.4	1.0	**39.5797**	0.408	1.0	ug/L	12853	Standard
|	**As-1**	75	70342.7	1.1	**39.0736**	0.442	1.1	ug/L	-4	Standard
|	**Se**	77	11834.9	0.8	**99.5086**	1.342	1.3	ug/L	98	Standard
|	**Se -1**	78	26451.8	0.9	**41.7801**	0.578	1.4	ug/L	12897	Standard
|	**Br**	79	5307.0	1.7				ug/L	2838	Standard
|	**Se -2**	82	6242.4	1.6	**39.1098**	0.733	1.9	ug/L	35	Standard
	Kr	83	52.3	12.7				ug/L	29	Standard
	Y	89	492853.9	0.4				ug/L	601935	Standard
|	**Rh**	103	80542.1	1.1				ug/L	108502	Standard
|	**Ni -3**	58	96624.2	1.5	**50.3176**	0.485	1.0	ug/L	68	KED
|	**Ni -4**	60	40911.2	1.0	**48.6483**	0.595	1.2	ug/L	30	KED
|	**Ni -5**	62	6145.7	1.0	**48.3178**	1.174	2.4	ug/L	9	KED
|	**Cu -2**	63	101404.0	0.9	**47.5710**	0.584	1.2	ug/L	172	KED
|	**Cu -3**	65	47320.9	1.1	**46.7797**	0.323	0.7	ug/L	89	KED
|	**Zn -3**	66	18401.5	2.6	**75.2069**	1.114	1.5	ug/L	65	KED
|	**Zn -4**	67	2956.0	3.5	**72.6091**	1.409	1.9	ug/L	10	KED
|	**Zn -5**	68	13662.2	2.6	**74.5873**	0.866	1.2	ug/L	39	KED
|	**As-2**	75	7116.4	1.9	**41.2798**	0.182	0.4	ug/L	1	KED
	Y-1	89	52187.2	1.8				ug/L	50921	KED
	Rh-1	103	36408.0	1.0				ug/L	32421	KED
| >	**Ge**	72	319770.7	0.7				ug/L	400120	Standard
| >	**In**	115	335819.1	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24546.1	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	79.919
| >	In	115	89.157
| >	Ge-1	72	112.238

Quantitative Analysis - Summary Report

Sample ID: 05-426-01 5X

Sample Date/Time: Saturday, June 01, 2024 14:13:14
Report Date/Time: Saturday, June 01, 2024 14:15:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-426-01 5X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1165.5	28.7	**0.5149**	0.043	8.4	ug/L	-4073	Standard
|	**Ni -1**	60	3371.1	2.3	**1.0389**	0.024	2.3	ug/L	155	Standard
|	**Ni -2**	62	21052.5	0.2	**6.3736**	0.565	8.9	ug/L	26155	Standard
|	**Cu**	63	89209.0	0.4	**10.0328**	0.204	2.0	ug/L	25402	Standard
|	**Cu -1**	65	32189.9	1.7	**9.7201**	0.259	2.7	ug/L	479	Standard
|	**Zn**	66	117119.9	2.0	**63.9204**	0.661	1.0	ug/L	604	Standard
|	**Zn -1**	67	19633.5	3.1	**64.3207**	1.148	1.8	ug/L	115	Standard
|	**Zn -2**	68	78240.4	2.1	**59.7485**	0.628	1.1	ug/L	605	Standard
|	**As**	75	12201.8	1.7	**0.8775**	0.012	1.3	ug/L	12853	Standard
|	**As-1**	75	471.1	43.4	**0.2480**	0.107	43.0	ug/L	-4	Standard
|	**Se**	77	3770.2	0.9	**30.2249**	0.286	0.9	ug/L	98	Standard
|	**Se -1**	78	11817.9	1.6	**3.3290**	0.511	15.3	ug/L	12897	Standard
|	**Br**	79	3341.4	2.4				ug/L	2838	Standard
|	**Se -2**	82	51.7	7.3	**0.1550**	0.026	16.5	ug/L	35	Standard
	Kr	83	42.7	7.2				ug/L	29	Standard
	Y	89	503192.3	0.7				ug/L	601935	Standard
|	**Rh**	103	85020.3	1.4				ug/L	108502	Standard
|	**Ni -3**	58	2233.5	5.7	**1.1124**	0.068	6.2	ug/L	68	KED
|	**Ni -4**	60	860.7	4.3	**0.9809**	0.023	2.4	ug/L	30	KED
|	**Ni -5**	62	129.0	6.2	**0.9897**	0.078	7.9	ug/L	9	KED
|	**Cu -2**	63	22627.9	1.4	**10.1747**	0.324	3.2	ug/L	172	KED
|	**Cu -3**	65	10439.1	0.9	**9.8902**	0.140	1.4	ug/L	89	KED
|	**Zn -3**	66	15379.3	0.6	**60.3183**	0.980	1.6	ug/L	65	KED
|	**Zn -4**	67	2376.2	0.2	**55.9960**	1.092	2.0	ug/L	10	KED
|	**Zn -5**	68	11002.6	1.2	**57.6129**	0.902	1.6	ug/L	39	KED
|	**As-2**	75	65.0	27.3	**0.3587**	0.102	28.3	ug/L	1	KED
	Y-1	89	53085.8	0.1				ug/L	50921	KED
	Rh-1	103	37612.8	0.6				ug/L	32421	KED
|>	**Ge**	72	330638.1	1.6				ug/L	400120	Standard
|>	**In**	115	349831.6	0.8				ug/L	376660	Standard
|>	**Ge-1**	72	25569.9	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	82.635
| >	In	115	92.877
| >	Ge-1	72	116.919

Quantitative Analysis - Summary Report

Sample ID: 05-410-01a 5X

Sample Date/Time: Saturday, June 01, 2024 14:17:54
Report Date/Time: Saturday, June 01, 2024 14:20:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-410-01a 5X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	39954.9	2.1	**5.6124**	0.077	1.4	ug/L	-4073	Standard
|	Ni -1	60	17868.5	2.2	**5.7670**	0.093	1.6	ug/L	155	Standard
|	Ni -2	62	77380.0	0.7	**107.1870**	0.120	0.1	ug/L	26155	Standard
|	Cu	63	81153.9	0.9	**9.3595**	0.052	0.6	ug/L	25402	Standard
|	Cu -1	65	3385.7	1.6	**1.0331**	0.012	1.2	ug/L	479	Standard
|	Zn	66	41000.8	0.9	**23.0920**	0.090	0.4	ug/L	604	Standard
|	Zn -1	67	7970.9	0.7	**26.9919**	0.273	1.0	ug/L	115	Standard
|	Zn -2	68	27485.8	0.7	**21.5747**	0.066	0.3	ug/L	605	Standard
|	As	75	12664.4	2.4	**1.3932**	0.122	8.7	ug/L	12853	Standard
|	As-1	75	708.5	2.9	**0.3911**	0.014	3.5	ug/L	-4	Standard
|	Se	77	4745.8	1.7	**39.7167**	0.944	2.4	ug/L	98	Standard
|	Se -1	78	12423.1	2.5	**6.0150**	0.592	9.8	ug/L	12897	Standard
|	Br	79	129292.1	2.8				ug/L	2838	Standard
|	Se -2	82	201.7	2.2	**1.1151**	0.030	2.7	ug/L	35	Standard
	Kr	83	74.7	16.0				ug/L	29	Standard
	Y	89	490331.4	1.9				ug/L	601935	Standard
|	Rh	103	79573.7	2.2				ug/L	108502	Standard
|	Ni -3	58	11549.4	1.6	**5.6770**	0.068	1.2	ug/L	68	KED
|	Ni -4	60	4922.2	1.7	**5.5271**	0.069	1.3	ug/L	30	KED
|	Ni -5	62	760.0	2.5	**5.6572**	0.161	2.8	ug/L	9	KED
|	Cu -2	63	2123.2	1.5	**0.9176**	0.012	1.3	ug/L	172	KED
|	Cu -3	65	946.0	2.7	**0.8617**	0.028	3.2	ug/L	89	KED
|	Zn -3	66	5674.8	0.8	**21.7779**	0.274	1.3	ug/L	65	KED
|	Zn -4	67	885.4	4.7	**20.3601**	1.028	5.1	ug/L	10	KED
|	Zn -5	68	4104.9	1.9	**20.9701**	0.517	2.5	ug/L	39	KED
|	As-2	75	61.3	6.8	**0.3325**	0.024	7.1	ug/L	1	KED
	Y-1	89	53319.3	1.3				ug/L	50921	KED
	Rh-1	103	36667.0	1.1				ug/L	32421	KED
| >	Ge	72	318285.4	0.7				ug/L	400120	Standard
| >	In	115	335339.2	1.2				ug/L	376660	Standard
| >	Ge-1	72	25985.3	0.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	79.548
|>	In	115	89.030
|>	Ge-1	72	118.818

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 14:32:01
Report Date/Time: Saturday, June 01, 2024 14:34:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	319844.7	2.9	**41.7771**	0.268	0.6	ug/L	-4073	Standard
|	**Ni -1**	60	128232.3	2.9	**40.8822**	0.121	0.3	ug/L	155	Standard
|	**Ni -2**	62	39636.9	0.5	**39.6266**	1.511	3.8	ug/L	26155	Standard
|	**Cu**	63	303524.1	1.1	**40.3810**	0.698	1.7	ug/L	25402	Standard
|	**Cu -1**	65	129995.9	1.7	**40.3189**	0.720	1.8	ug/L	479	Standard
|	**Zn**	66	73507.7	1.6	**41.0246**	0.435	1.1	ug/L	604	Standard
|	**Zn -1**	67	12123.1	0.7	**40.6223**	0.864	2.1	ug/L	115	Standard
|	**Zn -2**	68	51345.8	2.0	**40.0614**	0.561	1.4	ug/L	605	Standard
|	**As**	75	79336.2	2.0	**38.2558**	0.284	0.7	ug/L	12853	Standard
|	**As-1**	75	67973.3	2.8	**37.4104**	0.078	0.2	ug/L	-4	Standard
|	**Se**	77	4644.4	1.1	**38.3184**	0.581	1.5	ug/L	98	Standard
|	**Se -1**	78	27062.6	0.5	**42.7380**	1.674	3.9	ug/L	12897	Standard
|	**Br**	79	2301.5	2.0				ug/L	2838	Standard
|	**Se -2**	82	6200.3	2.9	**38.4890**	0.661	1.7	ug/L	35	Standard
	Kr	83	35.7	14.4				ug/L	29	Standard
	Y	89	456774.8	3.0				ug/L	601935	Standard
|	**Rh**	103	83518.6	3.0				ug/L	108502	Standard
|	**Ni -3**	58	70142.0	0.5	**41.8917**	0.271	0.6	ug/L	68	KED
|	**Ni -4**	60	30301.8	0.4	**41.3237**	0.420	1.0	ug/L	30	KED
|	**Ni -5**	62	4454.4	0.1	**40.1604**	0.412	1.0	ug/L	9	KED
|	**Cu -2**	63	76685.6	1.1	**41.2527**	0.360	0.9	ug/L	172	KED
|	**Cu -3**	65	35589.6	0.9	**40.3454**	0.058	0.1	ug/L	89	KED
|	**Zn -3**	66	8514.2	1.4	**39.8228**	0.126	0.3	ug/L	65	KED
|	**Zn -4**	67	1408.4	3.0	**39.5597**	0.796	2.0	ug/L	10	KED
|	**Zn -5**	68	6323.7	1.5	**39.4652**	0.332	0.8	ug/L	39	KED
|	**As-2**	75	5782.2	1.1	**38.4719**	0.686	1.8	ug/L	1	KED
	Y-1	89	45464.2	0.2				ug/L	50921	KED
	Rh-1	103	30594.4	1.1				ug/L	32421	KED
|>	**Ge**	72	322720.4	2.6				ug/L	400120	Standard
|>	**In**	115	316150.9	2.0				ug/L	376660	Standard
|>	**Ge-1**	72	21402.4	1.1				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	80.656
| >	In	115	83.935
| >	Ge-1	72	97.863

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 14:36:41
Report Date/Time: Saturday, June 01, 2024 14:39:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	190440.2	2.0	**21.8547**	0.124	0.6	ug/L	-4073	Standard
|	**Ni -1**	60	76346.9	2.5	**21.2055**	0.080	0.4	ug/L	155	Standard
|	**Ni -2**	62	30604.1	0.9	**17.0386**	1.146	6.7	ug/L	26155	Standard
|	**Cu**	63	184110.6	2.5	**20.3122**	0.071	0.3	ug/L	25402	Standard
|	**Cu -1**	65	77216.2	2.4	**20.8482**	0.093	0.4	ug/L	479	Standard
|	**Zn**	66	43431.3	2.1	**21.0013**	0.091	0.4	ug/L	604	Standard
|	**Zn -1**	67	7372.9	2.5	**21.4072**	0.251	1.2	ug/L	115	Standard
|	**Zn -2**	68	30944.8	3.1	**20.8609**	0.215	1.0	ug/L	605	Standard
|	**As**	75	52125.2	2.6	**19.4520**	0.203	1.0	ug/L	12853	Standard
|	**As-1**	75	40300.5	3.5	**19.3222**	0.218	1.1	ug/L	-4	Standard
|	**Se**	77	2835.3	2.2	**20.0885**	0.446	2.2	ug/L	98	Standard
|	**Se -1**	78	21310.2	1.3	**21.1767**	0.653	3.1	ug/L	12897	Standard
|	**Br**	79	2022.5	2.1				ug/L	2838	Standard
|	**Se -2**	82	3753.5	4.3	**20.2207**	0.419	2.1	ug/L	35	Standard
	Kr	83	34.0	29.0				ug/L	29	Standard
	Y	89	512286.2	0.8				ug/L	601935	Standard
|	**Rh**	103	93717.8	1.2				ug/L	108502	Standard
|	**Ni -3**	58	41121.5	0.5	**21.8473**	0.266	1.2	ug/L	68	KED
|	**Ni -4**	60	17776.7	1.5	**21.5650**	0.239	1.1	ug/L	30	KED
|	**Ni -5**	62	2696.6	0.5	**21.6353**	0.093	0.4	ug/L	9	KED
|	**Cu -2**	63	44700.5	1.3	**21.3813**	0.290	1.4	ug/L	172	KED
|	**Cu -3**	65	20716.7	1.3	**20.8819**	0.130	0.6	ug/L	89	KED
|	**Zn -3**	66	5016.2	1.3	**20.7840**	0.251	1.2	ug/L	65	KED
|	**Zn -4**	67	805.4	3.4	**19.9972**	0.625	3.1	ug/L	10	KED
|	**Zn -5**	68	3678.5	3.5	**20.2840**	0.574	2.8	ug/L	39	KED
|	**As-2**	75	3390.1	1.7	**20.0636**	0.373	1.9	ug/L	1	KED
	Y-1	89	51831.5	0.1				ug/L	50921	KED
	Rh-1	103	34659.0	0.4				ug/L	32421	KED
| >	**Ge**	72	370362.0	2.5				ug/L	400120	Standard
| >	**In**	115	355624.7	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24057.2	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	92.563
|>	In	115	94.415
|>	Ge-1	72	110.002

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 14:41:21
Report Date/Time: Saturday, June 01, 2024 14:43:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5603.2	2.0	**-0.2758**	0.015	5.5	ug/L	-4073	Standard
|	**Ni -1**	60	164.3	10.3	**0.0360**	0.006	15.3	ug/L	155	Standard
|	**Ni -2**	62	18778.0	0.5	**-0.4180**	0.552	132.2	ug/L	26155	Standard
|	**Cu**	63	15932.2	0.7	**-0.1935**	0.043	22.2	ug/L	25402	Standard
|	**Cu -1**	65	447.7	4.9	**0.0910**	0.008	8.9	ug/L	479	Standard
|	**Zn**	66	663.7	2.5	**0.0885**	0.004	4.0	ug/L	604	Standard
|	**Zn -1**	67	142.7	13.1	**0.1861**	0.063	33.9	ug/L	115	Standard
|	**Zn -2**	68	661.3	3.4	**0.0990**	0.018	18.4	ug/L	605	Standard
|	**As**	75	12616.1	2.7	**0.4751**	0.080	16.9	ug/L	12853	Standard
|	**As-1**	75	-23.9	329.1	**-0.0163**	0.038	235.2	ug/L	-4	Standard
|	**Se**	77	156.0	7.4	**0.5316**	0.069	13.0	ug/L	98	Standard
|	**Se -1**	78	12696.6	2.3	**2.6170**	0.243	9.3	ug/L	12897	Standard
|	**Br**	79	1796.8	2.2				ug/L	2838	Standard
|	**Se -2**	82	41.0	23.5	**0.0668**	0.051	76.4	ug/L	35	Standard
	Kr	83	34.7	9.3				ug/L	29	Standard
	Y	89	506172.5	2.8				ug/L	601935	Standard
|	**Rh**	103	93249.7	1.5				ug/L	108502	Standard
|	**Ni -3**	58	84.4	9.2	**0.0408**	0.003	8.4	ug/L	68	KED
|	**Ni -4**	60	37.3	20.1	**0.0447**	0.010	22.9	ug/L	30	KED
|	**Ni -5**	62	13.7	11.2	**0.1265**	0.013	10.2	ug/L	9	KED
|	**Cu -2**	63	226.7	4.3	**0.0862**	0.007	8.1	ug/L	172	KED
|	**Cu -3**	65	113.0	3.2	**0.0931**	0.005	5.1	ug/L	89	KED
|	**Zn -3**	66	72.0	6.1	**0.1169**	0.022	19.2	ug/L	65	KED
|	**Zn -4**	67	12.7	36.5	**0.0607**	0.125	206.5	ug/L	10	KED
|	**Zn -5**	68	48.0	19.9	**-0.0125**	0.050	395.3	ug/L	39	KED
|	**As-2**	75	3.7	63.0	**0.0181**	0.014	74.7	ug/L	1	KED
	Y-1	89	50920.3	1.0				ug/L	50921	KED
	Rh-1	103	34400.7	1.9				ug/L	32421	KED
| >	**Ge**	72	364025.4	1.6				ug/L	400120	Standard
| >	**In**	115	349102.7	1.3				ug/L	376660	Standard
| >	**Ge-1**	72	23790.8	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	90.979
| >	In	115	92.684
| >	Ge-1	72	108.784

Quantitative Analysis - Summary Report

Sample ID: 05-442-01c 5X

Sample Date/Time: Saturday, June 01, 2024 14:46:57
Report Date/Time: Saturday, June 01, 2024 14:49:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-442-01c 5X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	74445.3	8.2	**9.2406**	0.731	7.9	ug/L	-4073	Standard
|	**Ni -1**	60	14397.3	1.5	**4.2164**	0.093	2.2	ug/L	155	Standard
|	**Ni -2**	62	68003.9	6.6	**79.5710**	7.055	8.9	ug/L	26155	Standard
|	**Cu**	63	67823.6	5.5	**6.5765**	0.464	7.1	ug/L	25402	Standard
|	**Cu -1**	65	2276.5	4.2	**0.6181**	0.029	4.6	ug/L	479	Standard
|	**Zn**	66	2543.6	0.7	**1.0725**	0.017	1.6	ug/L	604	Standard
|	**Zn -1**	67	1799.4	1.8	**5.3403**	0.079	1.5	ug/L	115	Standard
|	**Zn -2**	68	4702.8	0.7	**3.0450**	0.020	0.6	ug/L	605	Standard
|	**As**	75	18323.7	0.2	**3.6258**	0.089	2.4	ug/L	12853	Standard
|	**As-1**	75	6086.2	1.7	**3.0798**	0.076	2.5	ug/L	-4	Standard
|	**Se**	77	2619.2	4.0	**19.5851**	0.791	4.0	ug/L	98	Standard
|	**Se -1**	78	13279.2	0.8	**5.0741**	0.367	7.2	ug/L	12897	Standard
|	**Br**	79	329698.2	1.3				ug/L	2838	Standard
|	**Se -2**	82	428.3	5.8	**2.2993**	0.170	7.4	ug/L	35	Standard
	Kr	83	71.7	26.2				ug/L	29	Standard
	Y	89	518159.6	0.6				ug/L	601935	Standard
|	**Rh**	103	86873.4	0.8				ug/L	108502	Standard
|	**Ni -3**	58	21730.1	1.7	**11.1822**	0.269	2.4	ug/L	68	KED
|	**Ni -4**	60	3438.1	3.3	**4.0386**	0.091	2.2	ug/L	30	KED
|	**Ni -5**	62	498.0	3.6	**3.8823**	0.077	2.0	ug/L	9	KED
|	**Cu -2**	63	1215.7	2.7	**0.5404**	0.022	4.1	ug/L	172	KED
|	**Cu -3**	65	591.0	3.0	**0.5555**	0.016	2.9	ug/L	89	KED
|	**Zn -3**	66	297.0	2.4	**1.0156**	0.048	4.7	ug/L	65	KED
|	**Zn -4**	67	241.7	5.5	**5.6269**	0.328	5.8	ug/L	10	KED
|	**Zn -5**	68	859.7	6.4	**4.3769**	0.370	8.4	ug/L	39	KED
|	**As-2**	75	497.0	1.8	**2.8461**	0.032	1.1	ug/L	1	KED
	Y-1	89	52194.2	2.5				ug/L	50921	KED
	Rh-1	103	35147.2	2.1				ug/L	32421	KED
| >	**Ge**	72	350598.0	1.1				ug/L	400120	Standard
| >	**In**	115	338694.0	0.6				ug/L	376660	Standard
| >	**Ge-1**	72	24835.9	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	87.623
|>	In	115	89.920
|>	Ge-1	72	113.563

Quantitative Analysis - Summary Report

Sample ID: 05-442-02c 5X

Sample Date/Time: Saturday, June 01, 2024 14:51:37
Report Date/Time: Saturday, June 01, 2024 14:53:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-442-02c 5X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	74346.9	4.6	**9.5922**	0.697	7.3	ug/L	-4073	Standard
|	**Ni -1**	60	13477.0	2.2	**4.1027**	0.045	1.1	ug/L	155	Standard
|	**Ni -2**	62	115822.3	5.6	**163.4288**	4.643	2.8	ug/L	26155	Standard
|	**Cu**	63	116663.8	5.8	**13.4635**	0.407	3.0	ug/L	25402	Standard
|	**Cu -1**	65	3920.2	2.0	**1.1321**	0.016	1.4	ug/L	479	Standard
|	**Zn**	66	7248.8	1.3	**3.6531**	0.100	2.7	ug/L	604	Standard
|	**Zn -1**	67	2063.8	0.8	**6.4177**	0.234	3.6	ug/L	115	Standard
|	**Zn -2**	68	6749.3	4.0	**4.7202**	0.098	2.1	ug/L	605	Standard
|	**As**	75	18958.7	4.4	**4.3286**	0.145	3.4	ug/L	12853	Standard
|	**As-1**	75	5477.6	7.8	**2.8778**	0.137	4.8	ug/L	-4	Standard
|	**Se**	77	2586.6	2.5	**20.1277**	0.557	2.8	ug/L	98	Standard
|	**Se -1**	78	14413.9	3.4	**9.0479**	0.279	3.1	ug/L	12897	Standard
|	**Br**	79	351941.9	3.0				ug/L	2838	Standard
|	**Se -2**	82	387.3	9.9	**2.1473**	0.157	7.3	ug/L	35	Standard
	Kr	83	110.7	20.2				ug/L	29	Standard
	Y	89	504873.2	1.4				ug/L	601935	Standard
|	**Rh**	103	83581.2	2.3				ug/L	108502	Standard
|	**Ni -3**	58	20123.0	2.9	**10.1910**	0.303	3.0	ug/L	68	KED
|	**Ni -4**	60	3281.7	3.6	**3.7953**	0.148	3.9	ug/L	30	KED
|	**Ni -5**	62	505.3	3.2	**3.8778**	0.069	1.8	ug/L	9	KED
|	**Cu -2**	63	2332.9	3.7	**1.0412**	0.029	2.8	ug/L	172	KED
|	**Cu -3**	65	1073.4	2.9	**1.0105**	0.031	3.0	ug/L	89	KED
|	**Zn -3**	66	904.0	1.6	**3.4161**	0.067	2.0	ug/L	65	KED
|	**Zn -4**	67	264.0	4.7	**6.0675**	0.217	3.6	ug/L	10	KED
|	**Zn -5**	68	1017.4	3.4	**5.1426**	0.242	4.7	ug/L	39	KED
|	**As-2**	75	462.7	2.8	**2.6073**	0.048	1.8	ug/L	1	KED
	Y-1	89	53144.7	0.7				ug/L	50921	KED
	Rh-1	103	35677.8	1.5				ug/L	32421	KED
| >	**Ge**	72	337289.6	3.2				ug/L	400120	Standard
| >	**In**	115	348512.9	1.8				ug/L	376660	Standard
| >	**Ge-1**	72	25232.3	1.4				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	84.297
| >	In	115	92.527
| >	Ge-1	72	115.375

Quantitative Analysis - Summary Report

Sample ID: 05-311-01b 10X 29WM1

Sample Date/Time: Saturday, June 01, 2024 14:56:16
Report Date/Time: Saturday, June 01, 2024 14:58:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-01b 10X 29WM1.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4328.3	4.4	**0.8574**	0.028	3.2	ug/L	-4073	Standard
|	**Ni -1**	60	5172.9	0.6	**1.4311**	0.019	1.3	ug/L	155	Standard
|	**Ni -2**	62	158983.1	2.5	**212.4137**	2.815	1.3	ug/L	26155	Standard
|	**Cu**	63	751762.0	1.9	**89.8908**	0.646	0.7	ug/L	25402	Standard
|	**Cu -1**	65	255568.6	1.9	**69.2627**	0.345	0.5	ug/L	479	Standard
|	**Zn**	66	152776.9	2.3	**74.6803**	1.016	1.4	ug/L	604	Standard
|	**Zn -1**	67	23512.3	1.8	**68.9796**	0.289	0.4	ug/L	115	Standard
|	**Zn -2**	68	100878.1	2.5	**69.0138**	0.792	1.1	ug/L	605	Standard
|	**As**	75	16401.7	2.8	**2.2190**	0.130	5.9	ug/L	12853	Standard
|	**As-1**	75	1682.4	11.4	**0.8049**	0.093	11.5	ug/L	-4	Standard
|	**Se**	77	4026.6	8.0	**28.8493**	1.954	6.8	ug/L	98	Standard
|	**Se -1**	78	15873.5	2.4	**9.2444**	0.362	3.9	ug/L	12897	Standard
|	**Br**	79	411440.0	2.4				ug/L	2838	Standard
|	**Se -2**	82	476.3	3.5	**2.4357**	0.119	4.9	ug/L	35	Standard
	Kr	83	137.0	3.9				ug/L	29	Standard
	Y	89	550279.3	2.2				ug/L	601935	Standard
|	**Rh**	103	92855.7	3.3				ug/L	108502	Standard
|	**Ni -3**	58	2737.6	2.1	**1.2884**	0.021	1.6	ug/L	68	KED
|	**Ni -4**	60	1051.0	0.7	**1.1321**	0.004	0.4	ug/L	30	KED
|	**Ni -5**	62	189.3	5.3	**1.3648**	0.072	5.2	ug/L	9	KED
|	**Cu -2**	63	168669.3	0.8	**71.7627**	0.237	0.3	ug/L	172	KED
|	**Cu -3**	65	78083.8	1.0	**70.0098**	0.496	0.7	ug/L	89	KED
|	**Zn -3**	66	19018.7	1.3	**70.4847**	0.788	1.1	ug/L	65	KED
|	**Zn -4**	67	2863.3	0.3	**63.7656**	0.507	0.8	ug/L	10	KED
|	**Zn -5**	68	13521.1	1.0	**66.9198**	0.299	0.4	ug/L	39	KED
|	**As-2**	75	79.7	3.2	**0.4155**	0.012	2.9	ug/L	1	KED
	Y-1	89	57977.1	0.9				ug/L	50921	KED
	Rh-1	103	38187.6	0.7				ug/L	32421	KED
| >	**Ge**	72	369345.9	1.4				ug/L	400120	Standard
| >	**In**	115	377959.4	1.8				ug/L	376660	Standard
| >	**Ge-1**	72	27066.3	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	92.309
| >	In	115	100.345
| >	Ge-1	72	123.761

Quantitative Analysis - Summary Report

Sample ID: 05-311-02b 10X

Sample Date/Time: Saturday, June 01, 2024 15:00:56
Report Date/Time: Saturday, June 01, 2024 15:03:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-02b 10X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-878.8	13.5	**0.2537**	0.014	5.5	ug/L	-4073	Standard
|	**Ni -1**	60	4819.8	0.8	**1.5281**	0.017	1.1	ug/L	155	Standard
|	**Ni -2**	62	268384.8	2.3	**438.2181**	3.635	0.8	ug/L	26155	Standard
|	**Cu**	63	435725.8	2.9	**58.9444**	0.849	1.4	ug/L	25402	Standard
|	**Cu -1**	65	5358.0	3.2	**1.6317**	0.032	2.0	ug/L	479	Standard
|	**Zn**	66	6172.3	3.4	**3.2252**	0.071	2.2	ug/L	604	Standard
|	**Zn -1**	67	4127.9	1.9	**13.6800**	0.103	0.8	ug/L	115	Standard
|	**Zn -2**	68	3816.5	3.5	**2.6437**	0.064	2.4	ug/L	605	Standard
|	**As**	75	21323.1	2.7	**6.1043**	0.143	2.3	ug/L	12853	Standard
|	**As-1**	75	5638.1	2.1	**3.1021**	0.069	2.2	ug/L	-4	Standard
|	**Se**	77	21344.9	2.9	**178.4497**	2.648	1.5	ug/L	98	Standard
|	**Se -1**	78	20035.7	2.9	**24.9245**	0.702	2.8	ug/L	12897	Standard
|	**Br**	79	1707279.7	2.8				ug/L	2838	Standard
|	**Se -2**	82	1736.8	1.5	**10.6760**	0.140	1.3	ug/L	35	Standard
	Kr	83	806.4	7.9				ug/L	29	Standard
	Y	89	477406.4	0.3				ug/L	601935	Standard
|	**Rh**	103	80060.1	1.4				ug/L	108502	Standard
|	**Ni -3**	58	1180.3	3.5	**0.6301**	0.028	4.5	ug/L	68	KED
|	**Ni -4**	60	507.7	9.1	**0.6222**	0.062	10.0	ug/L	30	KED
|	**Ni -5**	62	145.3	6.2	**1.1944**	0.074	6.2	ug/L	9	KED
|	**Cu -2**	63	2282.5	3.3	**1.0818**	0.026	2.4	ug/L	172	KED
|	**Cu -3**	65	1054.0	4.9	**1.0535**	0.042	4.0	ug/L	89	KED
|	**Zn -3**	66	618.3	1.9	**2.4279**	0.075	3.1	ug/L	65	KED
|	**Zn -4**	67	104.0	23.0	**2.3844**	0.616	25.8	ug/L	10	KED
|	**Zn -5**	68	485.7	2.7	**2.4637**	0.048	1.9	ug/L	39	KED
|	**As-2**	75	62.7	8.8	**0.3717**	0.035	9.3	ug/L	1	KED
	Y-1	89	50708.8	1.0				ug/L	50921	KED
	Rh-1	103	32304.2	0.2				ug/L	32421	KED
|>	**Ge**	72	322435.4	1.6				ug/L	400120	Standard
|>	**In**	115	329362.6	1.4				ug/L	376660	Standard
|>	**Ge-1**	72	23781.4	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	80.585
|>	In	115	87.443
|>	Ge-1	72	108.741

Quantitative Analysis - Summary Report

Sample ID: 05-311-03b 10X

Sample Date/Time: Saturday, June 01, 2024 15:05:35
Report Date/Time: Saturday, June 01, 2024 15:07:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-03b 10X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-29.8	1370.4	0.3648	0.041	11.2	ug/L	-4073	Standard
|	Ni -1	60	1946.5	2.6	0.4696	0.006	1.3	ug/L	155	Standard
|	Ni -2	62	391223.7	1.5	497.4556	1.334	0.3	ug/L	26155	Standard
|	Cu	63	414522.9	2.0	42.7675	0.286	0.7	ug/L	25402	Standard
|	Cu -1	65	6267.4	1.1	1.4723	0.004	0.3	ug/L	479	Standard
|	Zn	66	5188.9	2.4	2.0110	0.030	1.5	ug/L	604	Standard
|	Zn -1	67	1707.4	7.0	4.2127	0.371	8.8	ug/L	115	Standard
|	Zn -2	68	3801.8	1.1	1.9525	0.023	1.2	ug/L	605	Standard
|	As	75	24529.6	1.5	4.7962	0.289	6.0	ug/L	12853	Standard
|	As-1	75	4125.1	5.3	1.7517	0.076	4.4	ug/L	-4	Standard
|	Se	77	2485.9	9.7	15.5083	1.771	11.4	ug/L	98	Standard
|	Se -1	78	20798.5	2.2	14.8890	1.453	9.8	ug/L	12897	Standard
|	Br	79	94325.4	0.4				ug/L	2838	Standard
|	Se -2	82	185.3	7.2	0.7337	0.054	7.3	ug/L	35	Standard
	Kr	83	254.7	8.9				ug/L	29	Standard
	Y	89	583625.9	1.5				ug/L	601935	Standard
|	Rh	103	105488.4	1.6				ug/L	108502	Standard
|	Ni -3	58	1519.2	2.7	0.7150	0.024	3.3	ug/L	68	KED
|	Ni -4	60	417.0	3.1	0.4498	0.018	4.1	ug/L	30	KED
|	Ni -5	62	127.0	6.9	0.9231	0.062	6.7	ug/L	9	KED
|	Cu -2	63	2986.6	2.9	1.2507	0.021	1.7	ug/L	172	KED
|	Cu -3	65	1399.1	1.3	1.2362	0.032	2.6	ug/L	89	KED
|	Zn -3	66	545.3	1.7	1.8440	0.004	0.2	ug/L	65	KED
|	Zn -4	67	103.0	10.3	2.0486	0.271	13.2	ug/L	10	KED
|	Zn -5	68	434.0	4.4	1.8791	0.077	4.1	ug/L	39	KED
|	As-2	75	331.0	3.9	1.7432	0.092	5.3	ug/L	1	KED
	Y-1	89	58331.5	1.4				ug/L	50921	KED
	Rh-1	103	37739.8	1.8				ug/L	32421	KED
| >	Ge	72	417195.9	1.4				ug/L	400120	Standard
| >	In	115	397560.3	1.7				ug/L	376660	Standard
| >	Ge-1	72	26995.5	1.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	104.268
| >	In	115	105.549
| >	Ge-1	72	123.438

Quantitative Analysis - Summary Report

Sample ID: 05-311-04c 10X

Sample Date/Time: Saturday, June 01, 2024 15:10:14
Report Date/Time: Saturday, June 01, 2024 15:12:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-04c 10X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5021.7	3.0	**-0.3558**	0.018	5.0	ug/L	-4073	Standard
|	**Ni -1**	60	3619.5	5.3	**1.2733**	0.059	4.6	ug/L	155	Standard
|	**Ni -2**	62	414607.9	1.1	**773.6459**	12.823	1.7	ug/L	26155	Standard
|	**Cu**	63	627925.6	0.8	**95.7425**	1.293	1.4	ug/L	25402	Standard
|	**Cu -1**	65	6710.9	0.6	**2.2848**	0.036	1.6	ug/L	479	Standard
|	**Zn**	66	6310.7	2.4	**3.6990**	0.108	2.9	ug/L	604	Standard
|	**Zn -1**	67	3896.9	4.2	**14.3693**	0.702	4.9	ug/L	115	Standard
|	**Zn -2**	68	3757.8	2.4	**2.9283**	0.089	3.0	ug/L	605	Standard
|	**As**	75	22066.8	1.9	**7.8832**	0.245	3.1	ug/L	12853	Standard
|	**As-1**	75	5916.1	2.7	**3.6181**	0.075	2.1	ug/L	-4	Standard
|	**Se**	77	19142.8	1.3	**177.9033**	2.290	1.3	ug/L	98	Standard
|	**Se -1**	78	20284.7	2.3	**31.3051**	1.285	4.1	ug/L	12897	Standard
|	**Br**	79	1476022.9	3.0				ug/L	2838	Standard
|	**Se -2**	82	1652.1	4.4	**11.2952**	0.458	4.1	ug/L	35	Standard
	Kr	83	900.7	1.2				ug/L	29	Standard
	Y	89	415991.4	1.3				ug/L	601935	Standard
|	**Rh**	103	72744.5	2.2				ug/L	108502	Standard
|	**Ni -3**	58	371.4	5.6	**0.2275**	0.012	5.1	ug/L	68	KED
|	**Ni -4**	60	163.3	9.6	**0.2317**	0.022	9.4	ug/L	30	KED
|	**Ni -5**	62	103.7	11.3	**0.9931**	0.115	11.5	ug/L	9	KED
|	**Cu -2**	63	3024.3	0.4	**1.6790**	0.021	1.2	ug/L	172	KED
|	**Cu -3**	65	1319.4	2.9	**1.5428**	0.032	2.1	ug/L	89	KED
|	**Zn -3**	66	627.3	5.8	**2.8953**	0.165	5.7	ug/L	65	KED
|	**Zn -4**	67	110.3	14.9	**2.9964**	0.444	14.8	ug/L	10	KED
|	**Zn -5**	68	455.0	2.5	**2.7084**	0.097	3.6	ug/L	39	KED
|	**As-2**	75	37.7	18.1	**0.2588**	0.050	19.2	ug/L	1	KED
	Y-1	89	44224.7	1.2				ug/L	50921	KED
	Rh-1	103	28216.8	1.4				ug/L	32421	KED
| >	**Ge**	72	290097.0	0.9				ug/L	400120	Standard
| >	**In**	115	292772.9	1.2				ug/L	376660	Standard
| >	**Ge-1**	72	20463.6	1.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	72.503
| >	In	115	77.729
| >	Ge-1	72	93.571

Quantitative Analysis - Summary Report

Sample ID: 05-311-05c 10X

Sample Date/Time: Saturday, June 01, 2024 15:14:53
Report Date/Time: Saturday, June 01, 2024 15:17:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-05c 10X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-4429.8	1.3	**-0.1270**	0.008	6.3	ug/L	-4073	Standard
|	**Ni -1**	60	3880.2	2.2	**1.0561**	0.003	0.3	ug/L	155	Standard
|	**Ni -2**	62	347385.2	2.4	**492.1690**	22.299	4.5	ug/L	26155	Standard
|	**Cu**	63	548135.9	1.6	**64.0780**	2.311	3.6	ug/L	25402	Standard
|	**Cu -1**	65	7048.7	2.1	**1.8532**	0.010	0.5	ug/L	479	Standard
|	**Zn**	66	7326.9	2.8	**3.3026**	0.037	1.1	ug/L	604	Standard
|	**Zn -1**	67	4392.0	0.7	**12.5173**	0.193	1.5	ug/L	115	Standard
|	**Zn -2**	68	4187.9	2.4	**2.4787**	0.022	0.9	ug/L	605	Standard
|	**As**	75	22693.4	1.5	**5.1189**	0.048	0.9	ug/L	12853	Standard
|	**As-1**	75	6323.7	11.3	**2.9931**	0.293	9.8	ug/L	-4	Standard
|	**Se**	77	22738.8	1.8	**163.6885**	1.208	0.7	ug/L	98	Standard
|	**Se -1**	78	21123.3	0.4	**20.2620**	1.016	5.0	ug/L	12897	Standard
|	**Br**	79	1667226.9	2.2				ug/L	2838	Standard
|	**Se -2**	82	1896.5	7.5	**10.0264**	0.665	6.6	ug/L	35	Standard
	Kr	83	1189.4	3.5				ug/L	29	Standard
	Y	89	525627.0	0.8				ug/L	601935	Standard
|	**Rh**	103	92285.5	1.4				ug/L	108502	Standard
|	**Ni -3**	58	418.0	3.6	**0.1959**	0.006	3.0	ug/L	68	KED
|	**Ni -4**	60	170.3	8.4	**0.1853**	0.016	8.6	ug/L	30	KED
|	**Ni -5**	62	88.0	6.9	**0.6526**	0.048	7.4	ug/L	9	KED
|	**Cu -2**	63	3101.0	1.4	**1.3165**	0.019	1.4	ug/L	172	KED
|	**Cu -3**	65	1410.4	1.2	**1.2622**	0.008	0.6	ug/L	89	KED
|	**Zn -3**	66	701.7	3.7	**2.4595**	0.082	3.3	ug/L	65	KED
|	**Zn -4**	67	121.0	15.8	**2.4854**	0.443	17.8	ug/L	10	KED
|	**Zn -5**	68	504.7	1.3	**2.2636**	0.031	1.4	ug/L	39	KED
|	**As-2**	75	41.3	7.8	**0.2171**	0.017	7.6	ug/L	1	KED
	Y-1	89	57049.4	1.1				ug/L	50921	KED
	Rh-1	103	35836.9	0.3				ug/L	32421	KED
| >	**Ge**	72	374406.7	1.9				ug/L	400120	Standard
| >	**In**	115	376243.7	1.5				ug/L	376660	Standard
| >	**Ge-1**	72	26656.5	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	93.574
|>	In	115	99.889
|>	Ge-1	72	121.888

Quantitative Analysis - Summary Report

Sample ID: 05-311-03c 10X FFD

Sample Date/Time: Saturday, June 01, 2024 15:19:32
Report Date/Time: Saturday, June 01, 2024 15:21:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-03c 10X FFD.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	452.0	166.1	**0.4145**	0.078	18.9	ug/L	-4073	Standard
|	**Ni -1**	60	1836.5	4.1	**0.4583**	0.019	4.1	ug/L	155	Standard
|	**Ni -2**	62	322568.8	7.1	**419.9498**	27.512	6.6	ug/L	26155	Standard
|	**Cu**	63	345815.1	8.0	**36.6085**	2.743	7.5	ug/L	25402	Standard
|	**Cu -1**	65	3898.9	3.4	**0.9362**	0.029	3.1	ug/L	479	Standard
|	**Zn**	66	1909.5	2.6	**0.6163**	0.027	4.3	ug/L	604	Standard
|	**Zn -1**	67	1296.1	2.2	**3.2551**	0.085	2.6	ug/L	115	Standard
|	**Zn -2**	68	1421.7	2.6	**0.5332**	0.020	3.7	ug/L	605	Standard
|	**As**	75	26035.3	0.7	**5.8281**	0.088	1.5	ug/L	12853	Standard
|	**As-1**	75	3671.3	2.2	**1.6132**	0.027	1.7	ug/L	-4	Standard
|	**Se**	77	3349.1	6.2	**21.8566**	1.590	7.3	ug/L	98	Standard
|	**Se -1**	78	22820.9	0.3	**20.4041**	0.440	2.2	ug/L	12897	Standard
|	**Br**	79	111414.1	1.2				ug/L	2838	Standard
|	**Se -2**	82	213.0	7.4	**0.9038**	0.088	9.7	ug/L	35	Standard
	Kr	83	535.0	5.4				ug/L	29	Standard
	Y	89	574764.5	1.7				ug/L	601935	Standard
|	**Rh**	103	103782.7	2.3				ug/L	108502	Standard
|	**Ni -3**	58	1153.7	10.5	**0.5987**	0.054	9.0	ug/L	68	KED
|	**Ni -4**	60	319.0	3.4	**0.3800**	0.013	3.5	ug/L	30	KED
|	**Ni -5**	62	124.7	3.0	**1.0004**	0.041	4.1	ug/L	9	KED
|	**Cu -2**	63	1537.4	5.1	**0.7019**	0.048	6.8	ug/L	172	KED
|	**Cu -3**	65	686.3	2.8	**0.6602**	0.028	4.2	ug/L	89	KED
|	**Zn -3**	66	148.7	6.2	**0.4248**	0.045	10.6	ug/L	65	KED
|	**Zn -4**	67	32.0	8.3	**0.5295**	0.061	11.5	ug/L	10	KED
|	**Zn -5**	68	132.7	6.1	**0.4476**	0.051	11.5	ug/L	39	KED
|	**As-2**	75	285.3	4.7	**1.6601**	0.083	5.0	ug/L	1	KED
	Y-1	89	53702.4	1.5				ug/L	50921	KED
	Rh-1	103	33756.8	1.6				ug/L	32421	KED
| >	**Ge**	72	403166.5	0.9				ug/L	400120	Standard
| >	**In**	115	374372.2	1.8				ug/L	376660	Standard
| >	**Ge-1**	72	24427.2	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	100.761
|>	In	115	99.393
|>	Ge-1	72	111.694

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 15:24:12
Report Date/Time: Saturday, June 01, 2024 15:26:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	308971.0	1.4	**40.1423**	0.509	1.3	ug/L	-4073	Standard
|	**Ni -1**	60	124163.0	1.7	**39.3602**	0.661	1.7	ug/L	155	Standard
|	**Ni -2**	62	338495.1	5.7	**556.9901**	43.741	7.9	ug/L	26155	Standard
|	**Cu**	63	609195.7	3.5	**82.7702**	4.485	5.4	ug/L	25402	Standard
|	**Cu -1**	65	126100.2	2.0	**38.8721**	0.251	0.6	ug/L	479	Standard
|	**Zn**	66	71406.1	2.0	**39.6039**	0.246	0.6	ug/L	604	Standard
|	**Zn -1**	67	12076.1	1.5	**40.2160**	0.516	1.3	ug/L	115	Standard
|	**Zn -2**	68	50679.4	2.0	**39.2982**	0.332	0.8	ug/L	605	Standard
|	**As**	75	86108.9	0.6	**41.7363**	0.797	1.9	ug/L	12853	Standard
|	**As-1**	75	69480.4	0.4	**38.0254**	0.578	1.5	ug/L	-4	Standard
|	**Se**	77	5965.2	1.6	**49.1110**	1.708	3.5	ug/L	98	Standard
|	**Se -1**	78	32413.4	0.8	**55.8142**	1.083	1.9	ug/L	12897	Standard
|	**Br**	79	22747.4	4.1				ug/L	2838	Standard
|	**Se -2**	82	6241.7	3.0	**38.5208**	1.054	2.7	ug/L	35	Standard
	Kr	83	225.3	16.2				ug/L	29	Standard
	Y	89	462703.8	2.2				ug/L	601935	Standard
|	**Rh**	103	86425.7	1.5				ug/L	108502	Standard
|	**Ni -3**	58	59888.4	0.8	**39.6749**	1.035	2.6	ug/L	68	KED
|	**Ni -4**	60	26236.7	1.1	**39.6800**	0.484	1.2	ug/L	30	KED
|	**Ni -5**	62	3903.2	0.3	**39.0309**	0.699	1.8	ug/L	9	KED
|	**Cu -2**	63	64578.3	0.1	**38.5303**	0.710	1.8	ug/L	172	KED
|	**Cu -3**	65	30472.1	0.7	**38.3117**	0.488	1.3	ug/L	89	KED
|	**Zn -3**	66	7513.6	1.2	**38.9758**	0.751	1.9	ug/L	65	KED
|	**Zn -4**	67	1231.4	2.2	**38.3560**	0.754	2.0	ug/L	10	KED
|	**Zn -5**	68	5646.1	1.5	**39.0747**	0.268	0.7	ug/L	39	KED
|	**As-2**	75	5140.6	1.6	**37.9267**	0.183	0.5	ug/L	1	KED
	Y-1	89	43242.7	0.7				ug/L	50921	KED
	Rh-1	103	27724.5	1.8				ug/L	32421	KED
|>	**Ge**	72	324610.1	1.8				ug/L	400120	Standard
|>	**In**	115	298631.8	0.9				ug/L	376660	Standard
|>	**Ge-1**	72	19300.0	1.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.356	
|	Ni -1	60	98.400	
|	Ni -2	62	1392.475	
|	Cu	63	206.926	
|	Cu -1	65	97.180	
|	Zn	66	99.010	
|	Zn -1	67	100.540	
|	Zn -2	68	98.245	
|	As	75	104.341	
|	As-1	75	95.063	
|	Se	77	122.777	
|	Se -1	78	139.535	
|	Br	79		

|	Se -2	82	96.302	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	99.187	
|	Ni -4	60	99.200	
|	Ni -5	62	97.577	
|	Cu -2	63	96.326	
|	Cu -3	65	95.779	
|	Zn -3	66	97.439	
|	Zn -4	67	95.890	
|	Zn -5	68	97.687	
|	As-2	75	94.817	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		81.128
| >	In	115		79.284
| >	Ge-1	72		88.250

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 15:28:53
Report Date/Time: Saturday, June 01, 2024 15:31:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	172435.7	0.9	**20.1093**	0.178	0.9	ug/L	-4073	Standard
|	**Ni -1**	60	71725.3	0.9	**20.2155**	0.107	0.5	ug/L	155	Standard
|	**Ni -2**	62	175904.5	1.4	**241.4276**	6.835	2.8	ug/L	26155	Standard
|	**Cu**	63	326766.1	0.8	**38.3288**	0.722	1.9	ug/L	25402	Standard
|	**Cu -1**	65	72500.5	1.8	**19.8621**	0.335	1.7	ug/L	479	Standard
|	**Zn**	66	41119.4	0.4	**20.1670**	0.201	1.0	ug/L	604	Standard
|	**Zn -1**	67	6875.3	2.1	**20.2441**	0.451	2.2	ug/L	115	Standard
|	**Zn -2**	68	29163.1	0.4	**19.9368**	0.196	1.0	ug/L	605	Standard
|	**As**	75	55265.1	1.5	**21.3616**	0.232	1.1	ug/L	12853	Standard
|	**As-1**	75	39976.4	2.0	**19.4513**	0.170	0.9	ug/L	-4	Standard
|	**Se**	77	3425.7	1.2	**24.7690**	0.446	1.8	ug/L	98	Standard
|	**Se -1**	78	24537.7	0.5	**29.1035**	0.643	2.2	ug/L	12897	Standard
|	**Br**	79	14113.6	0.7				ug/L	2838	Standard
|	**Se -2**	82	3665.5	1.8	**20.0412**	0.162	0.8	ug/L	35	Standard
	Kr	83	100.0	13.2				ug/L	29	Standard
	Y	89	531729.4	0.8				ug/L	601935	Standard
|	**Rh**	103	97557.0	0.8				ug/L	108502	Standard
|	**Ni -3**	58	33387.4	1.1	**19.9609**	0.092	0.5	ug/L	68	KED
|	**Ni -4**	60	14445.3	2.3	**19.7202**	0.322	1.6	ug/L	30	KED
|	**Ni -5**	62	2175.2	2.6	**19.6401**	0.393	2.0	ug/L	9	KED
|	**Cu -2**	63	36886.9	2.7	**19.8537**	0.463	2.3	ug/L	172	KED
|	**Cu -3**	65	17214.0	0.8	**19.5270**	0.210	1.1	ug/L	89	KED
|	**Zn -3**	66	4381.7	1.1	**20.4287**	0.221	1.1	ug/L	65	KED
|	**Zn -4**	67	714.0	7.2	**19.9518**	1.409	7.1	ug/L	10	KED
|	**Zn -5**	68	3128.0	1.5	**19.4015**	0.168	0.9	ug/L	39	KED
|	**As-2**	75	2797.6	4.0	**18.6358**	0.840	4.5	ug/L	1	KED
	Y-1	89	47181.8	1.2				ug/L	50921	KED
	Rh-1	103	30327.2	0.8				ug/L	32421	KED
| >	**Ge**	72	364989.4	1.4				ug/L	400120	Standard
| >	**In**	115	333450.0	1.5				ug/L	376660	Standard
| >	**Ge-1**	72	21376.3	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.546	
|	Ni -1	60	101.077	
|	Ni -2	62	1207.138	
|	Cu	63	191.644	
|	Cu -1	65	99.311	
|	Zn	66	100.835	
|	Zn -1	67	101.221	
|	Zn -2	68	99.684	
|	As	75	106.808	
|	As-1	75	97.256	
|	Se	77	123.845	
|	Se -1	78	145.518	
|	Br	79		

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 15:33:34
Report Date/Time: Saturday, June 01, 2024 15:35:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5502.6	0.7	**-0.2719**	0.010	3.8	ug/L	-4073	Standard
|	**Ni -1**	60	163.3	5.7	**0.0362**	0.003	7.2	ug/L	155	Standard
|	**Ni -2**	62	127145.6	0.2	**169.2425**	1.735	1.0	ug/L	26155	Standard
|	**Cu**	63	129432.7	0.1	**14.1070**	0.134	1.0	ug/L	25402	Standard
|	**Cu -1**	65	735.7	4.3	**0.1726**	0.007	4.0	ug/L	479	Standard
|	**Zn**	66	717.0	1.9	**0.1195**	0.010	8.4	ug/L	604	Standard
|	**Zn -1**	67	242.3	9.0	**0.4921**	0.066	13.5	ug/L	115	Standard
|	**Zn -2**	68	657.3	0.1	**0.1017**	0.004	3.8	ug/L	605	Standard
|	**As**	75	15063.8	0.9	**1.7690**	0.026	1.5	ug/L	12853	Standard
|	**As-1**	75	-47.6	272.5	**-0.0282**	0.064	227.3	ug/L	-4	Standard
|	**Se**	77	515.3	6.7	**3.2515**	0.294	9.0	ug/L	98	Standard
|	**Se -1**	78	15201.1	0.2	**8.6695**	0.282	3.2	ug/L	12897	Standard
|	**Br**	79	11603.4	0.6				ug/L	2838	Standard
|	**Se -2**	82	57.7	9.6	**0.1629**	0.028	17.3	ug/L	35	Standard
	Kr	83	63.0	17.5				ug/L	29	Standard
	Y	89	522005.8	1.1				ug/L	601935	Standard
|	**Rh**	103	96265.9	0.8				ug/L	108502	Standard
|	**Ni -3**	58	75.0	3.4	**0.0409**	0.002	4.5	ug/L	68	KED
|	**Ni -4**	60	35.0	10.3	**0.0472**	0.005	11.1	ug/L	30	KED
|	**Ni -5**	62	28.3	19.4	**0.2743**	0.050	18.1	ug/L	9	KED
|	**Cu -2**	63	212.3	8.3	**0.0922**	0.010	11.3	ug/L	172	KED
|	**Cu -3**	65	82.0	11.8	**0.0721**	0.012	16.3	ug/L	89	KED
|	**Zn -3**	66	68.3	5.9	**0.1378**	0.022	15.8	ug/L	65	KED
|	**Zn -4**	67	8.0	25.0	**-0.0341**	0.057	166.4	ug/L	10	KED
|	**Zn -5**	68	47.3	31.7	**0.0179**	0.095	530.4	ug/L	39	KED
|	**As-2**	75	2.7	21.7	**0.0143**	0.004	27.1	ug/L	1	KED
	Y-1	89	46932.6	0.8				ug/L	50921	KED
	Rh-1	103	29947.4	1.2				ug/L	32421	KED
|>	**Ge**	72	359629.0	0.9				ug/L	400120	Standard
|>	**In**	115	329065.3	0.8				ug/L	376660	Standard
|>	**Ge-1**	72	21119.3	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	89.880
|>	In	115	87.364
|>	Ge-1	72	96.568

14 TITLE

PROJECT NO.

BOOK NO.

Work continued from Page

	Std Name	Lab ID	Source	Source ID	Exp	Initial Conc ppm	Initial Vol mL	Final Conc ppm	Final Vol mL	Comments	Prep	Date
	6020 10x	TM12-014-01	IV 6020 Cal-1	T2MEB726406	2-9-25	20	.5 / 1.0	2	50	8% HNO_3	Kam	5-28-24
	6020 100x	TM12-014-02	↓	↓	↓	1	0.1	.2	↓	↓	↓	↓
5	Std 1	TM12 014-03	6020 100x	T12-014-02	6-11-24	.2	.05	.0002	50	5% HNO_3	Kam	5-30-24
	2	04	↓	↓		↓	.175	.0005				
	3	05	6020 10x	T12-014-01		2	.05	.002				
	4	06	IV 6020 Cal-1	↓	↓	↓	.125	.005				
	5	07	↓	T2MEB726406	2-9-25	20	.05	.02				
10	6	08	↓	↓	↓	↓	.10	.04				
	7	09	↓	↓	↓	↓	.25	.10				
	IV *	16	IV PECH K	T2MEB724233	5-28-25	10	.25	.05	↓	↓	↓	↓
	Std 1	TM12-014-11	6020 100x	T12 014-02	6-11-24	.2	.05	.0002	50	5% HNO_3	Kam	5-30-24
	2	12	↓	↓		↓	.125	.0025				
15	3	13	6020 10x	T12-014-01		2	.05	.002				
	4	14	↓	↓		↓	.125	.005				
	5	15	IV 6020 Cal-1	T2MEB726406	2-9-25	20	.05	.02				
	6	16	↓	↓	↓	↓	.10	.04				
	7	17	↓	↓	↓	↓	.25	.10				
20	IV	18	IV PECH K	T2MEB724233	5-28-25	10	.25	.05	↓	↓	↓	↓
	Std 1	TM12-014-19	6020 100x	T12-014-02	6-11-24	.2	.05	.0002	50	5% HNO_3	Kam	6-3-24
	2	20	↓	↓		↓	.125	.0005				
	3	21	6020 10x	T12-014-01		2	.05	.002				
	4	22	↓	↓		↓	.125	.005				
25	5	23	IV 6020 Cal-1	T2MEB726406	2-9-25	20	.05	.02				
	6	24	↓	↓	↓	↓	.10	.04				
	7	25	↓	↓	↓	↓	.25	.10				
	IV	26	IV PECH K	T2MEB724233	5-28-25	10	.25	.05	↓	↓	↓	↓

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Work continued to Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

DIGESTION DATE:	5-29-24
ANALYST:	KDM

QC BATCH #:	05-300-075
MATRIX:	water
ANALYSIS METHOD:	3015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MB0529WM1	45mL	50			
SB 0529 WM1	↓	↓			
05-300-075					
07LD					
07LMS					
07LMSD					
05-286-02c					
04c					
05-311-01b					
02b					
03b					
04c					
05c					
05-311-03c	↓	↓			FF solids

SPIKE ID# JV6020(al-1) VOL ADDED: .25mL

Dissolved Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

5-31-24
tpm

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\
Report Date/Time: Friday, May 31, 2024 16:11:30

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Sample	12:37:38 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Sample	12:43:19 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Blank	12:50:17 Fri 31-Ma	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 1	12:55:07 Fri 31-Ma	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 2	12:59:58 Fri 31-Ma	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 3	13:04:49 Fri 31-Ma	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 4	13:09:40 Fri 31-Ma	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 5	13:14:31 Fri 31-Ma	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 6	13:19:22 Fri 31-Ma	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 7	13:24:12 Fri 31-Ma	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 1	13:29:53 Fri 31-Ma	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 2	13:35:34 Fri 31-Ma	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	13:40:27 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	13:46:08 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	13:51:49 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	MB0529WM1 2X	13:56:40 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	SB0529WM1 2X	14:02:20 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07b 2X	14:08:00 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07bD 2X	14:13:39 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07bL 10X	14:19:56 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07bMS 2X	14:25:35 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07bMSD 2X	14:31:15 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-300-07bPS 2X	14:36:55 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-353-02k 2X	14:42:36 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-353-07k 2X	14:48:16 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	14:53:57 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	14:59:38 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	15:05:20 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-353-10k 2X	15:11:02 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-353-15k 2X	15:16:42 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-330-02c 2X 29WH	15:22:22 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-335-01 10X	15:28:02 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-335-02 10X	15:33:42 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-335-03 10X	15:39:21 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-335-04 10X	15:45:01 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	05-335-05 10X	15:50:40 Fri 31-Ma	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	15:56:21 Fri 31-Ma	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	16:02:02 Fri 31-Ma	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	16:07:42 Fri 31-Ma	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, May 31, 2024 07:00:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\05MAY24\Y240531A\[STD] Performance Check.003
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	60966.2	60966.226	664.149	1.1	Standard
	In	114.9	372756.9	372756.943	307.370	0.1	Standard
	U	238.1	395564.4	395564.394	3631.895	0.9	Standard
Ce	CeO	155.9	11058.3	0.024	0.000	2.0	Standard
Ce	Ce++	70.0	12977.2	0.029	0.000	0.5	Standard
	Bkgd	220.5	0.4	0.400	0.253	63.2	Standard
	Ce	139.9	452141.0	452140.981	1713.129	0.4	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
1.00	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
1.00	Ammonia DRC - DRC Mode NEB
2.00	Ammonia DRC - Hyperskimmer Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Helium KED - Hyperskimmer Park Voltage
5.00	Helium KED - OmniRing Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:00:04 Fri 31-May-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	6.975	1222	2062	0.696	
Mg	23.985	23.975	4579	2063	0.715	
In	114.904	114.875	22592	2066	0.719	
Pb	207.977	207.975	41052	2066	0.719	
U	238.050	238.075	47019	2067	0.724	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Cr	51.941	Weighted Linear	0.03	-0.00	0.999593
Cr -1	52.941	Weighted Linear	0.00	-0.00	0.998856
Ni	57.935	Weighted Linear	0.03	0.01	0.999330
Ni -1	59.933	Weighted Linear	0.01	-0.00	0.998532
Ni -2	61.928	Weighted Linear	0.00	-0.00	0.997156
Cu	62.930	Weighted Linear	0.02	-0.00	0.998239
Cu -1	64.928	Weighted Linear	0.01	-0.00	0.998509
Zn	65.926	Weighted Linear	0.01	0.00	0.998793
Zn -1	66.927	Weighted Linear	0.00	0.00	0.998483
Zn -2	67.925	Weighted Linear	0.00	-0.00	0.999251
As	74.922	Weighted Linear	0.01	0.00	0.999172
As-1	74.922	Weighted Linear	0.01	0.00	0.998848
Se	76.920	Weighted Linear	0.00	0.00	0.999796
Se -1	77.917	Weighted Linear	0.00	-0.00	0.999029
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	-0.00	0.999418
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Cd	110.904	Weighted Linear	0.01	0.00	0.998556
Cd -1	113.904	Weighted Linear	0.02	0.00	0.998819
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.07	0.00	0.998870
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Cr -2	51.941	Weighted Linear	0.07	0.00	0.999112
Cr -3	52.941	Weighted Linear	0.01	0.00	0.997333
Ni -3	57.935	Weighted Linear	0.09	-0.00	0.998625
Ni -4	59.933	Weighted Linear	0.04	-0.00	0.999076
Ni -5	61.928	Weighted Linear	0.01	-0.00	0.997681
Cu -2	62.930	Weighted Linear	0.10	-0.00	0.998337
Cu -3	64.928	Weighted Linear	0.05	-0.00	0.998050
Zn -3	65.926	Weighted Linear	0.01	0.00	0.998330
Zn -4	66.927	Weighted Linear	0.00	0.00	0.999388
Zn -5	67.925	Weighted Linear	0.01	0.00	0.999687
As-2	74.922	Weighted Linear	0.01	-0.00	0.998560
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Cd -2	110.904	Weighted Linear	0.01	0.00	0.998664
Cd -3	113.904	Weighted Linear	0.04	0.00	0.998593
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, May 31, 2024 12:50:17
Report Date/Time: Friday, May 31, 2024 12:53:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Blank.003

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	23727.7	1.5				ug/L		Standard
|	Cr -1	53	4227.3	2.3				ug/L		Standard
|	Ni	58	-9346.7	2.1				ug/L		Standard
|	Ni -1	60	242.0	8.3				ug/L		Standard
|	Ni -2	62	1958.5	3.7				ug/L		Standard
|	Cu	63	2501.9	2.0				ug/L		Standard
|	Cu -1	65	483.3	3.5				ug/L		Standard
|	Zn	66	770.4	2.3				ug/L		Standard
|	Zn -1	67	161.3	4.7				ug/L		Standard
|	Zn -2	68	753.7	1.8				ug/L		Standard
|	As	75	12256.1	1.2				ug/L		Standard
|	As-1	75	25.3	89.5				ug/L		Standard
|	Se	77	145.0	8.5				ug/L		Standard
|	Se -1	78	12290.6	1.1				ug/L		Standard
|	Br	79	304.0	2.0				ug/L		Standard
|	Se -2	82	41.7	9.7				ug/L		Standard
	Kr	83	35.7	16.2				ug/L		Standard
	Y	89	618385.9	1.1				ug/L		Standard
|	Rh	103	111544.1	0.2				ug/L		Standard
|	Cd	111	192.5	2.8				ug/L		Standard
|	Cd -1	114	22.9	1.6				ug/L		Standard
|	Ho	165	521140.0	0.2				ug/L		Standard
|	Pb	208	518.0	6.4				ug/L		Standard
|	Bi	209	295515.6	2.9				ug/L		Standard
|	Th	232	378918.0	1.9				ug/L		Standard
|	Cr -2	52	283.0	3.9				ug/L		KED
|	Cr -3	53	38.0	9.5				ug/L		KED
|	Ni -3	58	148.2	13.2				ug/L		KED
|	Ni -4	60	58.0	12.1				ug/L		KED
|	Ni -5	62	12.3	24.8				ug/L		KED
|	Cu -2	63	286.7	5.5				ug/L		KED
|	Cu -3	65	136.0	8.9				ug/L		KED
|	Zn -3	66	93.3	8.2				ug/L		KED
|	Zn -4	67	15.3	27.2				ug/L		KED
|	Zn -5	68	67.7	6.2				ug/L		KED
|	As-2	75	3.0	33.3				ug/L		KED
	Y-1	89	64897.4	0.5				ug/L		KED
	Rh-1	103	44712.2	0.5				ug/L		KED
|	Cd -2	111	3.7	15.7				ug/L		KED
|	Cd -3	114	8.0	33.1				ug/L		KED
|>	Sc	45	772315.6	3.0				ug/L		Standard
|>	Ge	72	431845.8	1.6				ug/L		Standard
|>	In	115	412956.7	0.9				ug/L		Standard
|>	Tb	159	554760.7	0.7				ug/L		Standard
|>	Ge-1	72	30473.5	1.5				ug/L		KED
|>	In-1	115	42430.8	1.3				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, May 31, 2024 12:55:07
Report Date/Time: Friday, May 31, 2024 12:58:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 1.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	27698.5	1.0				ug/L	23728	Standard
|	Cr -1	53	4540.1	2.0				ug/L	4227	Standard
|	Ni	58	-6658.6	3.0				ug/L	-9347	Standard
|	Ni -1	60	1165.0	1.7				ug/L	242	Standard
|	Ni -2	62	1881.5	4.3				ug/L	1958	Standard
|	Cu	63	3910.9	2.9				ug/L	2502	Standard
|	Cu -1	65	1175.7	2.5				ug/L	483	Standard
|	Zn	66	791.7	6.0				ug/L	770	Standard
|	Zn -1	67	187.0	8.3				ug/L	161	Standard
|	Zn -2	68	756.7	4.2				ug/L	754	Standard
|	As	75	13422.1	2.6				ug/L	12256	Standard
|	As-1	75	533.6	3.0				ug/L	25	Standard
|	Se	77	178.7	3.9				ug/L	145	Standard
|	Se -1	78	13043.3	2.6				ug/L	12291	Standard
|	Br	79	269.7	2.2				ug/L	304	Standard
|	Se -2	82	80.0	10.0				ug/L	42	Standard
	Kr	83	28.7	2.0				ug/L	36	Standard
	Y	89	596057.4	1.7				ug/L	618386	Standard
|	Rh	103	107228.7	1.6				ug/L	111544	Standard
|	Cd	111	855.3	3.7				ug/L	192	Standard
|	Cd -1	114	1690.1	3.5				ug/L	23	Standard
|	Ho	165	537713.3	1.6				ug/L	521140	Standard
|	Pb	208	8841.7	1.8				ug/L	518	Standard
|	Bi	209	303803.3	1.0				ug/L	295516	Standard
|	Th	232	382000.4	0.6				ug/L	378918	Standard
|	Cr -2	52	759.0	3.8				ug/L	283	KED
|	Cr -3	53	97.3	2.1				ug/L	38	KED
|	Ni -3	58	594.7	4.7				ug/L	148	KED
|	Ni -4	60	265.7	7.0				ug/L	58	KED
|	Ni -5	62	41.7	3.7				ug/L	12	KED
|	Cu -2	63	735.4	2.5				ug/L	287	KED
|	Cu -3	65	346.7	1.0				ug/L	136	KED
|	Zn -3	66	101.7	9.1				ug/L	93	KED
|	Zn -4	67	15.7	35.2				ug/L	15	KED
|	Zn -5	68	72.0	13.2				ug/L	68	KED
|	As-2	75	49.3	3.1				ug/L	3	KED
	Y-1	89	63670.6	0.6				ug/L	64897	KED
	Rh-1	103	43501.5	0.4				ug/L	44712	KED
|	Cd -2	111	141.7	18.7				ug/L	4	KED
|	Cd -3	114	384.0	5.9				ug/L	8	KED
| >	Sc	45	738798.4	1.1				ug/L	772316	Standard
| >	Ge	72	437471.8	1.9				ug/L	431846	Standard
| >	In	115	414720.4	2.1				ug/L	412957	Standard
| >	Tb	159	564376.7	1.6				ug/L	554761	Standard
| >	Ge-1	72	29881.9	1.0				ug/L	30473	KED
| >	In-1	115	41503.7	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, May 31, 2024 12:59:58
Report Date/Time: Friday, May 31, 2024 13:03:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 2.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	34092.7	3.0				ug/L	23728	Standard
|	Cr -1	53	5035.9	0.7				ug/L	4227	Standard
|	Ni	58	-3305.3	6.8				ug/L	-9347	Standard
|	Ni -1	60	2431.9	2.4				ug/L	242	Standard
|	Ni -2	62	2126.5	1.9				ug/L	1958	Standard
|	Cu	63	6867.7	0.7				ug/L	2502	Standard
|	Cu -1	65	2523.9	0.4				ug/L	483	Standard
|	Zn	66	1512.7	2.5				ug/L	770	Standard
|	Zn -1	67	290.0	2.5				ug/L	161	Standard
|	Zn -2	68	1281.4	4.1				ug/L	754	Standard
|	As	75	14195.1	0.3				ug/L	12256	Standard
|	As-1	75	1143.1	2.8	**0.5000**	0.021	4.2	ug/L	25	Standard
|	Se	77	234.3	6.5				ug/L	145	Standard
|	Se -1	78	13346.6	0.5				ug/L	12291	Standard
|	Br	79	273.3	8.4				ug/L	304	Standard
|	Se -2	82	135.3	1.1				ug/L	42	Standard
	Kr	83	35.0	4.9				ug/L	36	Standard
	Y	89	604232.2	1.0				ug/L	618386	Standard
|	Rh	103	109399.8	2.5				ug/L	111544	Standard
|	Cd	111	1643.0	6.1	**0.5000**	0.036	7.1	ug/L	192	Standard
|	Cd -1	114	3797.1	1.4	**0.5000**	0.011	2.2	ug/L	23	Standard
|	Ho	165	545863.9	0.6				ug/L	521140	Standard
|	Pb	208	19238.7	1.1	**0.5000**	0.008	1.6	ug/L	518	Standard
|	Bi	209	309635.5	0.9				ug/L	295516	Standard
|	Th	232	392961.9	1.3				ug/L	378918	Standard
|	Cr -2	52	1384.7	0.9				ug/L	283	KED
|	Cr -3	53	178.3	12.2				ug/L	38	KED
|	Ni -3	58	1395.7	4.7				ug/L	148	KED
|	Ni -4	60	619.7	1.7				ug/L	58	KED
|	Ni -5	62	88.3	22.0				ug/L	12	KED
|	Cu -2	63	1576.1	1.0				ug/L	287	KED
|	Cu -3	65	714.0	3.9				ug/L	136	KED
|	Zn -3	66	180.0	3.3				ug/L	93	KED
|	Zn -4	67	30.3	16.6				ug/L	15	KED
|	Zn -5	68	136.7	7.3				ug/L	68	KED
|	As-2	75	106.3	12.2				ug/L	3	KED
	Y-1	89	64599.4	0.5				ug/L	64897	KED
	Rh-1	103	44311.3	0.5				ug/L	44712	KED
|	Cd -2	111	314.7	5.6	**0.5000**	0.031	6.2	ug/L	4	KED
|	Cd -3	114	825.4	4.6	**0.5000**	0.026	5.1	ug/L	8	KED
|>	Sc	45	754739.0	0.5				ug/L	772316	Standard
|>	Ge	72	441905.8	1.8				ug/L	431846	Standard
|>	In	115	419935.3	1.4				ug/L	412957	Standard
|>	Tb	159	573679.5	1.0				ug/L	554761	Standard
|>	Ge-1	72	30135.1	0.6				ug/L	30473	KED
|>	In-1	115	42337.4	0.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Friday, May 31, 2024 13:04:49
Report Date/Time: Friday, May 31, 2024 13:08:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 3.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	72780.3	1.7	**2.0000**	0.053	2.6	ug/L	23728	Standard
|	Cr -1	53	9809.7	2.8	**2.0000**	0.072	3.6	ug/L	4227	Standard
|	Ni	58	16361.1	3.1				ug/L	-9347	Standard
|	Ni -1	60	10378.4	2.2	**2.0000**	0.033	1.7	ug/L	242	Standard
|	Ni -2	62	3343.4	0.6	**2.0000**	0.086	4.3	ug/L	1958	Standard
|	Cu	63	24459.9	3.3	**2.0000**	0.038	1.9	ug/L	2502	Standard
|	Cu -1	65	10581.6	2.4	**2.0000**	0.031	1.5	ug/L	483	Standard
|	Zn	66	5926.6	4.4				ug/L	770	Standard
|	Zn -1	67	1050.0	8.2				ug/L	161	Standard
|	Zn -2	68	4360.0	4.7				ug/L	754	Standard
|	As	75	17259.4	2.5	**2.0000**	0.037	1.8	ug/L	12256	Standard
|	As-1	75	5045.9	1.9	**2.1099**	0.067	3.2	ug/L	25	Standard
|	Se	77	456.3	3.9	**2.0000**	0.097	4.9	ug/L	145	Standard
|	Se -1	78	13393.9	3.1				ug/L	12291	Standard
|	Br	79	284.3	3.2				ug/L	304	Standard
|	Se -2	82	483.0	4.7	**2.0000**	0.131	6.6	ug/L	42	Standard
	Kr	83	32.3	36.6				ug/L	36	Standard
	Y	89	605029.1	1.3				ug/L	618386	Standard
|	Rh	103	108391.4	1.5				ug/L	111544	Standard
|	Cd	111	6657.3	2.6	**2.1046**	0.030	1.4	ug/L	192	Standard
|	Cd -1	114	16468.5	2.5	**2.0800**	0.018	0.9	ug/L	23	Standard
|	Ho	165	538083.0	1.8				ug/L	521140	Standard
|	Pb	208	81940.4	1.4	**2.0874**	0.035	1.7	ug/L	518	Standard
|	Bi	209	311676.8	0.9				ug/L	295516	Standard
|	Th	232	388499.8	0.5				ug/L	378918	Standard
|	Cr -2	52	5215.6	2.9	**2.0000**	0.068	3.4	ug/L	283	KED
|	Cr -3	53	697.0	3.9	**2.0000**	0.086	4.3	ug/L	38	KED
|	Ni -3	58	6031.3	2.7	**2.0000**	0.056	2.8	ug/L	148	KED
|	Ni -4	60	2579.6	3.4	**2.0000**	0.071	3.5	ug/L	58	KED
|	Ni -5	62	403.7	3.7	**2.0000**	0.070	3.5	ug/L	12	KED
|	Cu -2	63	6753.9	0.5	**2.0000**	0.017	0.8	ug/L	287	KED
|	Cu -3	65	3178.7	3.0	**2.0000**	0.054	2.7	ug/L	136	KED
|	Zn -3	66	751.7	5.1				ug/L	93	KED
|	Zn -4	67	123.3	9.0				ug/L	15	KED
|	Zn -5	68	547.7	5.5				ug/L	68	KED
|	As-2	75	479.0	4.8	**2.0000**	0.096	4.8	ug/L	3	KED
	Y-1	89	65555.7	1.1				ug/L	64897	KED
	Rh-1	103	45475.6	1.2				ug/L	44712	KED
|	Cd -2	111	1361.7	3.1	**2.0863**	0.055	2.6	ug/L	4	KED
|	Cd -3	114	3572.8	2.1	**2.0974**	0.033	1.5	ug/L	8	KED
| >	Sc	45	776062.7	0.6				ug/L	772316	Standard
| >	Ge	72	438778.7	2.6				ug/L	431846	Standard
| >	In	115	421081.7	2.5				ug/L	412957	Standard
| >	Tb	159	570426.3	2.5				ug/L	554761	Standard
| >	Ge-1	72	31025.0	0.4				ug/L	30473	KED
| >	In-1	115	42414.7	0.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
|	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Friday, May 31, 2024 13:09:40
Report Date/Time: Friday, May 31, 2024 13:13:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 4.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	132548.8	1.6	**4.8716**	0.117	2.4	ug/L	23728	Standard
|	Cr -1	53	16329.0	2.3	**4.7518**	0.158	3.3	ug/L	4227	Standard
|	Ni	58	47564.4	2.8	**5.0000**	0.074	1.5	ug/L	-9347	Standard
|	Ni -1	60	22247.0	3.3	**4.7389**	0.101	2.1	ug/L	242	Standard
|	Ni -2	62	5004.5	2.6	**4.6723**	0.058	1.2	ug/L	1958	Standard
|	Cu	63	50152.2	1.0	**4.7170**	0.073	1.6	ug/L	2502	Standard
|	Cu -1	65	22688.7	1.6	**4.7462**	0.049	1.0	ug/L	483	Standard
|	Zn	66	12296.6	1.4	**5.0000**	0.072	1.4	ug/L	770	Standard
|	Zn -1	67	2049.1	1.7	**5.0000**	0.213	4.3	ug/L	161	Standard
|	Zn -2	68	8886.4	1.0	**5.0000**	0.061	1.2	ug/L	754	Standard
|	As	75	23028.4	1.4	**5.0711**	0.091	1.8	ug/L	12256	Standard
|	As-1	75	11415.6	1.0	**4.9967**	0.131	2.6	ug/L	25	Standard
|	Se	77	861.0	5.1	**4.9790**	0.291	5.8	ug/L	145	Standard
|	Se -1	78	14204.7	2.2	**5.0000**	0.327	6.5	ug/L	12291	Standard
|	Br	79	267.3	11.0				ug/L	304	Standard
|	Se -2	82	1038.0	3.2	**4.8150**	0.250	5.2	ug/L	42	Standard
	Kr	83	36.3	23.4				ug/L	36	Standard
	Y	89	579986.9	0.7				ug/L	618386	Standard
|	Rh	103	104714.4	0.9				ug/L	111544	Standard
|	Cd	111	14145.7	1.8	**4.8226**	0.109	2.3	ug/L	192	Standard
|	Cd -1	114	35254.5	2.8	**4.7654**	0.005	0.1	ug/L	23	Standard
|	Ho	165	517135.1	2.4				ug/L	521140	Standard
|	Pb	208	174786.8	1.7	**4.8116**	0.133	2.8	ug/L	518	Standard
|	Bi	209	298747.3	2.5				ug/L	295516	Standard
|	Th	232	377487.8	1.2				ug/L	378918	Standard
|	Cr -2	52	11094.6	1.5	**4.7759**	0.022	0.5	ug/L	283	KED
|	Cr -3	53	1379.7	1.6	**4.6071**	0.128	2.8	ug/L	38	KED
|	Ni -3	58	12804.7	2.2	**4.7178**	0.081	1.7	ug/L	148	KED
|	Ni -4	60	5537.4	0.8	**4.7549**	0.083	1.7	ug/L	58	KED
|	Ni -5	62	836.0	1.0	**4.6473**	0.012	0.3	ug/L	12	KED
|	Cu -2	63	14125.6	0.7	**4.6897**	0.087	1.9	ug/L	287	KED
|	Cu -3	65	6578.8	1.3	**4.6547**	0.102	2.2	ug/L	136	KED
|	Zn -3	66	1480.1	2.0	**5.0000**	0.182	3.6	ug/L	93	KED
|	Zn -4	67	258.3	3.7	**5.0000**	0.149	3.0	ug/L	15	KED
|	Zn -5	68	1171.4	4.1	**5.0000**	0.167	3.3	ug/L	68	KED
|	As-2	75	1003.4	1.0	**4.6757**	0.098	2.1	ug/L	3	KED
	Y-1	89	63371.9	0.3				ug/L	64897	KED
	Rh-1	103	43730.8	1.8				ug/L	44712	KED
|	Cd -2	111	2884.3	1.1	**4.7902**	0.115	2.4	ug/L	4	KED
|	Cd -3	114	7585.7	1.0	**4.8164**	0.022	0.5	ug/L	8	KED
|>	Sc	45	732066.9	2.8				ug/L	772316	Standard
|>	Ge	72	421674.8	2.0				ug/L	431846	Standard
|>	In	115	410368.2	2.9				ug/L	412957	Standard
|>	Tb	159	548311.9	2.9				ug/L	554761	Standard
|>	Ge-1	72	29956.7	1.1				ug/L	30473	KED
|>	In-1	115	40721.5	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Friday, May 31, 2024 13:14:31
Report Date/Time: Friday, May 31, 2024 13:17:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 5.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	502835.9	1.1	**19.7265**	0.414	2.1	ug/L	23728	Standard
|	Cr -1	53	58530.0	1.6	**19.3162**	0.251	1.3	ug/L	4227	Standard
|	Ni	58	237061.4	0.5	**20.3952**	0.439	2.2	ug/L	-9347	Standard
|	Ni -1	60	96979.1	1.6	**19.6274**	0.173	0.9	ug/L	242	Standard
|	Ni -2	62	15871.5	0.8	**19.1320**	0.457	2.4	ug/L	1958	Standard
|	Cu	63	213341.0	1.0	**19.5459**	0.393	2.0	ug/L	2502	Standard
|	Cu -1	65	98809.6	1.8	**19.6512**	0.131	0.7	ug/L	483	Standard
|	Zn	66	53635.8	1.4	**20.5907**	0.238	1.2	ug/L	770	Standard
|	Zn -1	67	9060.9	4.3	**20.8872**	0.687	3.3	ug/L	161	Standard
|	Zn -2	68	38156.6	2.4	**20.5687**	0.282	1.4	ug/L	754	Standard
|	As	75	59394.4	2.2	**20.4592**	0.074	0.4	ug/L	12256	Standard
|	As-1	75	48683.3	1.5	**20.0220**	0.168	0.8	ug/L	25	Standard
|	Se	77	3256.4	3.5	**20.2168**	0.311	1.5	ug/L	145	Standard
|	Se -1	78	21825.3	3.0	**19.7225**	0.646	3.3	ug/L	12291	Standard
|	Br	79	346.7	1.2				ug/L	304	Standard
|	Se -2	82	4393.3	1.1	**19.6735**	0.475	2.4	ug/L	42	Standard
	Kr	83	26.3	12.2				ug/L	36	Standard
	Y	89	626919.7	2.9				ug/L	618386	Standard
|	Rh	103	113287.4	0.6				ug/L	111544	Standard
|	Cd	111	61695.3	1.7	**19.9056**	0.061	0.3	ug/L	192	Standard
|	Cd -1	114	155568.7	2.5	**19.7723**	0.165	0.8	ug/L	23	Standard
|	Ho	165	561633.5	1.3				ug/L	521140	Standard
|	Pb	208	772228.9	2.0	**19.8469**	0.176	0.9	ug/L	518	Standard
|	Bi	209	321102.4	2.1				ug/L	295516	Standard
|	Th	232	409989.1	0.6				ug/L	378918	Standard
|	Cr -2	52	47377.1	1.4	**19.7464**	0.389	2.0	ug/L	283	KED
|	Cr -3	53	5853.2	1.7	**19.2636**	0.086	0.4	ug/L	38	KED
|	Ni -3	58	55400.2	0.7	**19.5907**	0.257	1.3	ug/L	148	KED
|	Ni -4	60	24213.2	0.5	**19.8376**	0.252	1.3	ug/L	58	KED
|	Ni -5	62	3583.4	2.0	**19.2629**	0.176	0.9	ug/L	12	KED
|	Cu -2	63	61399.0	0.4	**19.5935**	0.225	1.1	ug/L	287	KED
|	Cu -3	65	28878.2	1.3	**19.5831**	0.071	0.4	ug/L	136	KED
|	Zn -3	66	6603.5	1.3	**20.9549**	0.058	0.3	ug/L	93	KED
|	Zn -4	67	1079.4	0.4	**20.3707**	0.346	1.7	ug/L	15	KED
|	Zn -5	68	4987.5	2.0	**20.4018**	0.093	0.5	ug/L	68	KED
|	As-2	75	4434.7	1.0	**19.6942**	0.242	1.2	ug/L	3	KED
	Y-1	89	67695.4	1.4				ug/L	64897	KED
	Rh-1	103	46534.7	1.0				ug/L	44712	KED
|	Cd -2	111	12601.2	1.0	**19.6641**	0.400	2.0	ug/L	4	KED
|	Cd -3	114	33513.9	0.7	**19.9028**	0.212	1.1	ug/L	8	KED
|>	Sc	45	789764.5	1.9				ug/L	772316	Standard
|>	Ge	72	449825.8	2.4				ug/L	431846	Standard
|>	In	115	440589.3	1.8				ug/L	412957	Standard
|>	Tb	159	592488.6	1.5				ug/L	554761	Standard
|>	Ge-1	72	31773.0	1.6				ug/L	30473	KED
|>	In-1	115	43903.6	1.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Friday, May 31, 2024 13:19:22
Report Date/Time: Friday, May 31, 2024 13:22:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 6.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	973098.8	0.8	**40.5190**	0.611	1.5	ug/L	23728	Standard
|	Cr -1	53	112682.1	2.2	**40.0739**	0.205	0.5	ug/L	4227	Standard
|	Ni	58	474679.5	0.9	**40.7642**	0.462	1.1	ug/L	-9347	Standard
|	Ni -1	60	190969.1	1.4	**39.8813**	0.104	0.3	ug/L	242	Standard
|	Ni -2	62	29292.7	0.7	**39.0048**	0.392	1.0	ug/L	1958	Standard
|	Cu	63	420358.0	2.3	**39.8794**	0.289	0.7	ug/L	2502	Standard
|	Cu -1	65	194628.3	2.4	**39.9284**	0.389	1.0	ug/L	483	Standard
|	Zn	66	104696.3	1.6	**40.9462**	0.275	0.7	ug/L	770	Standard
|	Zn -1	67	17368.2	2.8	**40.9369**	0.496	1.2	ug/L	161	Standard
|	Zn -2	68	73664.4	0.8	**40.7296**	0.373	0.9	ug/L	754	Standard
|	As	75	107682.3	2.3	**42.2803**	0.360	0.9	ug/L	12256	Standard
|	As-1	75	97841.7	2.0	**41.0977**	0.148	0.4	ug/L	25	Standard
|	Se	77	6374.8	2.3	**41.2811**	0.423	1.0	ug/L	145	Standard
|	Se -1	78	31771.3	3.3	**41.9137**	1.132	2.7	ug/L	12291	Standard
|	Br	79	334.7	9.6				ug/L	304	Standard
|	Se -2	82	8652.3	3.0	**40.0248**	0.730	1.8	ug/L	42	Standard
	Kr	83	35.0	10.3				ug/L	36	Standard
	Y	89	609247.9	2.5				ug/L	618386	Standard
|	Rh	103	109912.3	1.9				ug/L	111544	Standard
|	Cd	111	123866.9	1.2	**40.8123**	0.225	0.6	ug/L	192	Standard
|	Cd -1	114	314861.7	2.3	**40.8029**	0.477	1.2	ug/L	23	Standard
|	Ho	165	543368.2	1.6				ug/L	521140	Standard
|	Pb	208	1538455.5	1.4	**40.6310**	0.141	0.3	ug/L	518	Standard
|	Bi	209	310064.7	1.1				ug/L	295516	Standard
|	Th	232	387640.9	1.4				ug/L	378918	Standard
|	Cr -2	52	91194.8	0.3	**40.1071**	0.957	2.4	ug/L	283	KED
|	Cr -3	53	11477.3	1.1	**39.9503**	0.739	1.9	ug/L	38	KED
|	Ni -3	58	107779.0	0.9	**40.1167**	0.619	1.5	ug/L	148	KED
|	Ni -4	60	46844.0	0.5	**40.3212**	0.644	1.6	ug/L	58	KED
|	Ni -5	62	6940.0	1.5	**39.5123**	0.695	1.8	ug/L	12	KED
|	Cu -2	63	117233.5	1.7	**39.6030**	0.305	0.8	ug/L	287	KED
|	Cu -3	65	55061.6	2.7	**39.5361**	0.718	1.8	ug/L	136	KED
|	Zn -3	66	12584.2	2.2	**41.3368**	0.180	0.4	ug/L	93	KED
|	Zn -4	67	2113.8	4.8	**41.3011**	1.400	3.4	ug/L	15	KED
|	Zn -5	68	9391.8	1.4	**40.4173**	0.295	0.7	ug/L	68	KED
|	As-2	75	8528.2	1.7	**39.9274**	1.094	2.7	ug/L	3	KED
	Y-1	89	64526.4	0.9				ug/L	64897	KED
	Rh-1	103	43718.5	1.2				ug/L	44712	KED
|	Cd -2	111	24881.3	0.5	**40.2917**	0.621	1.5	ug/L	4	KED
|	Cd -3	114	65823.3	1.2	**40.5029**	0.840	2.1	ug/L	8	KED
|>	Sc	45	758254.2	2.1				ug/L	772316	Standard
|>	Ge	72	436543.7	1.6				ug/L	431846	Standard
|>	In	115	429524.0	1.5				ug/L	412957	Standard
|>	Tb	159	574108.1	1.7				ug/L	554761	Standard
|>	Ge-1	72	30172.5	2.1				ug/L	30473	KED
|>	In-1	115	42236.7	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Friday, May 31, 2024 13:24:12
Report Date/Time: Friday, May 31, 2024 13:27:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\Standard 7.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	2170122.5	0.9	**103.0943**	2.388	2.3	ug/L	23728	Standard
|	Cr -1	53	234016.4	2.7	**97.1851**	0.705	0.7	ug/L	4227	Standard
|	Ni	58	1027503.6	1.5	**96.4903**	1.802	1.9	ug/L	-9347	Standard
|	Ni -1	60	408125.1	3.4	**94.1465**	1.917	2.0	ug/L	242	Standard
|	Ni -2	62	60411.8	0.9	**92.4780**	2.463	2.7	ug/L	1958	Standard
|	Cu	63	890063.0	2.4	**93.6304**	1.263	1.3	ug/L	2502	Standard
|	Cu -1	65	412809.8	1.3	**93.7208**	1.970	2.1	ug/L	483	Standard
|	Zn	66	219679.5	2.4	**95.5899**	1.651	1.7	ug/L	770	Standard
|	Zn -1	67	37386.2	3.9	**97.3935**	1.173	1.2	ug/L	161	Standard
|	Zn -2	68	159741.3	1.8	**97.5183**	1.493	1.5	ug/L	754	Standard
|	As	75	226327.4	2.4	**102.8721**	0.785	0.8	ug/L	12256	Standard
|	As-1	75	219442.3	2.9	**100.0248**	0.183	0.2	ug/L	25	Standard
|	Se	77	14036.6	3.7	**100.0331**	1.103	1.1	ug/L	145	Standard
|	Se -1	78	55660.9	2.1	**102.5762**	1.568	1.5	ug/L	12291	Standard
|	Br	79	329.3	6.4				ug/L	304	Standard
|	Se -2	82	19221.3	4.0	**97.4041**	1.137	1.2	ug/L	42	Standard
	Kr	83	26.7	2.2				ug/L	36	Standard
	Y	89	564096.8	5.0				ug/L	618386	Standard
|	Rh	103	100882.8	3.0				ug/L	111544	Standard
|	Cd	111	265131.8	2.1	**97.0118**	0.583	0.6	ug/L	192	Standard
|	Cd -1	114	679955.3	3.7	**97.6156**	2.412	2.5	ug/L	23	Standard
|	Ho	165	490616.6	1.2				ug/L	521140	Standard
|	Pb	208	3351959.0	2.0	**97.3246**	1.121	1.2	ug/L	518	Standard
|	Bi	209	284006.9	2.2				ug/L	295516	Standard
|	Th	232	346071.2	2.7				ug/L	378918	Standard
|	Cr -2	52	187346.1	0.5	**96.1111**	0.421	0.4	ug/L	283	KED
|	Cr -3	53	23289.0	0.3	**94.9348**	0.877	0.9	ug/L	38	KED
|	Ni -3	58	220282.7	0.5	**95.6634**	0.696	0.7	ug/L	148	KED
|	Ni -4	60	96559.6	0.8	**96.6856**	0.917	0.9	ug/L	58	KED
|	Ni -5	62	14273.5	1.0	**94.9951**	1.423	1.5	ug/L	12	KED
|	Cu -2	63	241456.8	0.3	**95.3045**	0.655	0.7	ug/L	287	KED
|	Cu -3	65	113798.1	0.7	**95.4174**	0.750	0.8	ug/L	136	KED
|	Zn -3	66	26015.7	0.3	**99.2403**	0.866	0.9	ug/L	93	KED
|	Zn -4	67	4312.0	2.0	**98.2719**	1.868	1.9	ug/L	15	KED
|	Zn -5	68	19750.0	1.3	**98.8017**	0.751	0.8	ug/L	68	KED
|	As-2	75	17953.3	0.9	**97.4856**	0.830	0.9	ug/L	3	KED
	Y-1	89	57187.6	1.4				ug/L	64897	KED
	Rh-1	103	38448.0	1.3				ug/L	44712	KED
|	Cd -2	111	52538.5	1.6	**95.8885**	1.924	2.0	ug/L	4	KED
|	Cd -3	114	138227.6	1.1	**95.8696**	1.428	1.5	ug/L	8	KED
|>	Sc	45	667919.2	3.1				ug/L	772316	Standard
|>	Ge	72	402390.5	3.1				ug/L	431846	Standard
|>	In	115	390145.1	1.5				ug/L	412957	Standard
|>	Tb	159	526075.5	2.8				ug/L	554761	Standard
|>	Ge-1	72	26211.7	0.7				ug/L	30473	KED
|>	In-1	115	37878.6	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, May 31, 2024 13:29:53
Report Date/Time: Friday, May 31, 2024 13:33:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 1.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1111789.8	1.6	**49.3350**	0.098	0.2	ug/L	23728	Standard
|	Cr -1	53	129098.0	2.9	**49.9221**	0.621	1.2	ug/L	4227	Standard
|	Ni	58	549047.3	3.6	**49.3625**	1.291	2.6	ug/L	-9347	Standard
|	Ni -1	60	220656.7	2.9	**48.4386**	0.987	2.0	ug/L	242	Standard
|	Ni -2	62	33167.8	2.2	**47.0841**	0.654	1.4	ug/L	1958	Standard
|	Cu	63	481105.5	2.8	**48.0836**	0.907	1.9	ug/L	2502	Standard
|	Cu -1	65	221956.6	1.7	**47.9344**	0.158	0.3	ug/L	483	Standard
|	Zn	66	119700.6	2.4	**49.4022**	0.600	1.2	ug/L	770	Standard
|	Zn -1	67	20137.2	2.8	**49.7093**	0.737	1.5	ug/L	161	Standard
|	Zn -2	68	86427.3	1.0	**50.0105**	0.230	0.5	ug/L	754	Standard
|	As	75	127855.0	0.5	**52.6879**	0.596	1.1	ug/L	12256	Standard
|	As-1	75	117556.7	0.8	**51.0028**	0.447	0.9	ug/L	25	Standard
|	Se	77	7789.8	2.9	**52.3608**	1.046	2.0	ug/L	145	Standard
|	Se -1	78	36686.0	0.6	**54.4927**	0.649	1.2	ug/L	12291	Standard
|	Br	79	340.0	3.0				ug/L	304	Standard
|	Se -2	82	10408.5	1.7	**50.1559**	0.342	0.7	ug/L	42	Standard
	Kr	83	33.3	22.7				ug/L	36	Standard
	Y	89	604477.6	2.3				ug/L	618386	Standard
|	Rh	103	107111.5	2.0				ug/L	111544	Standard
|	Cd	111	145809.7	3.5	**50.1031**	0.923	1.8	ug/L	192	Standard
|	Cd -1	114	376144.7	3.3	**50.7552**	1.136	2.2	ug/L	23	Standard
|	Ho	165	525870.2	2.9				ug/L	521140	Standard
|	Pb	208	1824641.2	1.9	**50.0348**	0.219	0.4	ug/L	518	Standard
|	Bi	209	296693.4	1.5				ug/L	295516	Standard
|	Th	232	375923.0	2.6				ug/L	378918	Standard
|	Cr -2	52	102945.6	0.1	**49.0663**	0.205	0.4	ug/L	283	KED
|	Cr -3	53	12770.7	1.3	**48.3526**	0.571	1.2	ug/L	38	KED
|	Ni -3	58	120217.9	1.2	**48.5474**	0.694	1.4	ug/L	148	KED
|	Ni -4	60	52093.1	1.0	**48.4984**	0.541	1.1	ug/L	58	KED
|	Ni -5	62	7774.1	2.1	**48.1147**	0.971	2.0	ug/L	12	KED
|	Cu -2	63	132551.2	1.8	**48.6430**	0.961	2.0	ug/L	287	KED
|	Cu -3	65	62473.7	1.3	**48.7130**	0.763	1.6	ug/L	136	KED
|	Zn -3	66	14244.4	0.8	**50.3617**	0.414	0.8	ug/L	93	KED
|	Zn -4	67	2417.2	0.9	**51.0751**	0.477	0.9	ug/L	15	KED
|	Zn -5	68	10938.2	1.2	**50.7560**	0.407	0.8	ug/L	68	KED
|	As-2	75	9822.7	1.0	**49.6119**	0.714	1.4	ug/L	3	KED
	Y-1	89	61167.0	1.0				ug/L	64897	KED
	Rh-1	103	41267.2	0.7				ug/L	44712	KED
|	Cd -2	111	28797.7	0.8	**49.6713**	0.344	0.7	ug/L	4	KED
|	Cd -3	114	75731.5	0.9	**49.6381**	0.585	1.2	ug/L	8	KED
| >	Sc	45	707717.2	1.7				ug/L	772316	Standard
| >	Ge	72	422696.5	1.4				ug/L	431846	Standard
| >	In	115	415026.2	1.9				ug/L	412957	Standard
| >	Tb	159	556716.8	1.6				ug/L	554761	Standard
| >	Ge-1	72	28177.4	0.4				ug/L	30473	KED
| >	In-1	115	40065.2	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	98.670	
|	Cr -1	53	99.844	
|	Ni	58	98.725	
|	Ni -1	60	96.877	
|	Ni -2	62	94.168	
|	Cu	63	96.167	
|	Cu -1	65	95.869	
|	Zn	66	98.804	
|	Zn -1	67	99.419	
|	Zn -2	68	100.021	
|	As	75	105.376	
|	As-1	75	102.006	
|	Se	77	104.722	
|	Se -1	78	108.985	
|	Br	79		
|	Se -2	82	100.312	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	100.206	
|	Cd -1	114	101.510	
|	Ho	165		
|	Pb	208	100.070	
|	Bi	209		
|	Th	232		
|	Cr -2	52	98.133	
|	Cr -3	53	96.705	
|	Ni -3	58	97.095	
|	Ni -4	60	96.997	
|	Ni -5	62	96.229	
|	Cu -2	63	97.286	
|	Cu -3	65	97.426	
|	Zn -3	66	100.723	
|	Zn -4	67	102.150	
|	Zn -5	68	101.512	
|	As-2	75	99.224	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	99.343	
|	Cd -3	114	99.276	
| >	Sc	45		91.636
| >	Ge	72		97.881
| >	In	115		100.501
| >	Tb	159		100.353
| >	Ge-1	72		92.465
| >	In-1	115		94.425

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, May 31, 2024 13:35:34
Report Date/Time: Friday, May 31, 2024 13:38:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 2.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18836.1	0.5	**-0.1230**	0.011	9.0	ug/L	23728	Standard
|	Cr -1	53	3251.0	1.9	**-0.1355**	0.041	30.6	ug/L	4227	Standard
|	Ni	58	-6088.5	3.5	**0.0803**	0.014	17.8	ug/L	-9347	Standard
|	Ni -1	60	234.7	4.9	**0.0308**	0.004	12.2	ug/L	242	Standard
|	Ni -2	62	2553.9	0.3	**1.2415**	0.079	6.3	ug/L	1958	Standard
|	Cu	63	2892.3	1.4	**0.1188**	0.007	5.7	ug/L	2502	Standard
|	Cu -1	65	511.7	5.0	**0.0786**	0.004	4.7	ug/L	483	Standard
|	Zn	66	763.0	4.4	**-0.0303**	0.007	22.3	ug/L	770	Standard
|	Zn -1	67	155.3	8.5	**-0.0874**	0.037	42.4	ug/L	161	Standard
|	Zn -2	68	788.4	3.3	**0.0358**	0.013	36.0	ug/L	754	Standard
|	As	75	12429.4	2.4	**-0.0494**	0.023	47.4	ug/L	12256	Standard
|	As-1	75	23.9	176.5	**-0.0071**	0.019	260.4	ug/L	25	Standard
|	Se	77	134.7	2.6	**-0.1163**	0.016	13.5	ug/L	145	Standard
|	Se -1	78	12477.4	2.8	**0.9229**	0.193	20.9	ug/L	12291	Standard
|	Br	79	337.0	3.1				ug/L	304	Standard
|	Se -2	82	46.7	16.1	**0.0923**	0.035	37.8	ug/L	42	Standard
	Kr	83	33.3	13.9				ug/L	36	Standard
	Y	89	602295.5	2.4				ug/L	618386	Standard
|	Rh	103	106851.9	2.0				ug/L	111544	Standard
|	Cd	111	215.4	7.0	**-0.0170**	0.005	27.4	ug/L	192	Standard
|	Cd -1	114	49.0	16.0	**-0.0199**	0.001	5.7	ug/L	23	Standard
|	Ho	165	515302.2	2.8				ug/L	521140	Standard
|	Pb	208	752.3	10.1	**-0.0157**	0.003	16.3	ug/L	518	Standard
|	Bi	209	299269.2	0.5				ug/L	295516	Standard
|	Th	232	373872.0	1.3				ug/L	378918	Standard
|	Cr -2	52	271.3	6.2	**-0.0014**	0.009	608.4	ug/L	283	KED
|	Cr -3	53	33.7	22.3	**-0.0238**	0.029	121.0	ug/L	38	KED
|	Ni -3	58	135.4	6.4	**0.0158**	0.003	17.0	ug/L	148	KED
|	Ni -4	60	52.3	14.5	**0.0002**	0.007	3493.1	ug/L	58	KED
|	Ni -5	62	7.7	49.4	**0.0205**	0.023	112.1	ug/L	12	KED
|	Cu -2	63	296.0	6.4	**0.0523**	0.008	15.3	ug/L	287	KED
|	Cu -3	65	140.0	6.3	**0.0723**	0.005	7.3	ug/L	136	KED
|	Zn -3	66	92.3	8.1	**-0.0580**	0.022	37.4	ug/L	93	KED
|	Zn -4	67	16.0	38.0	**-0.0313**	0.119	380.6	ug/L	15	KED
|	Zn -5	68	63.3	22.4	**-0.0176**	0.060	342.3	ug/L	68	KED
|	As-2	75	6.0	44.1	**0.0177**	0.013	72.6	ug/L	3	KED
	Y-1	89	63229.3	1.2				ug/L	64897	KED
	Rh-1	103	42842.5	1.4				ug/L	44712	KED
|	Cd -2	111	5.3	10.8	**-0.0258**	0.001	4.1	ug/L	4	KED
|	Cd -3	114	8.7	52.0	**-0.0346**	0.003	8.2	ug/L	8	KED
|>	Sc	45	731492.5	1.6				ug/L	772316	Standard
|>	Ge	72	425041.3	2.3				ug/L	431846	Standard
|>	In	115	415848.9	1.2				ug/L	412957	Standard
|>	Tb	159	546517.6	2.0				ug/L	554761	Standard
|>	Ge-1	72	29365.5	1.3				ug/L	30473	KED
|>	In-1	115	41144.9	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		94.714
| >	Ge	72		98.424
| >	In	115		100.700
| >	Tb	159		98.514
| >	Ge-1	72		96.364
| >	In-1	115		96.969

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 31, 2024 13:40:27
Report Date/Time: Friday, May 31, 2024 13:43:47
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 6.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	946056.6	2.6	**40.0659**	0.614	1.5	ug/L	23728	Standard
|	Cr -1	53	110268.1	2.5	**40.6275**	0.423	1.0	ug/L	4227	Standard
|	Ni	58	464453.9	3.3	**41.4926**	0.699	1.7	ug/L	-9347	Standard
|	Ni -1	60	186019.0	2.2	**40.4789**	0.333	0.8	ug/L	242	Standard
|	Ni -2	62	28800.4	3.1	**40.1681**	0.586	1.5	ug/L	1958	Standard
|	Cu	63	411146.3	2.5	**40.7120**	0.703	1.7	ug/L	2502	Standard
|	Cu -1	65	186640.4	2.3	**39.9573**	0.924	2.3	ug/L	483	Standard
|	Zn	66	103165.0	2.9	**42.1608**	0.921	2.2	ug/L	770	Standard
|	Zn -1	67	17072.2	2.1	**41.7091**	0.696	1.7	ug/L	161	Standard
|	Zn -2	68	71991.7	2.1	**41.2220**	0.615	1.5	ug/L	754	Standard
|	As	75	104748.9	2.0	**41.7185**	0.563	1.3	ug/L	12256	Standard
|	As-1	75	95002.8	1.6	**40.8561**	0.450	1.1	ug/L	25	Standard
|	Se	77	6390.1	2.2	**42.3898**	0.476	1.1	ug/L	145	Standard
|	Se -1	78	31051.4	2.2	**41.4591**	0.648	1.6	ug/L	12291	Standard
|	Br	79	331.3	6.4				ug/L	304	Standard
|	Se -2	82	8405.8	0.2	**40.1357**	0.600	1.5	ug/L	42	Standard
	Kr	83	29.3	19.4				ug/L	36	Standard
	Y	89	596860.2	1.0				ug/L	618386	Standard
|	Rh	103	106334.7	2.1				ug/L	111544	Standard
|	Cd	111	121452.4	3.2	**41.1581**	0.451	1.1	ug/L	192	Standard
|	Cd -1	114	308755.1	1.4	**41.1097**	0.855	2.1	ug/L	23	Standard
|	Ho	165	525425.8	3.0				ug/L	521140	Standard
|	Pb	208	1477194.8	2.1	**40.5950**	0.457	1.1	ug/L	518	Standard
|	Bi	209	292148.5	1.5				ug/L	295516	Standard
|	Th	232	372933.9	2.0				ug/L	378918	Standard
|	Cr -2	52	91380.7	1.7	**41.1413**	0.223	0.5	ug/L	283	KED
|	Cr -3	53	11441.2	0.3	**40.9217**	0.378	0.9	ug/L	38	KED
|	Ni -3	58	106953.8	0.2	**40.8173**	0.498	1.2	ug/L	148	KED
|	Ni -4	60	46670.4	1.1	**41.0575**	0.065	0.2	ug/L	58	KED
|	Ni -5	62	6904.0	1.5	**40.3792**	0.171	0.4	ug/L	12	KED
|	Cu -2	63	116092.2	1.0	**40.2566**	0.454	1.1	ug/L	287	KED
|	Cu -3	65	54865.5	0.7	**40.4275**	0.250	0.6	ug/L	136	KED
|	Zn -3	66	12545.5	0.4	**41.8604**	0.344	0.8	ug/L	93	KED
|	Zn -4	67	2087.5	0.8	**41.6270**	0.782	1.9	ug/L	15	KED
|	Zn -5	68	9410.1	0.9	**41.2147**	0.268	0.7	ug/L	68	KED
|	As-2	75	8559.9	2.2	**40.8546**	0.513	1.3	ug/L	3	KED
	Y-1	89	63704.1	1.3				ug/L	64897	KED
	Rh-1	103	43545.6	1.0				ug/L	44712	KED
|	Cd -2	111	24861.0	1.5	**41.3327**	0.090	0.2	ug/L	4	KED
|	Cd -3	114	65331.0	0.5	**41.2771**	0.440	1.1	ug/L	8	KED
| >	Sc	45	738249.6	1.5				ug/L	772316	Standard
| >	Ge	72	426394.7	1.7				ug/L	431846	Standard
| >	In	115	420790.5	3.6				ug/L	412957	Standard
| >	Tb	159	555490.1	2.6				ug/L	554761	Standard
| >	Ge-1	72	29813.7	1.1				ug/L	30473	KED
| >	In-1	115	41559.8	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	100.165	
|	Cr -1	53	101.569	
|	Ni	58	103.731	
|	Ni -1	60	101.197	
|	Ni -2	62	100.420	
|	Cu	63	101.780	
|	Cu -1	65	99.893	
|	Zn	66	105.402	
|	Zn -1	67	104.273	
|	Zn -2	68	103.055	
|	As	75	104.296	
|	As-1	75	102.140	
|	Se	77	105.975	
|	Se -1	78	103.648	
|	Br	79		
|	Se -2	82	100.339	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	102.895	
|	Cd -1	114	102.774	
|	Ho	165		
|	Pb	208	101.487	
|	Bi	209		
|	Th	232		
|	Cr -2	52	102.853	
|	Cr -3	53	102.304	
|	Ni -3	58	102.043	
|	Ni -4	60	102.644	
|	Ni -5	62	100.948	
|	Cu -2	63	100.642	
|	Cu -3	65	101.069	
|	Zn -3	66	104.651	
|	Zn -4	67	104.067	
|	Zn -5	68	103.037	
|	As-2	75	102.137	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	103.332	
|	Cd -3	114	103.193	
|>	Sc	45		95.589
|>	Ge	72		98.738
|>	In	115		101.897
|>	Tb	159		100.131
|>	Ge-1	72		97.835
|>	In-1	115		97.947

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 31, 2024 13:46:08
Report Date/Time: Friday, May 31, 2024 13:49:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 7.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	478473.9	1.2	**19.4865**	0.317	1.6	ug/L	23728	Standard
|	Cr -1	53	55724.1	1.3	**19.5291**	0.284	1.5	ug/L	4227	Standard
|	Ni	58	227138.6	1.4	**20.2012**	0.130	0.6	ug/L	-9347	Standard
|	Ni -1	60	93060.9	2.1	**19.8240**	0.033	0.2	ug/L	242	Standard
|	Ni -2	62	15845.8	2.8	**20.4660**	0.272	1.3	ug/L	1958	Standard
|	Cu	63	203386.3	2.7	**19.6360**	0.154	0.8	ug/L	2502	Standard
|	Cu -1	65	94616.5	2.8	**19.8202**	0.249	1.3	ug/L	483	Standard
|	Zn	66	51519.7	1.4	**20.4471**	0.170	0.8	ug/L	770	Standard
|	Zn -1	67	8776.7	2.2	**20.7656**	0.209	1.0	ug/L	161	Standard
|	Zn -2	68	37222.8	0.5	**20.6704**	0.311	1.5	ug/L	754	Standard
|	As	75	57608.8	2.2	**19.8446**	0.124	0.6	ug/L	12256	Standard
|	As-1	75	47004.9	2.5	**19.7871**	0.098	0.5	ug/L	25	Standard
|	Se	77	3142.0	2.5	**19.8772**	0.173	0.9	ug/L	145	Standard
|	Se -1	78	21386.7	1.6	**19.3645**	0.511	2.6	ug/L	12291	Standard
|	Br	79	353.0	6.7				ug/L	304	Standard
|	Se -2	82	4262.6	1.9	**19.8646**	0.009	0.0	ug/L	42	Standard
	Kr	83	36.7	20.1				ug/L	36	Standard
	Y	89	610158.5	3.0				ug/L	618386	Standard
|	Rh	103	109790.7	2.0				ug/L	111544	Standard
|	Cd	111	59851.3	2.4	**19.5872**	0.279	1.4	ug/L	192	Standard
|	Cd -1	114	152420.0	2.8	**19.6228**	0.210	1.1	ug/L	23	Standard
|	Ho	165	533311.7	1.8				ug/L	521140	Standard
|	Pb	208	729252.6	1.2	**19.6559**	0.330	1.7	ug/L	518	Standard
|	Bi	209	299658.6	0.6				ug/L	295516	Standard
|	Th	232	379332.1	1.2				ug/L	378918	Standard
|	Cr -2	52	45446.5	1.0	**20.0925**	0.100	0.5	ug/L	283	KED
|	Cr -3	53	5568.1	0.9	**19.5411**	0.159	0.8	ug/L	38	KED
|	Ni -3	58	52720.5	2.1	**19.7987**	0.315	1.6	ug/L	148	KED
|	Ni -4	60	23040.6	1.3	**19.9433**	0.153	0.8	ug/L	58	KED
|	Ni -5	62	3380.4	1.6	**19.4632**	0.214	1.1	ug/L	12	KED
|	Cu -2	63	57914.8	1.8	**19.7557**	0.265	1.3	ug/L	287	KED
|	Cu -3	65	27032.2	1.1	**19.6043**	0.114	0.6	ug/L	136	KED
|	Zn -3	66	6279.4	2.8	**20.4487**	0.516	2.5	ug/L	93	KED
|	Zn -4	67	1076.0	4.9	**20.9563**	0.930	4.4	ug/L	15	KED
|	Zn -5	68	4729.1	2.3	**20.2511**	0.416	2.1	ug/L	68	KED
|	As-2	75	4137.9	3.4	**19.4491**	0.579	3.0	ug/L	3	KED
	Y-1	89	65109.1	1.7				ug/L	64897	KED
	Rh-1	103	44475.5	0.4				ug/L	44712	KED
|	Cd -2	111	12272.3	2.5	**19.7778**	0.183	0.9	ug/L	4	KED
|	Cd -3	114	32582.8	1.8	**19.9523**	0.116	0.6	ug/L	8	KED
|>	Sc	45	749672.0	2.7				ug/L	772316	Standard
|>	Ge	72	435353.7	2.0				ug/L	431846	Standard
|>	In	115	434614.2	1.8				ug/L	412957	Standard
|>	Tb	159	565940.9	2.9				ug/L	554761	Standard
|>	Ge-1	72	30264.4	0.5				ug/L	30473	KED
|>	In-1	115	42831.5	1.6				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	97.433	
|	Cr -1	53	97.645	
|	Ni	58	101.006	
|	Ni -1	60	99.120	
|	Ni -2	62	102.330	
|	Cu	63	98.180	
|	Cu -1	65	99.101	
|	Zn	66	102.235	
|	Zn -1	67	103.828	
|	Zn -2	68	103.352	
|	As	75	99.223	
|	As-1	75	98.936	
|	Se	77	99.386	
|	Se -1	78	96.822	
|	Br	79		
|	Se -2	82	99.323	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	97.936	
|	Cd -1	114	98.114	
|	Ho	165		
|	Pb	208	98.279	
|	Bi	209		
|	Th	232		
|	Cr -2	52	100.463	
|	Cr -3	53	97.706	
|	Ni -3	58	98.994	
|	Ni -4	60	99.717	
|	Ni -5	62	97.316	
|	Cu -2	63	98.778	
|	Cu -3	65	98.022	
|	Zn -3	66	102.244	
|	Zn -4	67	104.782	
|	Zn -5	68	101.255	
|	As-2	75	97.246	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	98.889	
|	Cd -3	114	99.762	
| >	Sc	45		97.068
| >	Ge	72		100.812
| >	In	115		105.245
| >	Tb	159		102.015
| >	Ge-1	72		99.314
| >	In-1	115		100.944

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, May 31, 2024 13:51:49
Report Date/Time: Friday, May 31, 2024 13:55:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 8.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18439.2	0.6	**-0.1252**	0.006	5.1	ug/L	23728	Standard
|	Cr -1	53	2829.3	2.1	**-0.2774**	0.030	10.9	ug/L	4227	Standard
|	Ni	58	-5946.3	0.8	**0.0885**	0.019	21.0	ug/L	-9347	Standard
|	Ni -1	60	229.3	4.4	**0.0299**	0.002	6.4	ug/L	242	Standard
|	Ni -2	62	2275.5	1.3	**0.8528**	0.067	7.9	ug/L	1958	Standard
|	Cu	63	2674.3	1.8	**0.0991**	0.003	3.1	ug/L	2502	Standard
|	Cu -1	65	458.3	6.1	**0.0678**	0.004	6.1	ug/L	483	Standard
|	Zn	66	714.0	3.3	**-0.0481**	0.010	19.8	ug/L	770	Standard
|	Zn -1	67	136.7	3.0	**-0.1311**	0.020	15.1	ug/L	161	Standard
|	Zn -2	68	751.4	0.3	**0.0179**	0.014	80.4	ug/L	754	Standard
|	As	75	12470.2	1.5	**0.0136**	0.081	596.3	ug/L	12256	Standard
|	As-1	75	5.5	1186.4	**-0.0159**	0.029	181.0	ug/L	25	Standard
|	Se	77	128.3	12.2	**-0.1504**	0.135	89.6	ug/L	145	Standard
|	Se -1	78	12519.5	1.3	**1.2337**	0.454	36.8	ug/L	12291	Standard
|	Br	79	327.3	0.8				ug/L	304	Standard
|	Se -2	82	40.0	39.1	**0.0604**	0.071	117.9	ug/L	42	Standard
	Kr	83	30.3	21.2				ug/L	36	Standard
	Y	89	597709.9	3.3				ug/L	618386	Standard
|	Rh	103	106793.7	1.5				ug/L	111544	Standard
|	Cd	111	217.7	5.9	**-0.0155**	0.004	25.7	ug/L	192	Standard
|	Cd -1	114	24.5	73.7	**-0.0232**	0.002	10.5	ug/L	23	Standard
|	Ho	165	511457.1	2.5				ug/L	521140	Standard
|	Pb	208	638.7	3.0	**-0.0190**	0.001	5.1	ug/L	518	Standard
|	Bi	209	293502.1	1.5				ug/L	295516	Standard
|	Th	232	361471.1	1.6				ug/L	378918	Standard
|	Cr -2	52	272.7	2.2	**0.0035**	0.002	52.7	ug/L	283	KED
|	Cr -3	53	35.7	26.5	**-0.0120**	0.036	298.3	ug/L	38	KED
|	Ni -3	58	116.1	6.4	**0.0100**	0.003	25.7	ug/L	148	KED
|	Ni -4	60	53.0	10.5	**0.0025**	0.005	205.6	ug/L	58	KED
|	Ni -5	62	8.0	33.1	**0.0240**	0.016	66.6	ug/L	12	KED
|	Cu -2	63	270.3	7.2	**0.0466**	0.007	15.4	ug/L	287	KED
|	Cu -3	65	124.3	11.0	**0.0639**	0.010	15.8	ug/L	136	KED
|	Zn -3	66	98.3	12.9	**-0.0254**	0.043	171.0	ug/L	93	KED
|	Zn -4	67	16.0	31.3	**-0.0192**	0.103	539.1	ug/L	15	KED
|	Zn -5	68	66.0	16.7	**0.0053**	0.051	958.3	ug/L	68	KED
|	As-2	75	4.0	75.0	**0.0088**	0.015	173.7	ug/L	3	KED
	Y-1	89	61941.7	0.7				ug/L	64897	KED
	Rh-1	103	41827.5	0.8				ug/L	44712	KED
|	Cd -2	111	6.0	44.1	**-0.0246**	0.004	17.9	ug/L	4	KED
|	Cd -3	114	9.0	48.4	**-0.0343**	0.003	8.3	ug/L	8	KED
|>	Sc	45	717923.4	1.1				ug/L	772316	Standard
|>	Ge	72	421841.7	2.9				ug/L	431846	Standard
|>	In	115	412205.5	0.6				ug/L	412957	Standard
|>	Tb	159	549084.3	2.5				ug/L	554761	Standard
|>	Ge-1	72	28356.1	0.9				ug/L	30473	KED
|>	In-1	115	40793.6	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.957
| >	Ge	72		97.683
| >	In	115		99.818
| >	Tb	159		98.977
| >	Ge-1	72		93.052
| >	In-1	115		96.141

Quantitative Analysis - Summary Report

Sample ID: MB0529WM1 2X

Sample Date/Time: Friday, May 31, 2024 13:56:40
Report Date/Time: Friday, May 31, 2024 14:00:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\MB0529WM1 2X.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18059.4	2.7	**-0.1119**	0.019	16.7	ug/L	23728	Standard
|	Cr -1	53	2677.9	1.5	**-0.2973**	0.022	7.4	ug/L	4227	Standard
|	Ni	58	-5645.0	2.3	**0.1176**	0.022	18.3	ug/L	-9347	Standard
|	Ni -1	60	164.7	9.9	**0.0156**	0.005	29.2	ug/L	242	Standard
|	Ni -2	62	2074.5	1.5	**0.5382**	0.116	21.6	ug/L	1958	Standard
|	Cu	63	2782.6	1.0	**0.1088**	0.005	4.2	ug/L	2502	Standard
|	Cu -1	65	596.0	6.3	**0.0971**	0.007	6.9	ug/L	483	Standard
|	Zn	66	615.7	4.9	**-0.0900**	0.018	20.4	ug/L	770	Standard
|	Zn -1	67	126.3	7.8	**-0.1582**	0.031	19.9	ug/L	161	Standard
|	Zn -2	68	658.3	4.4	**-0.0384**	0.017	44.1	ug/L	754	Standard
|	As	75	12852.7	1.8	**0.1618**	0.062	38.3	ug/L	12256	Standard
|	As-1	75	-43.8	65.3	**-0.0367**	0.012	34.0	ug/L	25	Standard
|	Se	77	109.3	9.3	**-0.2865**	0.071	24.6	ug/L	145	Standard
|	Se -1	78	12952.2	1.8	**2.0596**	0.360	17.5	ug/L	12291	Standard
|	Br	79	366.3	3.4				ug/L	304	Standard
|	Se -2	82	41.0	10.6	**0.0662**	0.025	38.3	ug/L	42	Standard
	Kr	83	27.7	5.5				ug/L	36	Standard
	Y	89	583225.8	1.1				ug/L	618386	Standard
|	Rh	103	103273.4	2.2				ug/L	111544	Standard
|	Cd	111	207.9	10.0	**-0.0176**	0.005	30.9	ug/L	192	Standard
|	Cd -1	114	29.9	39.6	**-0.0223**	0.002	7.9	ug/L	23	Standard
|	Ho	165	513299.8	2.8				ug/L	521140	Standard
|	Pb	208	1090.0	1.9	**-0.0059**	0.001	13.6	ug/L	518	Standard
|	Bi	209	288780.3	0.7				ug/L	295516	Standard
|	Th	232	355178.3	2.6				ug/L	378918	Standard
|	Cr -2	52	287.7	3.9	**0.0131**	0.006	42.4	ug/L	283	KED
|	Cr -3	53	40.0	13.9	**0.0069**	0.021	305.5	ug/L	38	KED
|	Ni -3	58	99.2	14.0	**0.0039**	0.006	145.4	ug/L	148	KED
|	Ni -4	60	41.3	22.0	**-0.0076**	0.009	115.7	ug/L	58	KED
|	Ni -5	62	6.7	56.8	**0.0165**	0.024	142.8	ug/L	12	KED
|	Cu -2	63	342.3	4.3	**0.0750**	0.005	7.0	ug/L	287	KED
|	Cu -3	65	159.3	8.4	**0.0933**	0.010	10.7	ug/L	136	KED
|	Zn -3	66	75.0	7.1	**-0.1031**	0.021	20.8	ug/L	93	KED
|	Zn -4	67	16.0	12.5	**-0.0127**	0.042	330.2	ug/L	15	KED
|	Zn -5	68	45.3	2.5	**-0.0868**	0.006	7.1	ug/L	68	KED
|	As-2	75	2.3	65.5	**0.0005**	0.008	1478.7	ug/L	3	KED
	Y-1	89	61066.6	0.8				ug/L	64897	KED
	Rh-1	103	40816.2	1.1				ug/L	44712	KED
|	Cd -2	111	4.0	43.3	**-0.0278**	0.003	10.9	ug/L	4	KED
|	Cd -3	114	11.7	9.9	**-0.0325**	0.001	2.6	ug/L	8	KED
|>	Sc	45	691877.3	0.7				ug/L	772316	Standard
|>	Ge	72	423724.2	2.6				ug/L	431846	Standard
|>	In	115	404307.8	2.8				ug/L	412957	Standard
|>	Tb	159	539757.3	0.9				ug/L	554761	Standard
|>	Ge-1	72	27863.1	0.9				ug/L	30473	KED
|>	In-1	115	40042.3	1.2				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		89.585
| >	Ge	72		98.119
| >	In	115		97.906
| >	Tb	159		97.296
| >	Ge-1	72		91.434
| >	In-1	115		94.371

Quantitative Analysis - Summary Report

Sample ID: SB0529WM1 2X

Sample Date/Time: Friday, May 31, 2024 14:02:20
Report Date/Time: Friday, May 31, 2024 14:05:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\SB0529WM1 2X.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1047146.2	1.4	**46.0167**	0.198	0.4	ug/L	23728	Standard
|	Cr -1	53	120342.6	2.0	**46.0483**	0.329	0.7	ug/L	4227	Standard
|	Ni	58	506534.3	1.8	**46.8187**	0.504	1.1	ug/L	-9347	Standard
|	Ni -1	60	204996.8	1.2	**46.2348**	0.803	1.7	ug/L	242	Standard
|	Ni -2	62	31022.0	1.4	**45.1416**	0.694	1.5	ug/L	1958	Standard
|	Cu	63	451408.1	2.3	**46.3367**	0.229	0.5	ug/L	2502	Standard
|	Cu -1	65	208764.7	2.7	**46.3053**	0.262	0.6	ug/L	483	Standard
|	Zn	66	112690.9	4.0	**47.7489**	0.727	1.5	ug/L	770	Standard
|	Zn -1	67	18949.9	4.4	**48.0207**	0.950	2.0	ug/L	161	Standard
|	Zn -2	68	80440.9	2.4	**47.7880**	0.215	0.4	ug/L	754	Standard
|	As	75	117550.9	2.9	**49.4273**	0.068	0.1	ug/L	12256	Standard
|	As-1	75	107784.1	2.9	**48.0215**	0.219	0.5	ug/L	25	Standard
|	Se	77	6979.0	1.5	**48.1141**	0.728	1.5	ug/L	145	Standard
|	Se -1	78	34019.8	3.5	**50.6269**	1.158	2.3	ug/L	12291	Standard
|	Br	79	421.3	9.0				ug/L	304	Standard
|	Se -2	82	9566.9	3.2	**47.3362**	0.206	0.4	ug/L	42	Standard
	Kr	83	30.0	12.0				ug/L	36	Standard
	Y	89	583130.0	3.9				ug/L	618386	Standard
|	Rh	103	102133.2	1.7				ug/L	111544	Standard
|	Cd	111	132951.0	1.5	**47.0016**	0.109	0.2	ug/L	192	Standard
|	Cd -1	114	344037.4	2.4	**47.7570**	0.590	1.2	ug/L	23	Standard
|	Ho	165	503758.3	0.5				ug/L	521140	Standard
|	Pb	208	1633115.1	1.2	**46.5376**	0.501	1.1	ug/L	518	Standard
|	Bi	209	284938.4	2.1				ug/L	295516	Standard
|	Th	232	360544.0	0.3				ug/L	378918	Standard
|	Cr -2	52	101559.4	0.6	**47.9307**	0.460	1.0	ug/L	283	KED
|	Cr -3	53	12632.6	0.7	**47.3609**	0.494	1.0	ug/L	38	KED
|	Ni -3	58	118305.7	1.2	**47.3074**	0.650	1.4	ug/L	148	KED
|	Ni -4	60	51290.3	1.3	**47.2845**	0.741	1.6	ug/L	58	KED
|	Ni -5	62	7560.7	2.5	**46.3366**	1.209	2.6	ug/L	12	KED
|	Cu -2	63	129615.7	0.8	**47.0990**	0.428	0.9	ug/L	287	KED
|	Cu -3	65	60548.7	1.6	**46.7485**	0.721	1.5	ug/L	136	KED
|	Zn -3	66	13888.7	1.8	**48.6126**	0.942	1.9	ug/L	93	KED
|	Zn -4	67	2258.8	2.0	**47.2392**	1.161	2.5	ug/L	15	KED
|	Zn -5	68	10439.1	1.4	**47.9505**	0.488	1.0	ug/L	68	KED
|	As-2	75	9488.2	1.0	**47.4537**	0.697	1.5	ug/L	3	KED
	Y-1	89	61228.3	0.8				ug/L	64897	KED
	Rh-1	103	41546.3	1.6				ug/L	44712	KED
|	Cd -2	111	27450.0	1.1	**47.0848**	0.685	1.5	ug/L	4	KED
|	Cd -3	114	71707.2	0.8	**46.7371**	0.317	0.7	ug/L	8	KED
|>	Sc	45	713691.4	1.8				ug/L	772316	Standard
|>	Ge	72	411573.5	2.8				ug/L	431846	Standard
|>	In	115	403416.0	1.3				ug/L	412957	Standard
|>	Tb	159	535708.1	0.6				ug/L	554761	Standard
|>	Ge-1	72	28455.3	0.5				ug/L	30473	KED
|>	In-1	115	40287.9	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.409
| >	Ge	72		95.306
| >	In	115		97.690
| >	Tb	159		96.566
| >	Ge-1	72		93.377
| >	In-1	115		94.950

Quantitative Analysis - Summary Report

Sample ID: 05-300-07b 2X

Sample Date/Time: Friday, May 31, 2024 14:08:00
Report Date/Time: Friday, May 31, 2024 14:11:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07b 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	29176.1	2.2	**0.4275**	0.019	4.5	ug/L	23728	Standard
|	Cr -1	53	7412.6	2.4	**1.6857**	0.144	8.5	ug/L	4227	Standard
|	Ni	58	-2265.9	17.7	**0.3955**	0.045	11.5	ug/L	-9347	Standard
|	Ni -1	60	2545.6	3.0	**0.5954**	0.009	1.6	ug/L	242	Standard
|	Ni -2	62	2549.2	4.3	**1.6475**	0.280	17.0	ug/L	1958	Standard
|	Cu	63	15761.4	2.3	**1.5723**	0.013	0.8	ug/L	2502	Standard
|	Cu -1	65	6473.8	2.4	**1.5102**	0.020	1.4	ug/L	483	Standard
|	Zn	66	7602.4	1.8	**3.1375**	0.113	3.6	ug/L	770	Standard
|	Zn -1	67	1366.7	2.1	**3.2807**	0.023	0.7	ug/L	161	Standard
|	Zn -2	68	6071.3	2.3	**3.4822**	0.067	1.9	ug/L	754	Standard
|	As	75	12724.1	2.3	**0.7083**	0.052	7.3	ug/L	12256	Standard
|	As-1	75	1043.6	15.7	**0.4808**	0.072	15.0	ug/L	25	Standard
|	Se	77	216.3	11.1	**0.6033**	0.225	37.3	ug/L	145	Standard
|	Se -1	78	11802.5	1.8	**2.2424**	0.271	12.1	ug/L	12291	Standard
|	Br	79	14559.7	1.3				ug/L	304	Standard
|	Se -2	82	65.3	12.3	**0.2154**	0.034	15.7	ug/L	42	Standard
	Kr	83	29.7	17.3				ug/L	36	Standard
	Y	89	537021.7	2.6				ug/L	618386	Standard
|	Rh	103	94283.9	2.0				ug/L	111544	Standard
|	Cd	111	227.9	14.8	**-0.0048**	0.015	308.9	ug/L	192	Standard
|	Cd -1	114	67.5	18.1	**-0.0165**	0.002	12.3	ug/L	23	Standard
|	Ho	165	471497.1	1.6				ug/L	521140	Standard
|	Pb	208	3330.1	2.3	**0.0658**	0.005	7.2	ug/L	518	Standard
|	Bi	209	260619.8	1.5				ug/L	295516	Standard
|	Th	232	340027.3	1.9				ug/L	378918	Standard
|	Cr -2	52	1055.0	4.4	**0.4009**	0.026	6.6	ug/L	283	KED
|	Cr -3	53	177.7	47.7	**0.5592**	0.341	60.9	ug/L	38	KED
|	Ni -3	58	1458.9	6.1	**0.5796**	0.042	7.3	ug/L	148	KED
|	Ni -4	60	496.3	10.8	**0.4364**	0.050	11.4	ug/L	58	KED
|	Ni -5	62	75.0	16.7	**0.4598**	0.078	17.1	ug/L	12	KED
|	Cu -2	63	3977.9	1.1	**1.4745**	0.005	0.3	ug/L	287	KED
|	Cu -3	65	1856.8	5.8	**1.4816**	0.099	6.7	ug/L	136	KED
|	Zn -3	66	890.4	2.6	**2.9403**	0.108	3.7	ug/L	93	KED
|	Zn -4	67	171.3	7.5	**3.4503**	0.254	7.4	ug/L	15	KED
|	Zn -5	68	773.4	5.2	**3.4703**	0.185	5.3	ug/L	68	KED
|	As-2	75	96.7	12.9	**0.4990**	0.069	13.7	ug/L	3	KED
	Y-1	89	58536.4	0.4				ug/L	64897	KED
	Rh-1	103	38917.9	0.3				ug/L	44712	KED
|	Cd -2	111	5.0	34.6	**-0.0256**	0.003	12.4	ug/L	4	KED
|	Cd -3	114	11.3	10.2	**-0.0322**	0.001	2.8	ug/L	8	KED
|>	Sc	45	679312.8	2.4				ug/L	772316	Standard
|>	Ge	72	383639.9	2.6				ug/L	431846	Standard
|>	In	115	378773.5	2.3				ug/L	412957	Standard
|>	Tb	159	496425.7	2.4				ug/L	554761	Standard
|>	Ge-1	72	26970.8	0.8				ug/L	30473	KED
|>	In-1	115	37621.7	1.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		87.958
| >	Ge	72		88.837
| >	In	115		91.722
| >	Tb	159		89.485
| >	Ge-1	72		88.506
| >	In-1	115		88.666

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bD 2X

Sample Date/Time: Friday, May 31, 2024 14:13:39
Report Date/Time: Friday, May 31, 2024 14:16:59
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bD 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	28665.1	1.3	**0.3509**	0.018	5.1	ug/L	23728	Standard
|	Cr -1	53	6153.3	0.8	**1.0632**	0.022	2.1	ug/L	4227	Standard
|	Ni	58	-1884.8	23.7	**0.4408**	0.047	10.6	ug/L	-9347	Standard
|	Ni -1	60	2683.3	0.4	**0.6009**	0.017	2.9	ug/L	242	Standard
|	Ni -2	62	2136.2	1.6	**0.8107**	0.119	14.7	ug/L	1958	Standard
|	Cu	63	15951.9	0.5	**1.5174**	0.040	2.7	ug/L	2502	Standard
|	Cu -1	65	6553.2	1.5	**1.4618**	0.030	2.0	ug/L	483	Standard
|	Zn	66	7594.7	3.0	**2.9817**	0.062	2.1	ug/L	770	Standard
|	Zn -1	67	1350.1	2.8	**3.0738**	0.030	1.0	ug/L	161	Standard
|	Zn -2	68	6105.3	4.4	**3.3323**	0.084	2.5	ug/L	754	Standard
|	As	75	12747.5	2.2	**0.4424**	0.093	21.1	ug/L	12256	Standard
|	As-1	75	984.4	6.2	**0.4323**	0.018	4.1	ug/L	25	Standard
|	Se	77	176.3	3.6	**0.2407**	0.072	29.9	ug/L	145	Standard
|	Se -1	78	11860.3	1.8	**1.1340**	0.443	39.1	ug/L	12291	Standard
|	Br	79	15540.5	2.5				ug/L	304	Standard
|	Se -2	82	55.7	8.9	**0.1519**	0.029	18.9	ug/L	42	Standard
	Kr	83	34.0	19.3				ug/L	36	Standard
	Y	89	554561.7	0.8				ug/L	618386	Standard
|	Rh	103	96493.8	1.2				ug/L	111544	Standard
|	Cd	111	208.3	2.8	**-0.0139**	0.003	19.7	ug/L	192	Standard
|	Cd -1	114	33.3	15.4	**-0.0217**	0.001	2.8	ug/L	23	Standard
|	Ho	165	471440.4	2.5				ug/L	521140	Standard
|	Pb	208	3244.8	2.8	**0.0630**	0.001	1.9	ug/L	518	Standard
|	Bi	209	259831.4	1.8				ug/L	295516	Standard
|	Th	232	338218.4	0.8				ug/L	378918	Standard
|	Cr -2	52	996.7	4.2	**0.3530**	0.021	5.8	ug/L	283	KED
|	Cr -3	53	137.7	3.4	**0.3790**	0.019	4.9	ug/L	38	KED
|	Ni -3	58	1533.5	2.9	**0.5865**	0.017	2.9	ug/L	148	KED
|	Ni -4	60	497.0	3.7	**0.4191**	0.018	4.2	ug/L	58	KED
|	Ni -5	62	75.7	6.7	**0.4459**	0.031	6.9	ug/L	12	KED
|	Cu -2	63	4030.9	1.9	**1.4368**	0.027	1.9	ug/L	287	KED
|	Cu -3	65	1905.1	0.8	**1.4622**	0.012	0.8	ug/L	136	KED
|	Zn -3	66	937.0	1.0	**2.9825**	0.037	1.3	ug/L	93	KED
|	Zn -4	67	181.3	12.5	**3.5223**	0.482	13.7	ug/L	15	KED
|	Zn -5	68	751.4	1.2	**3.2257**	0.048	1.5	ug/L	68	KED
|	As-2	75	98.3	30.8	**0.4880**	0.153	31.4	ug/L	3	KED
	Y-1	89	60022.2	0.6				ug/L	64897	KED
	Rh-1	103	40164.0	0.8				ug/L	44712	KED
|	Cd -2	111	5.7	20.4	**-0.0247**	0.002	7.7	ug/L	4	KED
|	Cd -3	114	12.7	12.1	**-0.0315**	0.001	3.1	ug/L	8	KED
|>	Sc	45	706734.4	0.3				ug/L	772316	Standard
|>	Ge	72	401024.1	2.5				ug/L	431846	Standard
|>	In	115	386635.8	2.9				ug/L	412957	Standard
|>	Tb	159	496870.3	1.8				ug/L	554761	Standard
|>	Ge-1	72	28023.5	0.1				ug/L	30473	KED
|>	In-1	115	38748.3	1.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		91.508
|>	Ge	72		92.863
|>	In	115		93.626
|>	Tb	159		89.565
|>	Ge-1	72		91.960
|>	In-1	115		91.321

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bL 10X

Sample Date/Time: Friday, May 31, 2024 14:19:56
Report Date/Time: Friday, May 31, 2024 14:23:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bL 10X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	23516.3	0.7	**0.0855**	0.011	12.7	ug/L	23728	Standard
|	Cr -1	53	3509.8	1.2	**-0.0313**	0.022	68.9	ug/L	4227	Standard
|	Ni	58	-6609.0	6.8	**0.0126**	0.055	435.9	ug/L	-9347	Standard
|	Ni -1	60	684.3	4.7	**0.1342**	0.004	2.8	ug/L	242	Standard
|	Ni -2	62	1582.1	2.7	**-0.1200**	0.127	105.6	ug/L	1958	Standard
|	Cu	63	4483.4	2.6	**0.2935**	0.008	2.7	ug/L	2502	Standard
|	Cu -1	65	1504.7	2.4	**0.3038**	0.014	4.5	ug/L	483	Standard
|	Zn	66	2216.5	4.6	**0.6030**	0.018	3.0	ug/L	770	Standard
|	Zn -1	67	402.0	8.6	**0.5582**	0.062	11.2	ug/L	161	Standard
|	Zn -2	68	1807.4	3.1	**0.6646**	0.019	2.9	ug/L	754	Standard
|	As	75	12064.2	1.2	**-0.0179**	0.097	545.4	ug/L	12256	Standard
|	As-1	75	150.6	6.0	**0.0496**	0.002	4.4	ug/L	25	Standard
|	Se	77	111.7	16.6	**-0.2480**	0.109	44.0	ug/L	145	Standard
|	Se -1	78	11957.7	1.1	**0.7301**	0.510	69.9	ug/L	12291	Standard
|	Br	79	3770.8	4.0				ug/L	304	Standard
|	Se -2	82	35.0	13.1	**0.0428**	0.027	64.0	ug/L	42	Standard
	Kr	83	29.7	12.8				ug/L	36	Standard
	Y	89	587395.7	0.8				ug/L	618386	Standard
|	Rh	103	101979.7	0.7				ug/L	111544	Standard
|	Cd	111	212.9	5.4	**-0.0145**	0.005	33.2	ug/L	192	Standard
|	Cd -1	114	36.9	16.1	**-0.0213**	0.001	4.1	ug/L	23	Standard
|	Ho	165	483745.6	3.0				ug/L	521140	Standard
|	Pb	208	1041.7	2.4	**-0.0061**	0.000	7.3	ug/L	518	Standard
|	Bi	209	266995.0	0.9				ug/L	295516	Standard
|	Th	232	319100.4	3.1				ug/L	378918	Standard
|	Cr -2	52	401.7	2.4	**0.0589**	0.007	11.8	ug/L	283	KED
|	Cr -3	53	48.7	6.6	**0.0312**	0.011	34.7	ug/L	38	KED
|	Ni -3	58	372.4	11.3	**0.1083**	0.018	16.2	ug/L	148	KED
|	Ni -4	60	133.0	8.7	**0.0728**	0.012	16.8	ug/L	58	KED
|	Ni -5	62	21.0	4.8	**0.0999**	0.004	4.4	ug/L	12	KED
|	Cu -2	63	920.7	2.5	**0.2733**	0.003	0.9	ug/L	287	KED
|	Cu -3	65	464.3	3.6	**0.3162**	0.007	2.2	ug/L	136	KED
|	Zn -3	66	273.7	8.4	**0.5658**	0.094	16.7	ug/L	93	KED
|	Zn -4	67	53.7	7.8	**0.7432**	0.103	13.9	ug/L	15	KED
|	Zn -5	68	229.0	1.5	**0.7282**	0.029	4.0	ug/L	68	KED
|	As-2	75	19.0	36.8	**0.0809**	0.034	41.9	ug/L	3	KED
	Y-1	89	61644.4	0.6				ug/L	64897	KED
	Rh-1	103	42047.1	1.3				ug/L	44712	KED
|	Cd -2	111	5.0	52.9	**-0.0261**	0.005	17.4	ug/L	4	KED
|	Cd -3	114	10.0	17.3	**-0.0336**	0.001	3.5	ug/L	8	KED
|>	Sc	45	728772.9	1.0				ug/L	772316	Standard
|>	Ge	72	410381.8	2.7				ug/L	431846	Standard
|>	In	115	398105.1	1.3				ug/L	412957	Standard
|>	Tb	159	517937.9	1.1				ug/L	554761	Standard
|>	Ge-1	72	29277.6	1.7				ug/L	30473	KED
|>	In-1	115	40033.2	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		94.362
|>	Ge	72		95.030
|>	In	115		96.404
|>	Tb	159		93.362
|>	Ge-1	72		96.076
|>	In-1	115		94.349

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bMS 2X

Sample Date/Time: Friday, May 31, 2024 14:25:35
Report Date/Time: Friday, May 31, 2024 14:28:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bMS 2X.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1120275.3	2.2	**48.5435**	0.694	1.4	ug/L	23728	Standard
|	Cr -1	53	128962.4	2.6	**48.6833**	0.654	1.3	ug/L	4227	Standard
|	Ni	58	537029.5	1.7	**50.2066**	0.334	0.7	ug/L	-9347	Standard
|	Ni -1	60	215776.4	2.6	**49.2572**	0.313	0.6	ug/L	242	Standard
|	Ni -2	62	32007.2	3.1	**47.2515**	0.452	1.0	ug/L	1958	Standard
|	Cu	63	477229.8	2.5	**49.6047**	0.241	0.5	ug/L	2502	Standard
|	Cu -1	65	223067.5	2.0	**50.0986**	0.137	0.3	ug/L	483	Standard
|	Zn	66	123607.5	0.3	**53.0947**	1.166	2.2	ug/L	770	Standard
|	Zn -1	67	21156.3	2.8	**54.3536**	0.551	1.0	ug/L	161	Standard
|	Zn -2	68	88598.6	0.6	**53.3515**	1.091	2.0	ug/L	754	Standard
|	As	75	123085.7	1.6	**52.7522**	0.702	1.3	ug/L	12256	Standard
|	As-1	75	113495.1	1.3	**51.2083**	0.676	1.3	ug/L	25	Standard
|	Se	77	7345.2	4.1	**51.3206**	1.561	3.0	ug/L	145	Standard
|	Se -1	78	35273.8	2.7	**54.4686**	0.777	1.4	ug/L	12291	Standard
|	Br	79	14055.2	2.0				ug/L	304	Standard
|	Se -2	82	10129.9	1.7	**50.7655**	0.256	0.5	ug/L	42	Standard
	Kr	83	32.3	7.8				ug/L	36	Standard
	Y	89	584829.2	3.2				ug/L	618386	Standard
|	Rh	103	102714.4	2.3				ug/L	111544	Standard
|	Cd	111	139250.2	2.2	**49.1877**	0.490	1.0	ug/L	192	Standard
|	Cd -1	114	358808.6	2.5	**49.7648**	0.628	1.3	ug/L	23	Standard
|	Ho	165	499850.4	2.8				ug/L	521140	Standard
|	Pb	208	1667733.8	2.4	**47.9587**	0.487	1.0	ug/L	518	Standard
|	Bi	209	275584.5	2.5				ug/L	295516	Standard
|	Th	232	360718.7	1.2				ug/L	378918	Standard
|	Cr -2	52	101978.4	1.3	**48.8699**	1.100	2.3	ug/L	283	KED
|	Cr -3	53	12834.1	0.7	**48.8559**	0.574	1.2	ug/L	38	KED
|	Ni -3	58	119964.5	0.5	**48.7063**	0.703	1.4	ug/L	148	KED
|	Ni -4	60	51870.0	0.6	**48.5517**	0.715	1.5	ug/L	58	KED
|	Ni -5	62	7784.5	0.5	**48.4389**	0.588	1.2	ug/L	12	KED
|	Cu -2	63	134613.3	1.3	**49.6674**	0.945	1.9	ug/L	287	KED
|	Cu -3	65	62682.6	1.7	**49.1410**	1.168	2.4	ug/L	136	KED
|	Zn -3	66	14730.6	2.0	**52.3792**	1.382	2.6	ug/L	93	KED
|	Zn -4	67	2460.2	1.7	**52.2770**	1.398	2.7	ug/L	15	KED
|	Zn -5	68	11061.6	0.8	**51.6123**	0.761	1.5	ug/L	68	KED
|	As-2	75	9726.6	0.5	**49.3875**	0.208	0.4	ug/L	3	KED
	Y-1	89	60681.6	1.1				ug/L	64897	KED
	Rh-1	103	40409.1	0.8				ug/L	44712	KED
|	Cd -2	111	27877.2	1.6	**49.1340**	0.222	0.5	ug/L	4	KED
|	Cd -3	114	72796.0	0.7	**48.7589**	0.386	0.8	ug/L	8	KED
| >	Sc	45	724754.5	3.6				ug/L	772316	Standard
| >	Ge	72	406496.4	2.2				ug/L	431846	Standard
| >	In	115	403762.7	1.3				ug/L	412957	Standard
| >	Tb	159	530985.9	3.4				ug/L	554761	Standard
| >	Ge-1	72	28028.1	0.9				ug/L	30473	KED
| >	In-1	115	39207.4	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		93.842
| >	Ge	72		94.130
| >	In	115		97.774
| >	Tb	159		95.714
| >	Ge-1	72		91.976
| >	In-1	115		92.403

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bMSD 2X

Sample Date/Time: Friday, May 31, 2024 14:31:15
Report Date/Time: Friday, May 31, 2024 14:34:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bMSD 2X.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1098174.0	1.7	**48.9921**	0.673	1.4	ug/L	23728	Standard
|	Cr -1	53	128204.7	0.8	**49.8557**	0.207	0.4	ug/L	4227	Standard
|	Ni	58	537722.5	2.6	**50.8164**	0.685	1.3	ug/L	-9347	Standard
|	Ni -1	60	213537.6	1.4	**49.2950**	0.504	1.0	ug/L	242	Standard
|	Ni -2	62	32147.1	2.4	**48.0295**	0.321	0.7	ug/L	1958	Standard
|	Cu	63	482348.0	2.3	**50.6980**	0.406	0.8	ug/L	2502	Standard
|	Cu -1	65	220336.7	2.1	**50.0327**	0.187	0.4	ug/L	483	Standard
|	Zn	66	124869.9	2.2	**54.2222**	0.383	0.7	ug/L	770	Standard
|	Zn -1	67	21211.7	1.5	**55.1144**	0.160	0.3	ug/L	161	Standard
|	Zn -2	68	88404.1	1.6	**53.8168**	0.311	0.6	ug/L	754	Standard
|	As	75	122521.2	2.1	**53.1227**	0.412	0.8	ug/L	12256	Standard
|	As-1	75	112780.8	2.4	**51.4426**	0.680	1.3	ug/L	25	Standard
|	Se	77	7389.6	2.5	**52.2240**	0.499	1.0	ug/L	145	Standard
|	Se -1	78	35065.7	1.6	**54.8937**	0.568	1.0	ug/L	12291	Standard
|	Br	79	13694.6	2.2				ug/L	304	Standard
|	Se -2	82	9989.2	2.1	**50.6172**	0.955	1.9	ug/L	42	Standard
	Kr	83	35.3	41.4				ug/L	36	Standard
	Y	89	570299.6	1.6				ug/L	618386	Standard
|	Rh	103	99856.8	1.0				ug/L	111544	Standard
|	Cd	111	140497.8	1.2	**50.3164**	0.374	0.7	ug/L	192	Standard
|	Cd -1	114	356098.2	0.6	**50.0749**	0.429	0.9	ug/L	23	Standard
|	Ho	165	492572.4	1.1				ug/L	521140	Standard
|	Pb	208	1648258.2	1.4	**48.3525**	0.406	0.8	ug/L	518	Standard
|	Bi	209	266519.2	2.0				ug/L	295516	Standard
|	Th	232	342039.4	1.8				ug/L	378918	Standard
|	Cr -2	52	104380.3	0.5	**49.7521**	0.479	1.0	ug/L	283	KED
|	Cr -3	53	13073.6	0.8	**49.5019**	0.036	0.1	ug/L	38	KED
|	Ni -3	58	121681.6	1.2	**49.1402**	0.871	1.8	ug/L	148	KED
|	Ni -4	60	53066.7	0.9	**49.4036**	0.074	0.1	ug/L	58	KED
|	Ni -5	62	7825.5	1.7	**48.4335**	0.899	1.9	ug/L	12	KED
|	Cu -2	63	135984.6	1.3	**49.9006**	0.279	0.6	ug/L	287	KED
|	Cu -3	65	63932.8	1.9	**49.8466**	0.667	1.3	ug/L	136	KED
|	Zn -3	66	15211.1	0.7	**53.8044**	0.453	0.8	ug/L	93	KED
|	Zn -4	67	2498.6	2.0	**52.8035**	0.955	1.8	ug/L	15	KED
|	Zn -5	68	11496.0	2.8	**53.3541**	1.105	2.1	ug/L	68	KED
|	As-2	75	10029.2	0.6	**50.6521**	0.088	0.2	ug/L	3	KED
	Y-1	89	60605.0	1.2				ug/L	64897	KED
	Rh-1	103	40321.8	1.0				ug/L	44712	KED
|	Cd -2	111	28329.4	0.7	**50.1585**	0.954	1.9	ug/L	4	KED
|	Cd -3	114	73697.3	0.5	**49.5793**	0.501	1.0	ug/L	8	KED
| >	Sc	45	703818.3	0.4				ug/L	772316	Standard
| >	Ge	72	402019.0	1.8				ug/L	431846	Standard
| >	In	115	398305.5	1.4				ug/L	412957	Standard
| >	Tb	159	520387.0	0.9				ug/L	554761	Standard
| >	Ge-1	72	28178.1	0.7				ug/L	30473	KED
| >	In-1	115	39038.2	1.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		91.131
| >	Ge	72		93.093
| >	In	115		96.452
| >	Tb	159		93.804
| >	Ge-1	72		92.468
| >	In-1	115		92.004

Quantitative Analysis - Summary Report

Sample ID: 05-300-07bPS 2X

Sample Date/Time: Friday, May 31, 2024 14:36:55
Report Date/Time: Friday, May 31, 2024 14:40:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-300-07bPS 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	826203.5	2.1	**38.1796**	0.281	0.7	ug/L	23728	Standard
|	Cr -1	53	98208.5	1.8	**39.4922**	0.329	0.8	ug/L	4227	Standard
|	Ni	58	397624.5	1.4	**40.3478**	0.398	1.0	ug/L	-9347	Standard
|	Ni -1	60	161245.4	1.5	**39.8311**	0.344	0.9	ug/L	242	Standard
|	Ni -2	62	24333.0	1.3	**38.4270**	0.505	1.3	ug/L	1958	Standard
|	Cu	63	362967.7	2.5	**40.7931**	0.051	0.1	ug/L	2502	Standard
|	Cu -1	65	166427.8	2.1	**40.4377**	0.115	0.3	ug/L	483	Standard
|	Zn	66	94985.6	3.4	**44.0669**	0.484	1.1	ug/L	770	Standard
|	Zn -1	67	16515.2	3.8	**45.8308**	0.915	2.0	ug/L	161	Standard
|	Zn -2	68	68204.8	2.3	**44.3564**	0.205	0.5	ug/L	754	Standard
|	As	75	94181.6	2.1	**42.6915**	0.270	0.6	ug/L	12256	Standard
|	As-1	75	84428.6	2.1	**41.2101**	0.335	0.8	ug/L	25	Standard
|	Se	77	5570.1	1.2	**41.9390**	0.823	2.0	ug/L	145	Standard
|	Se -1	78	29056.5	2.5	**45.6748**	0.370	0.8	ug/L	12291	Standard
|	Br	79	15262.8	1.5				ug/L	304	Standard
|	Se -2	82	7617.4	2.7	**41.2780**	0.643	1.6	ug/L	42	Standard
	Kr	83	23.3	17.8				ug/L	36	Standard
	Y	89	539000.0	3.1				ug/L	618386	Standard
|	Rh	103	93508.8	2.4				ug/L	111544	Standard
|	Cd	111	104334.4	2.7	**40.4093**	0.649	1.6	ug/L	192	Standard
|	Cd -1	114	269706.5	1.2	**41.0338**	0.356	0.9	ug/L	23	Standard
|	Ho	165	453070.6	0.7				ug/L	521140	Standard
|	Pb	208	1223087.1	0.6	**38.9009**	0.057	0.1	ug/L	518	Standard
|	Bi	209	248177.2	0.3				ug/L	295516	Standard
|	Th	232	315432.1	1.8				ug/L	378918	Standard
|	Cr -2	52	79967.9	0.6	**40.6324**	0.211	0.5	ug/L	283	KED
|	Cr -3	53	10068.9	0.7	**40.6412**	0.445	1.1	ug/L	38	KED
|	Ni -3	58	93726.3	0.4	**40.3652**	0.314	0.8	ug/L	148	KED
|	Ni -4	60	40773.8	0.9	**40.4827**	0.495	1.2	ug/L	58	KED
|	Ni -5	62	6153.0	1.9	**40.6161**	0.807	2.0	ug/L	12	KED
|	Cu -2	63	105330.9	0.1	**41.2213**	0.227	0.6	ug/L	287	KED
|	Cu -3	65	49129.7	1.1	**40.8556**	0.546	1.3	ug/L	136	KED
|	Zn -3	66	11754.5	1.5	**44.2820**	0.533	1.2	ug/L	93	KED
|	Zn -4	67	1969.5	1.7	**44.3411**	0.785	1.8	ug/L	15	KED
|	Zn -5	68	8998.8	1.2	**44.5044**	0.585	1.3	ug/L	68	KED
|	As-2	75	7617.0	2.1	**41.0330**	0.949	2.3	ug/L	3	KED
	Y-1	89	57161.1	0.8				ug/L	64897	KED
	Rh-1	103	38195.0	0.5				ug/L	44712	KED
|	Cd -2	111	21353.6	0.8	**40.1052**	0.077	0.2	ug/L	4	KED
|	Cd -3	114	56463.0	0.7	**40.2965**	0.095	0.2	ug/L	8	KED
| >	Sc	45	675922.9	2.6				ug/L	772316	Standard
| >	Ge	72	375685.6	2.4				ug/L	431846	Standard
| >	In	115	368095.1	1.7				ug/L	412957	Standard
| >	Tb	159	479891.3	0.5				ug/L	554761	Standard
| >	Ge-1	72	26417.1	0.4				ug/L	30473	KED
| >	In-1	115	36788.7	0.8				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		87.519
| >	Ge	72		86.995
| >	In	115		89.136
| >	Tb	159		86.504
| >	Ge-1	72		86.689
| >	In-1	115		86.703

Quantitative Analysis - Summary Report

Sample ID: 05-353-02k 2X

Sample Date/Time: Friday, May 31, 2024 14:42:36
Report Date/Time: Friday, May 31, 2024 14:45:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-353-02k 2X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	43061.5	1.5	**0.8404**	0.014	1.7	ug/L	23728	Standard
|	Cr -1	53	13713.9	3.4	**3.6201**	0.241	6.7	ug/L	4227	Standard
|	Ni	58	9640.5	14.6	**1.4671**	0.116	7.9	ug/L	-9347	Standard
|	Ni -1	60	6585.5	2.6	**1.4158**	0.062	4.4	ug/L	242	Standard
|	Ni -2	62	2182.8	1.6	**0.6820**	0.049	7.2	ug/L	1958	Standard
|	Cu	63	6587.5	2.5	**0.4860**	0.006	1.2	ug/L	2502	Standard
|	Cu -1	65	1226.4	2.1	**0.2317**	0.007	3.0	ug/L	483	Standard
|	Zn	66	2725.9	2.6	**0.7789**	0.007	1.0	ug/L	770	Standard
|	Zn -1	67	589.3	3.6	**0.9849**	0.029	3.0	ug/L	161	Standard
|	Zn -2	68	2710.9	3.6	**1.1483**	0.046	4.0	ug/L	754	Standard
|	As	75	13185.8	1.0	**0.2844**	0.155	54.4	ug/L	12256	Standard
|	As-1	75	736.2	2.9	**0.2995**	0.011	3.6	ug/L	25	Standard
|	Se	77	627.7	2.6	**3.2367**	0.094	2.9	ug/L	145	Standard
|	Se -1	78	12564.5	0.9	**1.0704**	0.662	61.8	ug/L	12291	Standard
|	Br	79	12387.4	3.0				ug/L	304	Standard
|	Se -2	82	63.7	13.7	**0.1730**	0.036	21.0	ug/L	42	Standard
	Kr	83	29.0	22.6				ug/L	36	Standard
	Y	89	601046.2	3.3				ug/L	618386	Standard
|	Rh	103	103404.2	3.8				ug/L	111544	Standard
|	Cd	111	268.9	3.6	**0.0018**	0.006	318.8	ug/L	192	Standard
|	Cd -1	114	69.8	13.8	**-0.0171**	0.002	9.5	ug/L	23	Standard
|	Ho	165	525490.2	2.9				ug/L	521140	Standard
|	Pb	208	4818.6	1.6	**0.0964**	0.003	3.3	ug/L	518	Standard
|	Bi	209	280449.5	2.9				ug/L	295516	Standard
|	Th	232	367508.1	1.4				ug/L	378918	Standard
|	Cr -2	52	693.0	2.9	**0.2067**	0.004	1.8	ug/L	283	KED
|	Cr -3	53	96.3	6.0	**0.2211**	0.029	13.1	ug/L	38	KED
|	Ni -3	58	3738.9	5.5	**1.4822**	0.109	7.3	ug/L	148	KED
|	Ni -4	60	884.0	3.9	**0.7813**	0.046	5.8	ug/L	58	KED
|	Ni -5	62	130.0	9.5	**0.7832**	0.071	9.1	ug/L	12	KED
|	Cu -2	63	539.0	1.4	**0.1468**	0.007	4.5	ug/L	287	KED
|	Cu -3	65	252.3	6.2	**0.1652**	0.009	5.4	ug/L	136	KED
|	Zn -3	66	299.3	5.2	**0.6984**	0.076	10.9	ug/L	93	KED
|	Zn -4	67	55.0	15.9	**0.8177**	0.176	21.5	ug/L	15	KED
|	Zn -5	68	265.3	7.1	**0.9443**	0.108	11.4	ug/L	68	KED
|	As-2	75	56.0	16.4	**0.2724**	0.042	15.6	ug/L	3	KED
	Y-1	89	61784.0	0.7				ug/L	64897	KED
	Rh-1	103	39741.9	1.3				ug/L	44712	KED
|	Cd -2	111	5.7	71.3	**-0.0249**	0.007	28.2	ug/L	4	KED
|	Cd -3	114	14.0	18.9	**-0.0309**	0.002	5.8	ug/L	8	KED
|>	Sc	45	770968.2	1.5				ug/L	772316	Standard
|>	Ge	72	425862.2	1.9				ug/L	431846	Standard
|>	In	115	414489.4	3.1				ug/L	412957	Standard
|>	Tb	159	553095.7	3.5				ug/L	554761	Standard
|>	Ge-1	72	28053.5	1.8				ug/L	30473	KED
|>	In-1	115	39702.8	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
|	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		99.826
| >	Ge	72		98.614
| >	In	115		100.371
| >	Tb	159		99.700
| >	Ge-1	72		92.059
| >	In-1	115		93.571

Quantitative Analysis - Summary Report

Sample ID: 05-353-07k 2X

Sample Date/Time: Friday, May 31, 2024 14:48:16
Report Date/Time: Friday, May 31, 2024 14:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\05-353-07k 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	42009.0	1.1	**0.8342**	0.045	5.4	ug/L	23728	Standard
|	Cr -1	53	8240.4	1.6	**1.6871**	0.156	9.2	ug/L	4227	Standard
|	Ni	58	513.9	162.1	**0.6643**	0.075	11.3	ug/L	-9347	Standard
|	Ni -1	60	4534.4	1.4	**0.9793**	0.012	1.2	ug/L	242	Standard
|	Ni -2	62	1382.7	5.7	**-0.4824**	0.146	30.2	ug/L	1958	Standard
|	Cu	63	4425.7	1.2	**0.2759**	0.004	1.5	ug/L	2502	Standard
|	Cu -1	65	587.3	3.1	**0.0961**	0.004	4.1	ug/L	483	Standard
|	Zn	66	968.0	1.0	**0.0584**	0.009	15.1	ug/L	770	Standard
|	Zn -1	67	234.0	10.5	**0.1126**	0.059	52.4	ug/L	161	Standard
|	Zn -2	68	1368.4	1.1	**0.3801**	0.019	5.0	ug/L	754	Standard
|	As	75	13232.7	1.5	**0.3721**	0.019	5.0	ug/L	12256	Standard
|	As-1	75	177.5	19.9	**0.0598**	0.016	27.5	ug/L	25	Standard
|	Se	77	415.7	2.2	**1.8260**	0.034	1.9	ug/L	145	Standard
|	Se -1	78	13181.4	1.7	**2.7417**	0.160	5.8	ug/L	12291	Standard
|	Br	79	23958.1	2.9				ug/L	304	Standard
|	Se -2	82	69.0	3.8	**0.2029**	0.016	8.0	ug/L	42	Standard
	Kr	83	29.7	11.8				ug/L	36	Standard
	Y	89	607641.8	2.5				ug/L	618386	Standard
|	Rh	103	104143.9	1.1				ug/L	111544	Standard
|	Cd	111	228.0	9.3	**-0.0118**	0.007	55.2	ug/L	192	Standard
|	Cd -1	114	19.1	12.4	**-0.0239**	0.000	1.4	ug/L	23	Standard
|	Ho	165	526805.9	2.5				ug/L	521140	Standard
|	Pb	208	4424.3	1.2	**0.0846**	0.001	1.6	ug/L	518	Standard
|	Bi	209	288463.7	1.9				ug/L	295516	Standard
|	Th	232	367366.9	1.4				ug/L	378918	Standard
|	Cr -2	52	536.0	3.5	**0.1360**	0.012	8.6	ug/L	283	KED
|	Cr -3	53	73.3	22.5	**0.1379**	0.064	46.4	ug/L	38	KED
|	Ni -3	58	1364.8	4.7	**0.5273**	0.031	5.9	ug/L	148	KED
|	Ni -4	60	439.7	6.7	**0.3721**	0.026	7.1	ug/L	58	KED
|	Ni -5	62	75.0	5.8	**0.4497**	0.032	7.1	ug/L	12	KED
|	Cu -2	63	160.3	16.2	**0.0081**	0.010	123.5	ug/L	287	KED
|	Cu -3	65	83.3	9.8	**0.0341**	0.007	20.7	ug/L	136	KED
|	Zn -3	66	87.7	17.8	**-0.0542**	0.057	104.6	ug/L	93	KED
|	Zn -4	67	23.0	15.7	**0.1429**	0.075	52.2	ug/L	15	KED
|	Zn -5	68	83.3	12.8	**0.0966**	0.049	50.7	ug/L	68	KED
|	As-2	75	16.3	3.5	**0.0730**	0.002	3.0	ug/L	3	KED
	Y-1	89	61155.0	0.1				ug/L	64897	KED
	Rh-1	103	39087.7	0.4				ug/L	44712	KED
|	Cd -2	111	4.0	50.0	**-0.0278**	0.003	12.6	ug/L	4	KED
|	Cd -3	114	7.0	37.8	**-0.0355**	0.002	5.0	ug/L	8	KED
|>	Sc	45	755174.7	3.5				ug/L	772316	Standard
|>	Ge	72	421057.0	1.3				ug/L	431846	Standard
|>	In	115	411299.6	1.4				ug/L	412957	Standard
|>	Tb	159	556775.9	2.3				ug/L	554761	Standard
|>	Ge-1	72	27567.2	1.0				ug/L	30473	KED
|>	In-1	115	39910.2	0.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		97.781
|>	Ge	72		97.502
|>	In	115		99.599
|>	Tb	159		100.363
|>	Ge-1	72		90.463
|>	In-1	115		94.060

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, May 31, 2024 14:53:57
Report Date/Time: Friday, May 31, 2024 14:57:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 6.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	973011.4	0.6	**41.1915**	0.781	1.9	ug/L	23728	Standard
|	Cr -1	53	114799.4	0.8	**42.3063**	0.448	1.1	ug/L	4227	Standard
|	Ni	58	484837.1	0.7	**40.2743**	0.681	1.7	ug/L	-9347	Standard
|	Ni -1	60	194915.1	0.7	**39.4148**	0.665	1.7	ug/L	242	Standard
|	Ni -2	62	28767.6	1.4	**37.1029**	0.629	1.7	ug/L	1958	Standard
|	Cu	63	426461.7	1.5	**39.2296**	0.294	0.7	ug/L	2502	Standard
|	Cu -1	65	196303.7	1.3	**39.0433**	0.278	0.7	ug/L	483	Standard
|	Zn	66	106563.7	1.3	**40.4538**	0.740	1.8	ug/L	770	Standard
|	Zn -1	67	18471.6	0.3	**41.9391**	0.957	2.3	ug/L	161	Standard
|	Zn -2	68	76485.2	1.0	**40.6863**	0.411	1.0	ug/L	754	Standard
|	As	75	115087.0	1.5	**42.7048**	0.405	0.9	ug/L	12256	Standard
|	As-1	75	104508.5	1.7	**41.7550**	0.271	0.6	ug/L	25	Standard
|	Se	77	7025.1	1.3	**43.3224**	0.287	0.7	ug/L	145	Standard
|	Se -1	78	34505.0	0.9	**43.6697**	0.782	1.8	ug/L	12291	Standard
|	Br	79	1044.7	7.8				ug/L	304	Standard
|	Se -2	82	9439.5	1.8	**41.8739**	0.437	1.0	ug/L	42	Standard
	Kr	83	31.7	4.8				ug/L	36	Standard
	Y	89	658236.3	1.6				ug/L	618386	Standard
|	Rh	103	116700.4	1.0				ug/L	111544	Standard
|	Cd	111	126857.8	1.0	**41.9152**	0.587	1.4	ug/L	192	Standard
|	Cd -1	114	320081.5	1.1	**41.5327**	0.163	0.4	ug/L	23	Standard
|	Ho	165	554160.5	1.0				ug/L	521140	Standard
|	Pb	208	1532902.0	1.2	**39.9319**	0.219	0.5	ug/L	518	Standard
|	Bi	209	305780.0	1.9				ug/L	295516	Standard
|	Th	232	371043.6	2.4				ug/L	378918	Standard
|	Cr -2	52	89348.9	0.9	**39.9424**	0.567	1.4	ug/L	283	KED
|	Cr -3	53	11196.1	0.3	**39.7565**	0.362	0.9	ug/L	38	KED
|	Ni -3	58	104668.8	0.3	**39.6598**	0.323	0.8	ug/L	148	KED
|	Ni -4	60	45559.9	0.4	**39.7965**	0.134	0.3	ug/L	58	KED
|	Ni -5	62	6795.9	0.3	**39.4677**	0.198	0.5	ug/L	12	KED
|	Cu -2	63	114021.6	0.6	**39.2567**	0.225	0.6	ug/L	287	KED
|	Cu -3	65	53990.2	1.6	**39.4979**	0.397	1.0	ug/L	136	KED
|	Zn -3	66	12671.0	1.0	**41.9782**	0.181	0.4	ug/L	93	KED
|	Zn -4	67	2014.5	0.7	**39.8686**	0.479	1.2	ug/L	15	KED
|	Zn -5	68	9418.4	1.7	**40.9549**	0.438	1.1	ug/L	68	KED
|	As-2	75	8496.9	1.4	**40.2691**	0.406	1.0	ug/L	3	KED
	Y-1	89	65711.8	0.2				ug/L	64897	KED
	Rh-1	103	43000.6	0.7				ug/L	44712	KED
|	Cd -2	111	24946.8	1.7	**40.4643**	0.869	2.1	ug/L	4	KED
|	Cd -3	114	66222.5	0.6	**40.8152**	0.397	1.0	ug/L	8	KED
|>	Sc	45	739217.3	1.8				ug/L	772316	Standard
|>	Ge	72	458960.1	2.0				ug/L	431846	Standard
|>	In	115	431566.5	0.7				ug/L	412957	Standard
|>	Tb	159	585935.5	1.0				ug/L	554761	Standard
|>	Ge-1	72	30025.9	0.6				ug/L	30473	KED
|>	In-1	115	42600.6	0.4				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	102.979	
|	Cr -1	53	105.766	
|	Ni	58	100.686	
|	Ni -1	60	98.537	
|	Ni -2	62	92.757	
|	Cu	63	98.074	
|	Cu -1	65	97.608	
|	Zn	66	101.135	
|	Zn -1	67	104.848	
|	Zn -2	68	101.716	
|	As	75	106.762	
|	As-1	75	104.387	
|	Se	77	108.306	
|	Se -1	78	109.174	
|	Br	79		
|	Se -2	82	104.685	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	104.788	
|	Cd -1	114	103.832	
|	Ho	165		
|	Pb	208	99.830	
|	Bi	209		
|	Th	232		
|	Cr -2	52	99.856	
|	Cr -3	53	99.391	
|	Ni -3	58	99.149	
|	Ni -4	60	99.491	
|	Ni -5	62	98.669	
|	Cu -2	63	98.142	
|	Cu -3	65	98.745	
|	Zn -3	66	104.946	
|	Zn -4	67	99.672	
|	Zn -5	68	102.387	
|	As-2	75	100.673	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	101.161	
|	Cd -3	114	102.038	
| >	Sc	45		95.714
| >	Ge	72		106.279
| >	In	115		104.506
| >	Tb	159		105.620
| >	Ge-1	72		98.531
| >	In-1	115		100.400

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, May 31, 2024 14:59:38
Report Date/Time: Friday, May 31, 2024 15:02:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 7.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	483658.0	1.1	**19.4906**	0.171	0.9	ug/L	23728	Standard
|	Cr -1	53	57264.2	1.0	**19.8822**	0.247	1.2	ug/L	4227	Standard
|	Ni	58	234364.8	1.5	**19.7185**	0.130	0.7	ug/L	-9347	Standard
|	Ni -1	60	94691.2	1.2	**19.0689**	0.033	0.2	ug/L	242	Standard
|	Ni -2	62	14920.1	1.6	**17.9378**	0.216	1.2	ug/L	1958	Standard
|	Cu	63	209281.6	0.9	**19.0990**	0.072	0.4	ug/L	2502	Standard
|	Cu -1	65	95213.9	0.2	**18.8571**	0.186	1.0	ug/L	483	Standard
|	Zn	66	53145.4	2.3	**19.9281**	0.249	1.3	ug/L	770	Standard
|	Zn -1	67	9144.9	2.0	**20.4486**	0.419	2.1	ug/L	161	Standard
|	Zn -2	68	37847.1	2.5	**19.8465**	0.271	1.4	ug/L	754	Standard
|	As	75	62079.7	0.9	**20.3242**	0.097	0.5	ug/L	12256	Standard
|	As-1	75	50728.4	1.5	**20.1890**	0.069	0.3	ug/L	25	Standard
|	Se	77	3469.1	2.2	**20.7924**	0.240	1.2	ug/L	145	Standard
|	Se -1	78	23023.5	1.0	**20.1748**	0.482	2.4	ug/L	12291	Standard
|	Br	79	707.0	3.6				ug/L	304	Standard
|	Se -2	82	4614.1	3.0	**20.3279**	0.379	1.9	ug/L	42	Standard
	Kr	83	26.0	10.2				ug/L	36	Standard
	Y	89	654727.3	1.5				ug/L	618386	Standard
|	Rh	103	115914.4	1.2				ug/L	111544	Standard
|	Cd	111	62333.4	1.1	**20.4232**	0.034	0.2	ug/L	192	Standard
|	Cd -1	114	156414.1	1.2	**20.1598**	0.172	0.9	ug/L	23	Standard
|	Ho	165	544550.0	1.0				ug/L	521140	Standard
|	Pb	208	736216.3	1.3	**19.6486**	0.235	1.2	ug/L	518	Standard
|	Bi	209	303443.9	0.4				ug/L	295516	Standard
|	Th	232	377456.9	1.0				ug/L	378918	Standard
|	Cr -2	52	45025.2	1.3	**19.8759**	0.328	1.7	ug/L	283	KED
|	Cr -3	53	5674.1	0.8	**19.8856**	0.103	0.5	ug/L	38	KED
|	Ni -3	58	52723.8	0.8	**19.7708**	0.027	0.1	ug/L	148	KED
|	Ni -4	60	23347.1	0.4	**20.1792**	0.065	0.3	ug/L	58	KED
|	Ni -5	62	3465.8	1.7	**19.9248**	0.226	1.1	ug/L	12	KED
|	Cu -2	63	57972.1	0.6	**19.7468**	0.249	1.3	ug/L	287	KED
|	Cu -3	65	27105.7	1.3	**19.6294**	0.348	1.8	ug/L	136	KED
|	Zn -3	66	6436.4	1.3	**20.9399**	0.398	1.9	ug/L	93	KED
|	Zn -4	67	1065.0	6.5	**20.7055**	1.279	6.2	ug/L	15	KED
|	Zn -5	68	4720.8	2.0	**20.1867**	0.537	2.7	ug/L	68	KED
|	As-2	75	4248.3	2.3	**19.9412**	0.553	2.8	ug/L	3	KED
	Y-1	89	66263.7	0.6				ug/L	64897	KED
	Rh-1	103	44239.7	0.1				ug/L	44712	KED
|	Cd -2	111	12262.6	1.4	**19.7287**	0.301	1.5	ug/L	4	KED
|	Cd -3	114	32564.4	0.9	**19.9052**	0.110	0.6	ug/L	8	KED
|>	Sc	45	757437.6	0.7				ug/L	772316	Standard
|>	Ge	72	460512.1	1.2				ug/L	431846	Standard
|>	In	115	434196.1	1.0				ug/L	412957	Standard
|>	Tb	159	571371.4	0.5				ug/L	554761	Standard
|>	Ge-1	72	30310.5	0.6				ug/L	30473	KED
|>	In-1	115	42910.6	1.3				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	97.453	
|	Cr -1	53	99.411	
|	Ni	58	98.593	
|	Ni -1	60	95.344	
|	Ni -2	62	89.689	
|	Cu	63	95.495	
|	Cu -1	65	94.285	
|	Zn	66	99.640	
|	Zn -1	67	102.243	
|	Zn -2	68	99.232	
|	As	75	101.621	
|	As-1	75	100.945	
|	Se	77	103.962	
|	Se -1	78	100.874	
|	Br	79		
|	Se -2	82	101.639	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	102.116	
|	Cd -1	114	100.799	
|	Ho	165		
|	Pb	208	98.243	
|	Bi	209		
|	Th	232		
|	Cr -2	52	99.380	
|	Cr -3	53	99.428	
|	Ni -3	58	98.854	
|	Ni -4	60	100.896	
|	Ni -5	62	99.624	
|	Cu -2	63	98.734	
|	Cu -3	65	98.147	
|	Zn -3	66	104.699	
|	Zn -4	67	103.527	
|	Zn -5	68	100.933	
|	As-2	75	99.706	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	98.644	
|	Cd -3	114	99.526	
|>	Sc	45		98.074
|>	Ge	72		106.638
|>	In	115		105.143
|>	Tb	159		102.994
|>	Ge-1	72		99.465
|>	In-1	115		101.131

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, May 31, 2024 15:05:20
Report Date/Time: Friday, May 31, 2024 15:08:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240530B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240531C\QC Std 8.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	20323.8	0.5	**-0.0397**	0.016	41.4	ug/L	23728	Standard
|	Cr -1	53	2960.6	2.5	**-0.2238**	0.047	21.0	ug/L	4227	Standard
|	Ni	58	-5841.1	3.8	**0.1155**	0.015	13.4	ug/L	-9347	Standard
|	Ni -1	60	238.0	6.0	**0.0301**	0.004	12.9	ug/L	242	Standard
|	Ni -2	62	1529.7	3.1	**-0.3416**	0.105	30.8	ug/L	1958	Standard
|	Cu	63	2018.8	1.9	**0.0265**	0.007	27.1	ug/L	2502	Standard
|	Cu -1	65	478.3	2.4	**0.0688**	0.003	4.5	ug/L	483	Standard
|	Zn	66	792.4	6.7	**-0.0264**	0.024	91.7	ug/L	770	Standard
|	Zn -1	67	154.7	7.8	**-0.0994**	0.027	27.5	ug/L	161	Standard
|	Zn -2	68	743.0	8.4	**-0.0016**	0.035	2200.5	ug/L	754	Standard
|	As	75	12438.4	1.7	**-0.1905**	0.012	6.4	ug/L	12256	Standard
|	As-1	75	10.5	511.1	**-0.0135**	0.022	165.6	ug/L	25	Standard
|	Se	77	116.3	8.1	**-0.2624**	0.049	18.5	ug/L	145	Standard
|	Se -1	78	12482.8	1.3	**0.2334**	0.175	75.0	ug/L	12291	Standard
|	Br	79	558.0	2.5				ug/L	304	Standard
|	Se -2	82	40.0	7.5	**0.0555**	0.015	27.0	ug/L	42	Standard
	Kr	83	29.3	9.8				ug/L	36	Standard
	Y	89	623759.3	0.6				ug/L	618386	Standard
|	Rh	103	111868.3	0.4				ug/L	111544	Standard
|	Cd	111	250.0	2.1	**-0.0046**	0.002	54.1	ug/L	192	Standard
|	Cd -1	114	27.7	17.0	**-0.0228**	0.001	2.9	ug/L	23	Standard
|	Ho	165	520812.9	1.0				ug/L	521140	Standard
|	Pb	208	606.0	1.4	**-0.0202**	0.000	2.4	ug/L	518	Standard
|	Bi	209	288666.7	2.4				ug/L	295516	Standard
|	Th	232	358074.2	2.0				ug/L	378918	Standard
|	Cr -2	52	271.0	2.2	**0.0006**	0.003	501.4	ug/L	283	KED
|	Cr -3	53	34.0	25.6	**-0.0206**	0.032	156.3	ug/L	38	KED
|	Ni -3	58	115.1	6.2	**0.0088**	0.003	31.2	ug/L	148	KED
|	Ni -4	60	47.3	17.1	**-0.0035**	0.007	212.4	ug/L	58	KED
|	Ni -5	62	7.0	37.8	**0.0171**	0.016	91.6	ug/L	12	KED
|	Cu -2	63	279.3	5.2	**0.0481**	0.006	11.9	ug/L	287	KED
|	Cu -3	65	131.0	5.5	**0.0674**	0.006	8.4	ug/L	136	KED
|	Zn -3	66	94.0	1.1	**-0.0463**	0.003	6.1	ug/L	93	KED
|	Zn -4	67	15.0	60.0	**-0.0461**	0.186	403.3	ug/L	15	KED
|	Zn -5	68	71.7	11.2	**0.0259**	0.035	136.1	ug/L	68	KED
|	As-2	75	4.7	44.6	**0.0117**	0.010	87.8	ug/L	3	KED
	Y-1	89	62569.1	0.4				ug/L	64897	KED
	Rh-1	103	41605.5	0.3				ug/L	44712	KED
|	Cd -2	111	3.7	56.8	**-0.0285**	0.003	12.2	ug/L	4	KED
|	Cd -3	114	10.3	29.6	**-0.0334**	0.002	5.9	ug/L	8	KED
|>	Sc	45	716852.0	1.6				ug/L	772316	Standard
|>	Ge	72	436262.9	1.8				ug/L	431846	Standard
|>	In	115	413554.0	0.8				ug/L	412957	Standard
|>	Tb	159	557686.5	1.6				ug/L	554761	Standard
|>	Ge-1	72	28845.4	1.1				ug/L	30473	KED
|>	In-1	115	40651.4	1.5				ug/L	42431	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.819
| >	Ge	72		101.023
| >	In	115		100.145
| >	Tb	159		100.527
| >	Ge-1	72		94.658
| >	In-1	115		95.806

Dataset Report

6-1-24
kmr

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\
Report Date/Time: Saturday, June 01, 2024 12:05:12

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [	[STD/KED] Nebulizer (	07:45:45 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
SmartTune - M	Mass Calibration and f	07:48:17 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
SmartTune - [	[STD] Performance Ch	07:48:57 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Blank	08:11:46 Sat 01-Ju	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 1	08:16:37 Sat 01-Ju	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 2	08:21:27 Sat 01-Ju	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 3	08:26:18 Sat 01-Ju	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 4	08:31:09 Sat 01-Ju	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 5	08:36:00 Sat 01-Ju	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 6	08:40:51 Sat 01-Ju	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 7	08:45:42 Sat 01-Ju	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 1	08:51:23 Sat 01-Ju	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 2	08:57:03 Sat 01-Ju	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	09:01:54 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	09:07:34 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	09:13:15 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	MB0529F1 2X	09:22:40 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	SB0529F1 2X	09:28:20 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-02I 2X	09:34:01 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-07I 2X	09:39:41 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-10I 2X	09:45:21 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-15I 2X	09:51:00 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-02ID 2X	09:56:42 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-02IL 10X	10:02:22 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-02IMS 2X	10:08:04 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-353-02IMSD 2X	10:13:44 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	10:19:25 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	10:25:06 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	10:30:46 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-410-01b 5X	10:36:37 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-01c 10X	10:42:17 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-02c 10X	10:47:57 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-04d 10X	10:53:37 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-05d 10X	10:59:17 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-01d 5X	11:04:58 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-02d 5X	11:10:37 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	BL	11:16:44 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	11:34:57 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	11:46:46 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	11:58:28 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Saturday, June 01, 2024 07:48:57
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\06JUN24\Y240601A\[STD] Performance Check.003
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	58356.9	58356.920	1144.654	2.0	Standard
	In	114.9	367644.0	367644.003	2448.152	0.7	Standard
	U	238.1	382365.7	382365.737	3088.839	0.8	Standard
Ce	CeO	155.9	10376.7	0.023	0.000	1.8	Standard
Ce	Ce++	70.0	10531.5	0.024	0.000	1.5	Standard
	Bkgd	220.5	0.2	0.200	0.183	91.3	Standard
	Ce	139.9	446537.2	446537.178	3138.159	0.7	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
0.99	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
0.99	Ammonia DRC - DRC Mode NEB
2.00	Ammonia DRC - Hyperskimmer Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Helium KED - Hyperskimmer Park Voltage
5.00	Helium KED - OmniRing Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:48:17 Sat 01-Jun-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	7.025	1223	2062	0.688	
Mg	23.985	24.025	4586	2063	0.706	
In	114.904	114.925	22596	2066	0.716	
Pb	207.977	208.025	41061	2066	0.716	
U	238.050	238.075	47023	2067	0.716	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Cr	51.941	Weighted Linear	0.03	-0.00	0.998915
Cr -1	52.941	Weighted Linear	0.00	-0.00	0.999137
Ni	57.935	Weighted Linear	0.03	0.00	0.999283
Ni -1	59.933	Weighted Linear	0.01	-0.00	0.999154
Ni -2	61.928	Weighted Linear	0.00	0.00	0.998259
Cu	62.930	Weighted Linear	0.02	-0.00	0.998923
Cu -1	64.928	Weighted Linear	0.01	-0.00	0.998229
Zn	65.926	Weighted Linear	0.01	0.00	0.999183
Zn -1	66.927	Weighted Linear	0.00	0.00	0.999352
Zn -2	67.925	Weighted Linear	0.00	0.00	0.999238
As	74.922	Weighted Linear	0.01	0.00	0.999706
As-1	74.922	Weighted Linear	0.01	0.00	0.999278
Se	76.920	Weighted Linear	0.00	-0.00	0.999070
Se -1	77.917	Weighted Linear	0.00	-0.00	0.998539
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	0.00	0.999396
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Cd	110.904	Weighted Linear	0.01	0.00	0.999057
Cd -1	113.904	Weighted Linear	0.02	0.00	0.999289
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.07	0.00	0.999145
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Cr -2	51.941	Weighted Linear	0.08	0.00	0.998562
Cr -3	52.941	Weighted Linear	0.01	0.00	0.998906
Ni -3	57.935	Weighted Linear	0.09	0.00	0.998667
Ni -4	59.933	Weighted Linear	0.04	-0.00	0.999029
Ni -5	61.928	Weighted Linear	0.01	0.00	0.997233
Cu -2	62.930	Weighted Linear	0.10	-0.01	0.997865
Cu -3	64.928	Weighted Linear	0.05	-0.00	0.998221
Zn -3	65.926	Weighted Linear	0.01	0.00	0.999592
Zn -4	66.927	Weighted Linear	0.00	0.00	0.999345
Zn -5	67.925	Weighted Linear	0.01	0.00	0.999355
As-2	74.922	Weighted Linear	0.01	-0.00	0.997247
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Cd -2	110.904	Weighted Linear	0.01	0.00	0.999175
Cd -3	113.904	Weighted Linear	0.04	0.00	0.998256
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, June 01, 2024 08:11:46
Report Date/Time: Saturday, June 01, 2024 08:15:07
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Blank.358

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	20847.5	1.6				ug/L		Standard
|	Cr -1	53	2435.5	3.3				ug/L		Standard
|	Ni	58	-7460.9	1.9				ug/L		Standard
|	Ni -1	60	208.7	3.9				ug/L		Standard
|	Ni -2	62	2413.5	1.0				ug/L		Standard
|	Cu	63	3083.0	3.6				ug/L		Standard
|	Cu -1	65	471.0	1.7				ug/L		Standard
|	Zn	66	741.4	1.8				ug/L		Standard
|	Zn -1	67	144.3	6.4				ug/L		Standard
|	Zn -2	68	764.0	3.6				ug/L		Standard
|	As	75	12792.3	0.7				ug/L		Standard
|	As-1	75	-68.2	83.3				ug/L		Standard
|	Se	77	102.7	12.2				ug/L		Standard
|	Se -1	78	12880.8	1.0				ug/L		Standard
|	Br	79	373.3	4.1				ug/L		Standard
|	Se -2	82	27.0	25.9				ug/L		Standard
	Kr	83	21.3	5.4				ug/L		Standard
	Y	89	602615.1	1.8				ug/L		Standard
|	Rh	103	112596.1	1.7				ug/L		Standard
|	Cd	111	208.8	5.3				ug/L		Standard
|	Cd -1	114	17.2	9.3				ug/L		Standard
|	Ho	165	645072.6	1.5				ug/L		Standard
|	Pb	208	648.3	3.1				ug/L		Standard
|	Bi	209	378642.7	2.7				ug/L		Standard
|	Th	232	482278.1	1.5				ug/L		Standard
|	Cr -2	52	241.7	2.4				ug/L		KED
|	Cr -3	53	35.0	10.3				ug/L		KED
|	Ni -3	58	101.9	15.4				ug/L		KED
|	Ni -4	60	46.3	2.5				ug/L		KED
|	Ni -5	62	7.3	47.9				ug/L		KED
|	Cu -2	63	278.3	7.5				ug/L		KED
|	Cu -3	65	116.3	8.1				ug/L		KED
|	Zn -3	66	73.7	23.1				ug/L		KED
|	Zn -4	67	11.0	39.6				ug/L		KED
|	Zn -5	68	47.7	9.9				ug/L		KED
|	As-2	75	1.7	124.9				ug/L		KED
	Y-1	89	56057.1	2.2				ug/L		KED
	Rh-1	103	42835.8	1.2				ug/L		KED
|	Cd -2	111	4.3	53.3				ug/L		KED
|	Cd -3	114	7.0	28.6				ug/L		KED
|>	Sc	45	749257.7	2.0				ug/L		Standard
|>	Ge	72	446706.6	1.5				ug/L		Standard
|>	In	115	446509.1	1.8				ug/L		Standard
|>	Tb	159	663613.5	1.6				ug/L		Standard
|>	Ge-1	72	26773.7	2.3				ug/L		KED
|>	In-1	115	40879.4	0.4				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, June 01, 2024 08:16:37
Report Date/Time: Saturday, June 01, 2024 08:19:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 1.359

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	25320.1	1.6				ug/L	20848	Standard
|	Cr -1	53	3025.3	1.0				ug/L	2436	Standard
|	Ni	58	-5131.8	4.8				ug/L	-7461	Standard
|	Ni -1	60	1134.0	3.9				ug/L	209	Standard
|	Ni -2	62	2653.6	4.8				ug/L	2414	Standard
|	Cu	63	4772.8	1.9				ug/L	3083	Standard
|	Cu -1	65	1177.7	2.3				ug/L	471	Standard
|	Zn	66	793.0	2.3				ug/L	741	Standard
|	Zn -1	67	161.0	16.5				ug/L	144	Standard
|	Zn -2	68	813.4	2.1				ug/L	764	Standard
|	As	75	12936.2	2.1				ug/L	12792	Standard
|	As-1	75	447.4	14.3				ug/L	-68	Standard
|	Se	77	121.0	15.8				ug/L	103	Standard
|	Se -1	78	12625.6	1.5				ug/L	12881	Standard
|	Br	79	379.7	5.0				ug/L	373	Standard
|	Se -2	82	72.3	13.1				ug/L	27	Standard
	Kr	83	23.0	30.4				ug/L	21	Standard
	Y	89	561809.8	1.2				ug/L	602615	Standard
|	Rh	103	107005.5	2.8				ug/L	112596	Standard
|	Cd	111	903.3	2.5				ug/L	209	Standard
|	Cd -1	114	1772.3	1.0				ug/L	17	Standard
|	Ho	165	638082.1	0.8				ug/L	645073	Standard
|	Pb	208	10786.9	1.5				ug/L	648	Standard
|	Bi	209	382768.5	0.2				ug/L	378643	Standard
|	Th	232	483967.8	1.2				ug/L	482278	Standard
|	Cr -2	52	699.7	3.5				ug/L	242	KED
|	Cr -3	53	90.3	9.4				ug/L	35	KED
|	Ni -3	58	599.7	9.2				ug/L	102	KED
|	Ni -4	60	251.7	10.7				ug/L	46	KED
|	Ni -5	62	33.3	11.4				ug/L	7	KED
|	Cu -2	63	656.7	3.0				ug/L	278	KED
|	Cu -3	65	307.7	3.7				ug/L	116	KED
|	Zn -3	66	84.7	7.9				ug/L	74	KED
|	Zn -4	67	17.0	15.6				ug/L	11	KED
|	Zn -5	68	68.3	10.0				ug/L	48	KED
|	As-2	75	41.7	13.2				ug/L	2	KED
	Y-1	89	55549.5	1.0				ug/L	56057	KED
	Rh-1	103	42302.5	1.1				ug/L	42836	KED
|	Cd -2	111	142.0	12.2				ug/L	4	KED
|	Cd -3	114	405.7	2.6				ug/L	7	KED
| >	Sc	45	746772.7	1.8				ug/L	749258	Standard
| >	Ge	72	435903.9	2.2				ug/L	446707	Standard
| >	In	115	434988.9	1.0				ug/L	446509	Standard
| >	Tb	159	655454.7	0.7				ug/L	663614	Standard
| >	Ge-1	72	26691.6	1.4				ug/L	26774	KED
| >	In-1	115	40531.7	0.8				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, June 01, 2024 08:21:27
Report Date/Time: Saturday, June 01, 2024 08:24:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 2.360

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	31272.2	1.4				ug/L	20848	Standard
|	Cr -1	53	3598.1	2.8				ug/L	2436	Standard
|	Ni	58	-1655.0	10.0				ug/L	-7461	Standard
|	Ni -1	60	2391.9	3.1				ug/L	209	Standard
|	Ni -2	62	2778.6	1.0				ug/L	2414	Standard
|	Cu	63	7693.1	1.4				ug/L	3083	Standard
|	Cu -1	65	2528.9	2.2				ug/L	471	Standard
|	Zn	66	1544.4	3.1				ug/L	741	Standard
|	Zn -1	67	282.3	6.3				ug/L	144	Standard
|	Zn -2	68	1390.7	0.6				ug/L	764	Standard
|	As	75	13722.1	0.5				ug/L	12792	Standard
|	As-1	75	1126.0	1.4	**0.5000**	0.013	2.5	ug/L	-68	Standard
|	Se	77	169.0	11.8				ug/L	103	Standard
|	Se -1	78	12873.8	0.3				ug/L	12881	Standard
|	Br	79	379.0	1.7				ug/L	373	Standard
|	Se -2	82	128.0	5.5				ug/L	27	Standard
	Kr	83	29.7	22.4				ug/L	21	Standard
	Y	89	575495.6	2.5				ug/L	602615	Standard
|	Rh	103	108210.2	3.2				ug/L	112596	Standard
|	Cd	111	1749.8	1.7	**0.5000**	0.001	0.2	ug/L	209	Standard
|	Cd -1	114	3933.8	2.6	**0.5000**	0.007	1.4	ug/L	17	Standard
|	Ho	165	646700.3	1.8				ug/L	645073	Standard
|	Pb	208	23413.8	2.5	**0.5000**	0.013	2.6	ug/L	648	Standard
|	Bi	209	384289.5	0.4				ug/L	378643	Standard
|	Th	232	493439.9	0.8				ug/L	482278	Standard
|	Cr -2	52	1306.1	2.1				ug/L	242	KED
|	Cr -3	53	172.3	2.4				ug/L	35	KED
|	Ni -3	58	1316.0	3.3				ug/L	102	KED
|	Ni -4	60	563.0	4.3				ug/L	46	KED
|	Ni -5	62	88.3	18.4				ug/L	7	KED
|	Cu -2	63	1429.7	2.6				ug/L	278	KED
|	Cu -3	65	683.0	0.1				ug/L	116	KED
|	Zn -3	66	154.7	13.6				ug/L	74	KED
|	Zn -4	67	25.3	6.0				ug/L	11	KED
|	Zn -5	68	127.0	2.1				ug/L	48	KED
|	As-2	75	86.3	0.7				ug/L	2	KED
	Y-1	89	56909.5	0.7				ug/L	56057	KED
	Rh-1	103	43463.0	2.0				ug/L	42836	KED
|	Cd -2	111	307.7	5.9	**0.5000**	0.031	6.1	ug/L	4	KED
|	Cd -3	114	789.0	4.4	**0.5000**	0.025	4.9	ug/L	7	KED
|>	Sc	45	754765.6	0.5				ug/L	749258	Standard
|>	Ge	72	439159.0	1.3				ug/L	446707	Standard
|>	In	115	443778.3	1.8				ug/L	446509	Standard
|>	Tb	159	663045.2	0.7				ug/L	663614	Standard
|>	Ge-1	72	27274.7	0.3				ug/L	26774	KED
|>	In-1	115	41173.0	0.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Saturday, June 01, 2024 08:26:18
Report Date/Time: Saturday, June 01, 2024 08:29:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 3.361

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	69108.1	1.2	**2.0000**	0.017	0.9	ug/L	20848	Standard
|	Cr -1	53	7812.5	0.9	**2.0000**	0.041	2.1	ug/L	2436	Standard
|	Ni	58	17523.0	2.5				ug/L	-7461	Standard
|	Ni -1	60	9969.5	1.1	**2.0000**	0.020	1.0	ug/L	209	Standard
|	Ni -2	62	3951.9	0.8	**2.0000**	0.072	3.6	ug/L	2414	Standard
|	Cu	63	24824.9	1.4	**2.0000**	0.014	0.7	ug/L	3083	Standard
|	Cu -1	65	10658.3	2.4	**2.0000**	0.033	1.6	ug/L	471	Standard
|	Zn	66	5873.5	2.2				ug/L	741	Standard
|	Zn -1	67	1017.4	2.2				ug/L	144	Standard
|	Zn -2	68	4366.7	1.5				ug/L	764	Standard
|	As	75	17128.1	2.2	**2.0000**	0.106	5.3	ug/L	12792	Standard
|	As-1	75	4912.0	2.6	**2.0533**	0.042	2.1	ug/L	-68	Standard
|	Se	77	399.0	4.3	**2.0000**	0.105	5.3	ug/L	103	Standard
|	Se -1	78	13317.9	1.9				ug/L	12881	Standard
|	Br	79	367.0	5.6				ug/L	373	Standard
|	Se -2	82	452.0	9.6	**2.0000**	0.203	10.1	ug/L	27	Standard
	Kr	83	28.7	14.5				ug/L	21	Standard
	Y	89	570470.5	1.6				ug/L	602615	Standard
|	Rh	103	109770.2	1.5				ug/L	112596	Standard
|	Cd	111	6816.0	1.7	**2.0826**	0.028	1.4	ug/L	209	Standard
|	Cd -1	114	16744.2	1.4	**2.0766**	0.012	0.6	ug/L	17	Standard
|	Ho	165	652422.7	1.2				ug/L	645073	Standard
|	Pb	208	100848.0	0.7	**2.0871**	0.027	1.3	ug/L	648	Standard
|	Bi	209	386196.4	0.7				ug/L	378643	Standard
|	Th	232	499864.3	0.9				ug/L	482278	Standard
|	Cr -2	52	4815.8	0.6	**2.0000**	0.019	0.9	ug/L	242	KED
|	Cr -3	53	602.0	1.9	**2.0000**	0.047	2.3	ug/L	35	KED
|	Ni -3	58	5499.3	0.8	**2.0000**	0.011	0.6	ug/L	102	KED
|	Ni -4	60	2315.5	2.0	**2.0000**	0.044	2.2	ug/L	46	KED
|	Ni -5	62	373.7	5.0	**2.0000**	0.098	4.9	ug/L	7	KED
|	Cu -2	63	6120.3	1.0	**2.0000**	0.024	1.2	ug/L	278	KED
|	Cu -3	65	2843.6	1.9	**2.0000**	0.034	1.7	ug/L	116	KED
|	Zn -3	66	651.3	5.0				ug/L	74	KED
|	Zn -4	67	103.0	4.9				ug/L	11	KED
|	Zn -5	68	488.0	5.1				ug/L	48	KED
|	As-2	75	440.3	5.0	**2.0000**	0.099	5.0	ug/L	2	KED
	Y-1	89	57993.5	1.2				ug/L	56057	KED
	Rh-1	103	44208.6	0.9				ug/L	42836	KED
|	Cd -2	111	1307.7	5.4	**2.0709**	0.121	5.8	ug/L	4	KED
|	Cd -3	114	3506.1	2.0	**2.1366**	0.037	1.7	ug/L	7	KED
|>	Sc	45	760215.7	0.6				ug/L	749258	Standard
|>	Ge	72	434726.7	0.7				ug/L	446707	Standard
|>	In	115	445146.0	0.9				ug/L	446509	Standard
|>	Tb	159	665909.7	0.5				ug/L	663614	Standard
|>	Ge-1	72	27455.7	0.3				ug/L	26774	KED
|>	In-1	115	42234.3	0.3				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Saturday, June 01, 2024 08:31:09
Report Date/Time: Saturday, June 01, 2024 08:34:29
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 4.362

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	127406.4	1.5	**4.7414**	0.050	1.1	ug/L	20848	Standard
|	Cr -1	53	14276.8	3.8	**4.7358**	0.111	2.3	ug/L	2436	Standard
|	Ni	58	47215.3	2.7	**5.0000**	0.081	1.6	ug/L	-7461	Standard
|	Ni -1	60	22089.1	1.5	**4.7813**	0.039	0.8	ug/L	209	Standard
|	Ni -2	62	5781.5	3.3	**4.7622**	0.124	2.6	ug/L	2414	Standard
|	Cu	63	51826.5	2.4	**4.7654**	0.070	1.5	ug/L	3083	Standard
|	Cu -1	65	22757.4	1.5	**4.7007**	0.037	0.8	ug/L	471	Standard
|	Zn	66	12087.4	3.2	**5.0000**	0.122	2.4	ug/L	741	Standard
|	Zn -1	67	2083.5	3.0	**5.0000**	0.076	1.5	ug/L	144	Standard
|	Zn -2	68	8781.7	1.1	**5.0000**	0.143	2.9	ug/L	764	Standard
|	As	75	22811.8	1.4	**4.8458**	0.030	0.6	ug/L	12792	Standard
|	As-1	75	10757.2	1.1	**4.7626**	0.032	0.7	ug/L	-68	Standard
|	Se	77	749.4	3.2	**4.7289**	0.181	3.8	ug/L	103	Standard
|	Se -1	78	14523.0	1.3	**5.0000**	0.127	2.5	ug/L	12881	Standard
|	Br	79	349.7	6.4				ug/L	373	Standard
|	Se -2	82	990.0	1.0	**4.8250**	0.133	2.8	ug/L	27	Standard
	Kr	83	26.0	23.1				ug/L	21	Standard
	Y	89	558010.5	1.8				ug/L	602615	Standard
|	Rh	103	105003.0	2.5				ug/L	112596	Standard
|	Cd	111	14556.9	1.5	**4.8232**	0.104	2.2	ug/L	209	Standard
|	Cd -1	114	37244.4	1.2	**4.8795**	0.089	1.8	ug/L	17	Standard
|	Ho	165	615946.7	1.5				ug/L	645073	Standard
|	Pb	208	218735.6	0.9	**4.8659**	0.070	1.4	ug/L	648	Standard
|	Bi	209	374341.6	0.4				ug/L	378643	Standard
|	Th	232	478269.6	1.9				ug/L	482278	Standard
|	Cr -2	52	10372.4	2.3	**4.7603**	0.096	2.0	ug/L	242	KED
|	Cr -3	53	1301.1	3.5	**4.7919**	0.168	3.5	ug/L	35	KED
|	Ni -3	58	12273.4	0.3	**4.7852**	0.031	0.6	ug/L	102	KED
|	Ni -4	60	5186.6	2.0	**4.7985**	0.079	1.7	ug/L	46	KED
|	Ni -5	62	771.7	4.0	**4.6182**	0.191	4.1	ug/L	7	KED
|	Cu -2	63	13185.1	0.9	**4.7029**	0.050	1.1	ug/L	278	KED
|	Cu -3	65	6171.7	1.9	**4.7285**	0.106	2.2	ug/L	116	KED
|	Zn -3	66	1363.4	1.0	**5.0000**	0.064	1.3	ug/L	74	KED
|	Zn -4	67	232.0	0.4	**5.0000**	0.004	0.1	ug/L	11	KED
|	Zn -5	68	1022.7	4.6	**5.0000**	0.249	5.0	ug/L	48	KED
|	As-2	75	927.7	2.1	**4.6023**	0.094	2.0	ug/L	2	KED
	Y-1	89	56777.6	0.8				ug/L	56057	KED
	Rh-1	103	42948.5	0.3				ug/L	42836	KED
|	Cd -2	111	2853.3	2.6	**4.8059**	0.066	1.4	ug/L	4	KED
|	Cd -3	114	7754.1	0.8	**4.9442**	0.054	1.1	ug/L	7	KED
|>	Sc	45	747905.8	2.4				ug/L	749258	Standard
|>	Ge	72	424692.1	1.7				ug/L	446707	Standard
|>	In	115	432682.5	1.0				ug/L	446509	Standard
|>	Tb	159	637667.3	0.6				ug/L	663614	Standard
|>	Ge-1	72	27034.2	0.4				ug/L	26774	KED
|>	In-1	115	41360.5	1.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Saturday, June 01, 2024 08:36:00
Report Date/Time: Saturday, June 01, 2024 08:39:20
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 5.363

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	490730.0	1.4	**19.7168**	0.306	1.6	ug/L	20848	Standard
|	Cr -1	53	55593.3	2.4	**19.9126**	0.106	0.5	ug/L	2436	Standard
|	Ni	58	231171.3	2.6	**20.5230**	0.365	1.8	ug/L	-7461	Standard
|	Ni -1	60	96024.8	2.8	**19.7493**	0.223	1.1	ug/L	209	Standard
|	Ni -2	62	16841.3	1.0	**19.1950**	0.515	2.7	ug/L	2414	Standard
|	Cu	63	216161.1	3.0	**19.6152**	0.396	2.0	ug/L	3083	Standard
|	Cu -1	65	98652.2	2.3	**19.5343**	0.234	1.2	ug/L	471	Standard
|	Zn	66	52463.2	1.3	**20.6769**	0.387	1.9	ug/L	741	Standard
|	Zn -1	67	8908.8	2.1	**20.6127**	0.207	1.0	ug/L	144	Standard
|	Zn -2	68	37366.2	2.6	**20.6515**	0.316	1.5	ug/L	764	Standard
|	As	75	59587.8	3.9	**19.9976**	0.287	1.4	ug/L	12792	Standard
|	As-1	75	48158.5	3.6	**20.0193**	0.243	1.2	ug/L	-68	Standard
|	Se	77	3107.0	2.3	**20.2524**	0.351	1.7	ug/L	103	Standard
|	Se -1	78	21872.1	3.4	**19.0208**	0.204	1.1	ug/L	12881	Standard
|	Br	79	444.3	8.2				ug/L	373	Standard
|	Se -2	82	4129.9	1.8	**19.5824**	0.332	1.7	ug/L	27	Standard
	Kr	83	27.3	4.2				ug/L	21	Standard
	Y	89	600195.6	2.5				ug/L	602615	Standard
|	Rh	103	111786.7	1.6				ug/L	112596	Standard
|	Cd	111	62664.1	1.1	**19.7250**	0.107	0.5	ug/L	209	Standard
|	Cd -1	114	160912.1	1.6	**19.7799**	0.101	0.5	ug/L	17	Standard
|	Ho	165	668851.5	0.6				ug/L	645073	Standard
|	Pb	208	958502.2	0.9	**19.8870**	0.167	0.8	ug/L	648	Standard
|	Bi	209	398640.9	1.4				ug/L	378643	Standard
|	Th	232	518846.7	0.2				ug/L	482278	Standard
|	Cr -2	52	43773.3	1.3	**19.5283**	0.360	1.8	ug/L	242	KED
|	Cr -3	53	5436.7	2.0	**19.5613**	0.634	3.2	ug/L	35	KED
|	Ni -3	58	52483.2	2.4	**19.5653**	0.720	3.7	ug/L	102	KED
|	Ni -4	60	22410.2	1.4	**19.7323**	0.531	2.7	ug/L	46	KED
|	Ni -5	62	3342.4	1.2	**19.3407**	0.258	1.3	ug/L	7	KED
|	Cu -2	63	57083.8	1.5	**19.5039**	0.478	2.4	ug/L	278	KED
|	Cu -3	65	26528.3	0.8	**19.5087**	0.356	1.8	ug/L	116	KED
|	Zn -3	66	5790.2	3.6	**20.5121**	1.021	5.0	ug/L	74	KED
|	Zn -4	67	1004.4	6.2	**20.3659**	1.508	7.4	ug/L	11	KED
|	Zn -5	68	4412.0	1.1	**20.5932**	0.322	1.6	ug/L	48	KED
|	As-2	75	4119.3	2.2	**19.3782**	0.338	1.7	ug/L	2	KED
	Y-1	89	61457.3	2.1				ug/L	56057	KED
	Rh-1	103	46153.4	0.4				ug/L	42836	KED
|	Cd -2	111	12532.5	1.3	**19.7696**	0.276	1.4	ug/L	4	KED
|	Cd -3	114	34209.2	0.9	**20.2373**	0.176	0.9	ug/L	7	KED
|>	Sc	45	792951.7	2.8				ug/L	749258	Standard
|>	Ge	72	451428.1	3.0				ug/L	446707	Standard
|>	In	115	465718.8	1.6				ug/L	446509	Standard
|>	Tb	159	688942.7	1.2				ug/L	663614	Standard
|>	Ge-1	72	28790.3	1.3				ug/L	26774	KED
|>	In-1	115	44726.5	0.6				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		
| >	Ge	72		
| >	In	115		
| >	Tb	159		
| >	Ge-1	72		
| >	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Saturday, June 01, 2024 08:40:51
Report Date/Time: Saturday, June 01, 2024 08:44:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 6.364

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	916815.9	0.6	**40.0784**	0.278	0.7	ug/L	20848	Standard
|	Cr -1	53	104721.8	1.0	**40.6158**	0.281	0.7	ug/L	2436	Standard
|	Ni	58	463673.3	1.4	**41.2896**	0.180	0.4	ug/L	-7461	Standard
|	Ni -1	60	184065.6	1.0	**39.6255**	0.228	0.6	ug/L	209	Standard
|	Ni -2	62	29791.4	2.4	**38.7078**	0.472	1.2	ug/L	2414	Standard
|	Cu	63	410657.5	1.4	**39.3402**	0.189	0.5	ug/L	3083	Standard
|	Cu -1	65	187546.5	1.0	**39.1004**	0.214	0.5	ug/L	471	Standard
|	Zn	66	100117.0	2.2	**40.8224**	0.267	0.7	ug/L	741	Standard
|	Zn -1	67	16700.1	1.2	**40.3894**	0.159	0.4	ug/L	144	Standard
|	Zn -2	68	70911.6	2.0	**40.7397**	0.222	0.5	ug/L	764	Standard
|	As	75	102992.5	0.6	**40.3381**	0.434	1.1	ug/L	12792	Standard
|	As-1	75	92137.7	0.1	**39.9406**	0.608	1.5	ug/L	-68	Standard
|	Se	77	5812.2	2.2	**40.0795**	0.291	0.7	ug/L	103	Standard
|	Se -1	78	30656.2	1.8	**40.2305**	0.701	1.7	ug/L	12881	Standard
|	Br	79	449.3	8.2				ug/L	373	Standard
|	Se -2	82	7815.1	0.9	**39.1186**	0.946	2.4	ug/L	27	Standard
	Kr	83	24.0	29.2				ug/L	21	Standard
	Y	89	576263.3	1.6				ug/L	602615	Standard
|	Rh	103	108616.9	2.6				ug/L	112596	Standard
|	Cd	111	122601.6	2.2	**40.2075**	0.159	0.4	ug/L	209	Standard
|	Cd -1	114	313831.8	0.9	**40.1471**	0.557	1.4	ug/L	17	Standard
|	Ho	165	640495.8	2.3				ug/L	645073	Standard
|	Pb	208	1848089.5	1.3	**40.2625**	0.374	0.9	ug/L	648	Standard
|	Bi	209	382247.5	0.2				ug/L	378643	Standard
|	Th	232	492567.6	0.8				ug/L	482278	Standard
|	Cr -2	52	83131.5	0.4	**38.9539**	0.325	0.8	ug/L	242	KED
|	Cr -3	53	10512.9	0.7	**39.5252**	0.658	1.7	ug/L	35	KED
|	Ni -3	58	99077.0	1.2	**38.7636**	0.124	0.3	ug/L	102	KED
|	Ni -4	60	42808.4	1.1	**39.3290**	0.163	0.4	ug/L	46	KED
|	Ni -5	62	6393.4	0.9	**38.8361**	0.344	0.9	ug/L	7	KED
|	Cu -2	63	108322.8	1.3	**38.8235**	0.076	0.2	ug/L	278	KED
|	Cu -3	65	50592.8	1.1	**38.9792**	0.030	0.1	ug/L	116	KED
|	Zn -3	66	10909.2	0.3	**40.2313**	0.343	0.9	ug/L	74	KED
|	Zn -4	67	1851.8	4.0	**39.4552**	1.248	3.2	ug/L	11	KED
|	Zn -5	68	8429.8	2.2	**40.6133**	0.568	1.4	ug/L	48	KED
|	As-2	75	7968.2	0.5	**39.1196**	0.261	0.7	ug/L	2	KED
	Y-1	89	58724.8	1.1				ug/L	56057	KED
	Rh-1	103	43900.4	1.5				ug/L	42836	KED
|	Cd -2	111	24568.1	1.2	**40.6568**	0.516	1.3	ug/L	4	KED
|	Cd -3	114	65447.6	1.1	**40.6350**	0.473	1.2	ug/L	7	KED
| >	Sc	45	744257.1	0.4				ug/L	749258	Standard
| >	Ge	72	433127.2	1.5				ug/L	446707	Standard
| >	In	115	447392.0	2.1				ug/L	446509	Standard
| >	Tb	159	655195.2	0.9				ug/L	663614	Standard
| >	Ge-1	72	27806.7	1.1				ug/L	26774	KED
| >	In-1	115	42450.9	0.1				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Saturday, June 01, 2024 08:45:42
Report Date/Time: Saturday, June 01, 2024 08:49:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Standard 7.365

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	2143662.4	0.3	**104.0806**	0.851	0.8	ug/L	20848	Standard
|	Cr -1	53	230031.3	0.8	**100.2435**	0.542	0.5	ug/L	2436	Standard
|	Ni	58	1031088.2	2.0	**99.8358**	2.432	2.4	ug/L	-7461	Standard
|	Ni -1	60	404546.7	2.3	**96.3788**	2.371	2.5	ug/L	209	Standard
|	Ni -2	62	62384.0	2.9	**94.6094**	2.493	2.6	ug/L	2414	Standard
|	Cu	63	900692.4	2.0	**95.9541**	3.275	3.4	ug/L	3083	Standard
|	Cu -1	65	409090.0	3.1	**94.8383**	2.444	2.6	ug/L	471	Standard
|	Zn	66	220603.3	3.1	**99.2813**	2.142	2.2	ug/L	741	Standard
|	Zn -1	67	36762.3	3.7	**98.5579**	1.066	1.1	ug/L	144	Standard
|	Zn -2	68	155588.5	3.8	**98.9614**	1.349	1.4	ug/L	764	Standard
|	As	75	215737.5	3.1	**99.6709**	1.542	1.5	ug/L	12792	Standard
|	As-1	75	207356.7	3.0	**98.6469**	1.613	1.6	ug/L	-68	Standard
|	Se	77	13454.3	3.7	**101.9148**	1.021	1.0	ug/L	103	Standard
|	Se -1	78	53605.4	2.9	**101.2358**	2.274	2.2	ug/L	12881	Standard
|	Br	79	446.0	9.3				ug/L	373	Standard
|	Se -2	82	17824.8	2.8	**98.3221**	2.647	2.7	ug/L	27	Standard
	Kr	83	30.3	16.9				ug/L	21	Standard
	Y	89	535593.3	2.7				ug/L	602615	Standard
|	Rh	103	100459.1	2.0				ug/L	112596	Standard
|	Cd	111	274635.6	2.6	**98.7182**	0.275	0.3	ug/L	209	Standard
|	Cd -1	114	702898.9	2.5	**98.4900**	0.608	0.6	ug/L	17	Standard
|	Ho	165	589047.4	1.5				ug/L	645073	Standard
|	Pb	208	4264241.7	1.1	**100.7855**	2.372	2.4	ug/L	648	Standard
|	Bi	209	349463.4	2.7				ug/L	378643	Standard
|	Th	232	442545.5	1.8				ug/L	482278	Standard
|	Cr -2	52	181150.4	1.2	**94.5949**	1.694	1.8	ug/L	242	KED
|	Cr -3	53	22641.9	0.5	**94.8338**	0.986	1.0	ug/L	35	KED
|	Ni -3	58	217111.5	0.5	**94.5382**	0.705	0.7	ug/L	102	KED
|	Ni -4	60	93195.0	0.8	**95.1196**	0.493	0.5	ug/L	46	KED
|	Ni -5	62	13972.5	1.2	**94.5008**	0.776	0.8	ug/L	7	KED
|	Cu -2	63	233095.6	0.3	**93.3209**	0.768	0.8	ug/L	278	KED
|	Cu -3	65	109303.9	0.7	**93.9161**	0.430	0.5	ug/L	116	KED
|	Zn -3	66	24493.3	2.2	**99.6127**	1.126	1.1	ug/L	74	KED
|	Zn -4	67	4035.6	1.9	**96.1461**	0.990	1.0	ug/L	11	KED
|	Zn -5	68	18497.3	0.8	**98.6521**	0.339	0.3	ug/L	48	KED
|	As-2	75	17406.3	1.9	**94.8692**	0.864	0.9	ug/L	2	KED
	Y-1	89	53728.2	1.8				ug/L	56057	KED
	Rh-1	103	39590.5	1.4				ug/L	42836	KED
|	Cd -2	111	53921.9	0.9	**99.1840**	0.243	0.2	ug/L	4	KED
|	Cd -3	114	143443.2	0.4	**99.0486**	0.624	0.6	ug/L	7	KED
| >	Sc	45	670665.6	0.8				ug/L	749258	Standard
| >	Ge	72	396076.4	4.4				ug/L	446707	Standard
| >	In	115	410119.0	2.3				ug/L	446509	Standard
| >	Tb	159	603274.7	2.9				ug/L	663614	Standard
| >	Ge-1	72	25418.9	1.1				ug/L	26774	KED
| >	In-1	115	38294.7	0.8				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		
|>	Ge	72		
|>	In	115		
|>	Tb	159		
|>	Ge-1	72		
|>	In-1	115		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, June 01, 2024 08:51:23
Report Date/Time: Saturday, June 01, 2024 08:54:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\QC Std 1.366

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	1088844.3	1.8	**50.4415**	0.597	1.2	ug/L	20848	Standard
|	Cr -1	53	123401.1	2.0	**51.3187**	0.477	0.9	ug/L	2436	Standard
|	Ni	58	538937.1	1.8	**49.9711**	0.587	1.2	ug/L	-7461	Standard
|	Ni -1	60	215458.1	2.8	**48.8951**	0.940	1.9	ug/L	209	Standard
|	Ni -2	62	35058.0	2.7	**49.0581**	0.956	1.9	ug/L	2414	Standard
|	Cu	63	479566.0	2.8	**48.5420**	0.949	2.0	ug/L	3083	Standard
|	Cu -1	65	218012.8	4.1	**48.1356**	1.554	3.2	ug/L	471	Standard
|	Zn	66	118770.9	2.4	**50.7540**	0.784	1.5	ug/L	741	Standard
|	Zn -1	67	19851.5	2.8	**50.5023**	0.996	2.0	ug/L	144	Standard
|	Zn -2	68	84529.5	2.7	**51.0032**	0.937	1.8	ug/L	764	Standard
|	As	75	122538.4	2.2	**51.4156**	0.823	1.6	ug/L	12792	Standard
|	As-1	75	112528.2	2.2	**51.0228**	0.741	1.5	ug/L	-68	Standard
|	Se	77	7248.2	2.5	**52.0131**	1.111	2.1	ug/L	103	Standard
|	Se -1	78	34769.6	2.6	**52.2381**	1.440	2.8	ug/L	12881	Standard
|	Br	79	456.0	6.3				ug/L	373	Standard
|	Se -2	82	9766.7	2.7	**51.2642**	1.196	2.3	ug/L	27	Standard
	Kr	83	33.0	21.9				ug/L	21	Standard
	Y	89	550923.4	2.6				ug/L	602615	Standard
|	Rh	103	103281.8	2.3				ug/L	112596	Standard
|	Cd	111	148584.3	2.7	**51.3000**	0.505	1.0	ug/L	209	Standard
|	Cd -1	114	377181.8	2.7	**50.7977**	0.537	1.1	ug/L	17	Standard
|	Ho	165	610507.7	1.3				ug/L	645073	Standard
|	Pb	208	2194712.9	1.3	**49.8960**	0.612	1.2	ug/L	648	Standard
|	Bi	209	361037.6	1.1				ug/L	378643	Standard
|	Th	232	469911.7	1.0				ug/L	482278	Standard
|	Cr -2	52	96977.4	1.0	**48.9505**	0.630	1.3	ug/L	242	KED
|	Cr -3	53	12249.2	0.4	**49.5778**	0.214	0.4	ug/L	35	KED
|	Ni -3	58	115384.2	1.2	**48.6142**	0.399	0.8	ug/L	102	KED
|	Ni -4	60	50039.8	1.3	**49.4199**	0.428	0.9	ug/L	46	KED
|	Ni -5	62	7481.6	1.5	**48.9492**	0.481	1.0	ug/L	7	KED
|	Cu -2	63	124858.7	1.3	**48.3661**	0.395	0.8	ug/L	278	KED
|	Cu -3	65	58175.2	1.9	**48.3577**	0.687	1.4	ug/L	116	KED
|	Zn -3	66	13033.6	2.2	**51.1050**	0.848	1.7	ug/L	74	KED
|	Zn -4	67	2182.8	1.5	**50.2150**	0.515	1.0	ug/L	11	KED
|	Zn -5	68	9899.1	1.5	**50.9230**	0.754	1.5	ug/L	48	KED
|	As-2	75	9305.7	0.5	**49.1275**	0.479	1.0	ug/L	2	KED
	Y-1	89	55540.8	0.9				ug/L	56057	KED
	Rh-1	103	41275.2	0.4				ug/L	42836	KED
|	Cd -2	111	29396.2	0.4	**50.7732**	0.601	1.2	ug/L	4	KED
|	Cd -3	114	77871.7	0.4	**50.4813**	0.377	0.7	ug/L	7	KED
| >	Sc	45	696752.2	1.0				ug/L	749258	Standard
| >	Ge	72	415390.0	0.9				ug/L	446707	Standard
| >	In	115	426528.4	1.7				ug/L	446509	Standard
| >	Tb	159	626777.4	1.9				ug/L	663614	Standard
| >	Ge-1	72	26256.8	0.5				ug/L	26774	KED
| >	In-1	115	40767.7	0.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	100.883	
|	Cr -1	53	102.637	
|	Ni	58	99.942	
|	Ni -1	60	97.790	
|	Ni -2	62	98.116	
|	Cu	63	97.084	
|	Cu -1	65	96.271	
|	Zn	66	101.508	
|	Zn -1	67	101.005	
|	Zn -2	68	102.006	
|	As	75	102.831	
|	As-1	75	102.046	
|	Se	77	104.026	
|	Se -1	78	104.476	
|	Br	79		
|	Se -2	82	102.528	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	102.600	
|	Cd -1	114	101.595	
|	Ho	165		
|	Pb	208	99.792	
|	Bi	209		
|	Th	232		
|	Cr -2	52	97.901	
|	Cr -3	53	99.156	
|	Ni -3	58	97.228	
|	Ni -4	60	98.840	
|	Ni -5	62	97.898	
|	Cu -2	63	96.732	
|	Cu -3	65	96.715	
|	Zn -3	66	102.210	
|	Zn -4	67	100.430	
|	Zn -5	68	101.846	
|	As-2	75	98.255	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	101.546	
|	Cd -3	114	100.963	
| >	Sc	45		92.992
| >	Ge	72		92.989
| >	In	115		95.525
| >	Tb	159		94.449
| >	Ge-1	72		98.069
| >	In-1	115		99.727

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, June 01, 2024 08:57:03
Report Date/Time: Saturday, June 01, 2024 09:00:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\QC Std 2.367

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	17678.6	0.4	**-0.0375**	0.020	52.5	ug/L	20848	Standard
|	Cr -1	53	1594.4	2.4	**-0.2401**	0.029	12.2	ug/L	2436	Standard
|	Ni	58	-5813.7	1.1	**-0.0304**	0.021	69.0	ug/L	-7461	Standard
|	Ni -1	60	210.7	7.4	**0.0264**	0.004	16.7	ug/L	209	Standard
|	Ni -2	62	3825.5	0.9	**2.2553**	0.110	4.9	ug/L	2414	Standard
|	Cu	63	4245.0	2.6	**0.1806**	0.020	11.3	ug/L	3083	Standard
|	Cu -1	65	460.7	1.7	**0.0608**	0.002	3.6	ug/L	471	Standard
|	Zn	66	722.7	1.8	**-0.0668**	0.004	5.8	ug/L	741	Standard
|	Zn -1	67	128.7	8.3	**-0.1367**	0.026	19.0	ug/L	144	Standard
|	Zn -2	68	749.4	3.3	**-0.0514**	0.006	11.1	ug/L	764	Standard
|	As	75	12154.8	1.9	**0.0883**	0.112	127.3	ug/L	12792	Standard
|	As-1	75	-5.7	1371.9	**0.0048**	0.035	734.5	ug/L	-68	Standard
|	Se	77	81.3	14.3	**-0.0766**	0.082	107.1	ug/L	103	Standard
|	Se -1	78	12202.9	1.4	**0.6444**	0.488	75.7	ug/L	12881	Standard
|	Br	79	434.7	2.2				ug/L	373	Standard
|	Se -2	82	34.7	1.7	**0.0370**	0.007	18.1	ug/L	27	Standard
	Kr	83	29.3	7.9				ug/L	21	Standard
	Y	89	560494.3	3.2				ug/L	602615	Standard
|	Rh	103	103850.5	1.5				ug/L	112596	Standard
|	Cd	111	223.8	8.4	**-0.0265**	0.007	24.5	ug/L	209	Standard
|	Cd -1	114	57.6	14.7	**-0.0240**	0.001	4.7	ug/L	17	Standard
|	Ho	165	609543.9	1.0				ug/L	645073	Standard
|	Pb	208	859.3	5.2	**-0.0118**	0.001	9.2	ug/L	648	Standard
|	Bi	209	365897.5	1.7				ug/L	378643	Standard
|	Th	232	468212.2	1.3				ug/L	482278	Standard
|	Cr -2	52	236.3	4.5	**-0.0296**	0.005	16.4	ug/L	242	KED
|	Cr -3	53	34.0	26.1	**-0.0472**	0.035	73.6	ug/L	35	KED
|	Ni -3	58	106.4	11.6	**-0.0006**	0.005	899.7	ug/L	102	KED
|	Ni -4	60	42.7	14.3	**-0.0026**	0.006	225.3	ug/L	46	KED
|	Ni -5	62	10.7	19.5	**-0.0032**	0.013	406.2	ug/L	7	KED
|	Cu -2	63	245.0	6.3	**0.0469**	0.005	11.7	ug/L	278	KED
|	Cu -3	65	123.0	9.9	**0.0417**	0.011	26.1	ug/L	116	KED
|	Zn -3	66	75.7	15.7	**-0.1417**	0.047	32.9	ug/L	74	KED
|	Zn -4	67	11.0	24.1	**-0.0258**	0.062	240.7	ug/L	11	KED
|	Zn -5	68	56.3	18.2	**-0.0993**	0.053	53.8	ug/L	48	KED
|	As-2	75	4.7	12.4	**0.0714**	0.003	3.9	ug/L	2	KED
	Y-1	89	57246.5	0.7				ug/L	56057	KED
	Rh-1	103	42229.3	1.6				ug/L	42836	KED
|	Cd -2	111	4.0	90.1	**-0.0381**	0.006	16.1	ug/L	4	KED
|	Cd -3	114	11.7	26.2	**-0.0504**	0.002	3.9	ug/L	7	KED
| >	Sc	45	701856.4	2.3				ug/L	749258	Standard
| >	Ge	72	417356.6	2.9				ug/L	446707	Standard
| >	In	115	425350.7	0.5				ug/L	446509	Standard
| >	Tb	159	629367.6	0.7				ug/L	663614	Standard
| >	Ge-1	72	26667.5	0.9				ug/L	26774	KED
| >	In-1	115	41285.1	0.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		93.674
| >	Ge	72		93.430
| >	In	115		95.261
| >	Tb	159		94.839
| >	Ge-1	72		99.603
| >	In-1	115		100.992

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 09:01:54
Report Date/Time: Saturday, June 01, 2024 09:05:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\QC Std 6.368

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	899386.4	2.6	**40.2178**	0.055	0.1	ug/L	20848	Standard
|	Cr -1	53	102221.2	2.1	**41.0359**	0.306	0.7	ug/L	2436	Standard
|	Ni	58	442057.3	1.4	**40.1025**	0.610	1.5	ug/L	-7461	Standard
|	Ni -1	60	178343.7	3.1	**39.4846**	0.083	0.2	ug/L	209	Standard
|	Ni -2	62	29597.0	1.7	**39.8130**	0.520	1.3	ug/L	2414	Standard
|	Cu	63	394764.9	2.1	**38.9466**	0.375	1.0	ug/L	3083	Standard
|	Cu -1	65	182060.0	3.4	**39.2142**	0.277	0.7	ug/L	471	Standard
|	Zn	66	97220.6	3.0	**40.4614**	0.510	1.3	ug/L	741	Standard
|	Zn -1	67	16289.3	2.7	**40.3453**	0.494	1.2	ug/L	144	Standard
|	Zn -2	68	69614.9	1.6	**40.8987**	0.806	2.0	ug/L	764	Standard
|	As	75	101808.0	3.1	**40.6297**	0.205	0.5	ug/L	12792	Standard
|	As-1	75	91745.2	2.7	**40.5914**	0.214	0.5	ug/L	-68	Standard
|	Se	77	5790.8	3.6	**40.3950**	0.705	1.7	ug/L	103	Standard
|	Se -1	78	30240.6	2.1	**40.2484**	1.171	2.9	ug/L	12881	Standard
|	Br	79	466.7	3.5				ug/L	373	Standard
|	Se -2	82	7962.2	1.9	**40.7750**	1.631	4.0	ug/L	27	Standard
	Kr	83	27.3	14.8				ug/L	21	Standard
	Y	89	567250.6	2.0				ug/L	602615	Standard
|	Rh	103	106000.5	1.3				ug/L	112596	Standard
|	Cd	111	122119.5	1.7	**40.6671**	0.077	0.2	ug/L	209	Standard
|	Cd -1	114	308381.7	2.0	**40.0718**	0.251	0.6	ug/L	17	Standard
|	Ho	165	622973.8	1.9				ug/L	645073	Standard
|	Pb	208	1780256.8	1.2	**39.6381**	0.384	1.0	ug/L	648	Standard
|	Bi	209	366702.4	1.4				ug/L	378643	Standard
|	Th	232	470617.3	1.3				ug/L	482278	Standard
|	Cr -2	52	80890.4	0.6	**39.1669**	0.292	0.7	ug/L	242	KED
|	Cr -3	53	10079.9	0.7	**39.1264**	0.203	0.5	ug/L	35	KED
|	Ni -3	58	96985.0	1.0	**39.2209**	0.528	1.3	ug/L	102	KED
|	Ni -4	60	41819.1	0.7	**39.6408**	0.230	0.6	ug/L	46	KED
|	Ni -5	62	6169.3	2.1	**38.7344**	0.745	1.9	ug/L	7	KED
|	Cu -2	63	104314.2	1.0	**38.7829**	0.344	0.9	ug/L	278	KED
|	Cu -3	65	49250.1	1.0	**39.2911**	0.225	0.6	ug/L	116	KED
|	Zn -3	66	10989.6	1.7	**41.2871**	0.802	1.9	ug/L	74	KED
|	Zn -4	67	1805.8	2.2	**39.8217**	0.750	1.9	ug/L	11	KED
|	Zn -5	68	8309.4	0.9	**40.9603**	0.377	0.9	ug/L	48	KED
|	As-2	75	7785.8	1.6	**39.4642**	0.169	0.4	ug/L	2	KED
	Y-1	89	58381.4	1.5				ug/L	56057	KED
	Rh-1	103	42843.1	0.6				ug/L	42836	KED
|	Cd -2	111	24122.4	2.0	**40.4966**	0.938	2.3	ug/L	4	KED
|	Cd -3	114	64651.0	1.1	**40.7333**	0.371	0.9	ug/L	7	KED
|>	Sc	45	718777.1	2.7				ug/L	749258	Standard
|>	Ge	72	425766.7	2.9				ug/L	446707	Standard
|>	In	115	442039.5	1.8				ug/L	446509	Standard
|>	Tb	159	639892.4	2.1				ug/L	663614	Standard
|>	Ge-1	72	27352.2	1.2				ug/L	26774	KED
|>	In-1	115	41937.4	1.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	100.544	
|	Cr -1	53	102.590	
|	Ni	58	100.256	
|	Ni -1	60	98.712	
|	Ni -2	62	99.533	
|	Cu	63	97.366	
|	Cu -1	65	98.036	
|	Zn	66	101.153	
|	Zn -1	67	100.863	
|	Zn -2	68	102.247	
|	As	75	101.574	
|	As-1	75	101.479	
|	Se	77	100.987	
|	Se -1	78	100.621	
|	Br	79		
|	Se -2	82	101.938	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	101.668	
|	Cd -1	114	100.180	
|	Ho	165		
|	Pb	208	99.095	
|	Bi	209		
|	Th	232		
|	Cr -2	52	97.917	
|	Cr -3	53	97.816	
|	Ni -3	58	98.052	
|	Ni -4	60	99.102	
|	Ni -5	62	96.836	
|	Cu -2	63	96.957	
|	Cu -3	65	98.228	
|	Zn -3	66	103.218	
|	Zn -4	67	99.554	
|	Zn -5	68	102.401	
|	As-2	75	98.660	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	101.241	
|	Cd -3	114	101.833	
|>	Sc	45		95.932
|>	Ge	72		95.312
|>	In	115		98.999
|>	Tb	159		96.425
|>	Ge-1	72		102.160
|>	In-1	115		102.588

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 09:07:34
Report Date/Time: Saturday, June 01, 2024 09:10:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\QC Std 7.369

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	464957.3	2.5	**19.5450**	0.281	1.4	ug/L	20848	Standard
|	Cr -1	53	53670.7	2.1	**20.2522**	0.159	0.8	ug/L	2436	Standard
|	Ni	58	223625.1	3.4	**19.7173**	0.405	2.1	ug/L	-7461	Standard
|	Ni -1	60	91909.5	2.2	**19.5166**	0.224	1.1	ug/L	209	Standard
|	Ni -2	62	16882.3	2.1	**20.2257**	0.295	1.5	ug/L	2414	Standard
|	Cu	63	208534.4	2.7	**19.6157**	0.355	1.8	ug/L	3083	Standard
|	Cu -1	65	94378.1	1.7	**19.4893**	0.136	0.7	ug/L	471	Standard
|	Zn	66	50854.4	2.0	**20.1220**	0.167	0.8	ug/L	741	Standard
|	Zn -1	67	8591.6	2.1	**20.1933**	0.575	2.8	ug/L	144	Standard
|	Zn -2	68	36265.0	1.3	**20.1889**	0.379	1.9	ug/L	764	Standard
|	As	75	58614.4	2.2	**19.9692**	0.101	0.5	ug/L	12792	Standard
|	As-1	75	46946.6	2.4	**19.9335**	0.121	0.6	ug/L	-68	Standard
|	Se	77	3028.3	0.9	**19.9461**	0.424	2.1	ug/L	103	Standard
|	Se -1	78	21819.3	1.1	**19.5343**	0.504	2.6	ug/L	12881	Standard
|	Br	79	488.3	6.3				ug/L	373	Standard
|	Se -2	82	4015.6	1.3	**19.6483**	0.358	1.8	ug/L	27	Standard
	Kr	83	31.3	26.8				ug/L	21	Standard
	Y	89	594491.5	1.5				ug/L	602615	Standard
|	Rh	103	110693.9	0.4				ug/L	112596	Standard
|	Cd	111	61593.7	2.0	**20.2937**	0.375	1.8	ug/L	209	Standard
|	Cd -1	114	155274.4	1.9	**19.9978**	0.301	1.5	ug/L	17	Standard
|	Ho	165	633876.6	1.8				ug/L	645073	Standard
|	Pb	208	905559.0	1.8	**19.7366**	0.159	0.8	ug/L	648	Standard
|	Bi	209	375133.0	0.6				ug/L	378643	Standard
|	Th	232	485130.3	1.0				ug/L	482278	Standard
|	Cr -2	52	41487.8	1.0	**19.2513**	0.207	1.1	ug/L	242	KED
|	Cr -3	53	5252.0	0.5	**19.5217**	0.135	0.7	ug/L	35	KED
|	Ni -3	58	49788.9	0.1	**19.3476**	0.094	0.5	ug/L	102	KED
|	Ni -4	60	21587.6	1.3	**19.6640**	0.166	0.8	ug/L	46	KED
|	Ni -5	62	3200.7	1.9	**19.2962**	0.250	1.3	ug/L	7	KED
|	Cu -2	63	54594.1	0.4	**19.5043**	0.055	0.3	ug/L	278	KED
|	Cu -3	65	25619.6	0.5	**19.6345**	0.146	0.7	ug/L	116	KED
|	Zn -3	66	5721.5	2.5	**20.4597**	0.414	2.0	ug/L	74	KED
|	Zn -4	67	944.7	6.6	**19.9011**	1.215	6.1	ug/L	11	KED
|	Zn -5	68	4306.0	1.3	**20.2255**	0.163	0.8	ug/L	48	KED
|	As-2	75	4016.2	1.5	**19.6091**	0.173	0.9	ug/L	2	KED
	Y-1	89	60606.6	0.8				ug/L	56057	KED
	Rh-1	103	43935.5	0.9				ug/L	42836	KED
|	Cd -2	111	12182.9	0.8	**19.9942**	0.380	1.9	ug/L	4	KED
|	Cd -3	114	32878.8	0.8	**20.2451**	0.298	1.5	ug/L	7	KED
| >	Sc	45	747887.9	1.3				ug/L	749258	Standard
| >	Ge	72	443697.5	2.1				ug/L	446707	Standard
| >	In	115	445790.8	3.4				ug/L	446509	Standard
| >	Tb	159	653077.1	1.1				ug/L	663614	Standard
| >	Ge-1	72	28429.9	0.6				ug/L	26774	KED
| >	In-1	115	42849.3	1.1				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	97.725	
|	Cr -1	53	101.261	
|	Ni	58	98.586	
|	Ni -1	60	97.583	
|	Ni -2	62	101.128	
|	Cu	63	98.079	
|	Cu -1	65	97.446	
|	Zn	66	100.610	
|	Zn -1	67	100.967	
|	Zn -2	68	100.945	
|	As	75	99.846	
|	As-1	75	99.667	
|	Se	77	99.730	
|	Se -1	78	97.672	
|	Br	79		
|	Se -2	82	98.241	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	101.468	
|	Cd -1	114	99.989	
|	Ho	165		
|	Pb	208	98.683	
|	Bi	209		
|	Th	232		
|	Cr -2	52	96.256	
|	Cr -3	53	97.608	
|	Ni -3	58	96.738	
|	Ni -4	60	98.320	
|	Ni -5	62	96.481	
|	Cu -2	63	97.521	
|	Cu -3	65	98.173	
|	Zn -3	66	102.298	
|	Zn -4	67	99.506	
|	Zn -5	68	101.128	
|	As-2	75	98.046	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	99.971	
|	Cd -3	114	101.226	
|>	Sc	45		99.817
|>	Ge	72		99.326
|>	In	115		99.839
|>	Tb	159		98.412
|>	Ge-1	72		106.186
|>	In-1	115		104.819

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 09:13:15
Report Date/Time: Saturday, June 01, 2024 09:16:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\QC Std 8.370

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	17880.9	1.5	**-0.0347**	0.007	19.1	ug/L	20848	Standard
|	Cr -1	53	1492.1	1.8	**-0.2883**	0.012	4.0	ug/L	2436	Standard
|	Ni	58	-5713.6	5.1	**-0.0213**	0.015	69.3	ug/L	-7461	Standard
|	Ni -1	60	200.3	3.7	**0.0241**	0.002	6.6	ug/L	209	Standard
|	Ni -2	62	3694.1	0.8	**2.0684**	0.229	11.1	ug/L	2414	Standard
|	Cu	63	4118.6	1.2	**0.1682**	0.015	9.1	ug/L	3083	Standard
|	Cu -1	65	449.3	1.1	**0.0585**	0.004	6.4	ug/L	471	Standard
|	Zn	66	685.7	1.8	**-0.0822**	0.012	14.2	ug/L	741	Standard
|	Zn -1	67	116.3	6.3	**-0.1681**	0.010	6.0	ug/L	144	Standard
|	Zn -2	68	729.7	4.5	**-0.0630**	0.007	11.0	ug/L	764	Standard
|	As	75	11936.5	0.8	**-0.0049**	0.160	3253.7	ug/L	12792	Standard
|	As-1	75	12.6	103.5	**0.0133**	0.006	46.4	ug/L	-68	Standard
|	Se	77	78.7	13.6	**-0.0965**	0.060	62.1	ug/L	103	Standard
|	Se -1	78	11979.0	1.0	**0.1722**	0.718	417.0	ug/L	12881	Standard
|	Br	79	449.3	2.6				ug/L	373	Standard
|	Se -2	82	39.3	23.5	**0.0607**	0.042	68.8	ug/L	27	Standard
	Kr	83	29.3	39.5				ug/L	21	Standard
	Y	89	562678.7	2.2				ug/L	602615	Standard
|	Rh	103	104226.2	1.8				ug/L	112596	Standard
|	Cd	111	243.2	3.3	**-0.0198**	0.005	23.4	ug/L	209	Standard
|	Cd -1	114	25.6	76.7	**-0.0283**	0.003	9.7	ug/L	17	Standard
|	Ho	165	599217.3	0.9				ug/L	645073	Standard
|	Pb	208	654.0	5.2	**-0.0161**	0.001	6.3	ug/L	648	Standard
|	Bi	209	360815.4	1.5				ug/L	378643	Standard
|	Th	232	452027.8	2.1				ug/L	482278	Standard
|	Cr -2	52	263.0	5.2	**-0.0202**	0.006	27.6	ug/L	242	KED
|	Cr -3	53	32.7	23.0	**-0.0561**	0.030	53.8	ug/L	35	KED
|	Ni -3	58	93.6	9.0	**-0.0071**	0.003	47.1	ug/L	102	KED
|	Ni -4	60	46.3	26.6	**-0.0004**	0.011	2608.3	ug/L	46	KED
|	Ni -5	62	7.3	15.7	**-0.0260**	0.008	28.9	ug/L	7	KED
|	Cu -2	63	256.3	8.1	**0.0483**	0.008	17.2	ug/L	278	KED
|	Cu -3	65	131.7	5.2	**0.0455**	0.006	13.7	ug/L	116	KED
|	Zn -3	66	72.0	5.0	**-0.1644**	0.013	8.0	ug/L	74	KED
|	Zn -4	67	10.0	60.0	**-0.0549**	0.134	244.9	ug/L	11	KED
|	Zn -5	68	52.7	9.6	**-0.1262**	0.024	19.2	ug/L	48	KED
|	As-2	75	7.7	49.4	**0.0858**	0.019	22.2	ug/L	2	KED
	Y-1	89	58255.2	0.6				ug/L	56057	KED
	Rh-1	103	42127.7	0.3				ug/L	42836	KED
|	Cd -2	111	1.7	91.7	**-0.0421**	0.003	6.2	ug/L	4	KED
|	Cd -3	114	11.0	15.7	**-0.0508**	0.001	2.3	ug/L	7	KED
|>	Sc	45	707345.1	2.2				ug/L	749258	Standard
|>	Ge	72	416911.8	3.4				ug/L	446707	Standard
|>	In	115	425607.3	2.1				ug/L	446509	Standard
|>	Tb	159	617331.1	1.6				ug/L	663614	Standard
|>	Ge-1	72	27486.1	0.8				ug/L	26774	KED
|>	In-1	115	41116.4	2.0				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		94.406
| >	Ge	72		93.330
| >	In	115		95.319
| >	Tb	159		93.026
| >	Ge-1	72		102.661
| >	In-1	115		100.580

Quantitative Analysis - Summary Report

Sample ID: MB0529F1 2X

Sample Date/Time: Saturday, June 01, 2024 09:22:40
Report Date/Time: Saturday, June 01, 2024 09:26:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\MB0529F1 2X.372

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	18394.8	0.9	**-0.0648**	0.010	16.0	ug/L	20848	Standard
|	Cr -1	53	1529.1	2.0	**-0.3131**	0.016	5.2	ug/L	2436	Standard
|	Ni	58	-1928.7	9.7	**0.3273**	0.015	4.5	ug/L	-7461	Standard
|	Ni -1	60	1733.8	4.1	**0.3656**	0.011	2.9	ug/L	209	Standard
|	Ni -2	62	4099.3	1.5	**2.5881**	0.180	7.0	ug/L	2414	Standard
|	Cu	63	4243.0	4.1	**0.1750**	0.023	13.3	ug/L	3083	Standard
|	Cu -1	65	451.3	5.2	**0.0575**	0.004	7.6	ug/L	471	Standard
|	Zn	66	1847.1	1.4	**0.4053**	0.006	1.4	ug/L	741	Standard
|	Zn -1	67	279.3	3.4	**0.2395**	0.015	6.1	ug/L	144	Standard
|	Zn -2	68	1501.4	3.6	**0.3937**	0.036	9.1	ug/L	764	Standard
|	As	75	11552.3	1.9	**-0.2577**	0.038	14.7	ug/L	12792	Standard
|	As-1	75	-14.3	346.9	**0.0009**	0.022	2587.7	ug/L	-68	Standard
|	Se	77	67.0	5.4	**-0.1865**	0.019	10.1	ug/L	103	Standard
|	Se -1	78	11621.4	1.6	**-1.0080**	0.137	13.6	ug/L	12881	Standard
|	Br	79	434.7	0.4				ug/L	373	Standard
|	Se -2	82	38.7	14.9	**0.0550**	0.027	48.9	ug/L	27	Standard
	Kr	83	27.7	11.0				ug/L	21	Standard
	Y	89	593343.4	2.7				ug/L	602615	Standard
|	Rh	103	108675.5	0.6				ug/L	112596	Standard
|	Cd	111	230.1	5.7	**-0.0281**	0.005	16.2	ug/L	209	Standard
|	Cd -1	114	25.4	70.4	**-0.0285**	0.002	8.0	ug/L	17	Standard
|	Ho	165	618933.0	0.5				ug/L	645073	Standard
|	Pb	208	781.0	0.9	**-0.0139**	0.000	2.6	ug/L	648	Standard
|	Bi	209	369423.6	0.9				ug/L	378643	Standard
|	Th	232	469286.5	0.8				ug/L	482278	Standard
|	Cr -2	52	269.7	6.1	**-0.0195**	0.008	43.3	ug/L	242	KED
|	Cr -3	53	41.0	14.8	**-0.0271**	0.022	82.1	ug/L	35	KED
|	Ni -3	58	1001.3	3.3	**0.3506**	0.011	3.1	ug/L	102	KED
|	Ni -4	60	437.0	6.5	**0.3605**	0.028	7.8	ug/L	46	KED
|	Ni -5	62	55.3	14.6	**0.2674**	0.048	17.9	ug/L	7	KED
|	Cu -2	63	241.3	8.6	**0.0410**	0.007	18.0	ug/L	278	KED
|	Cu -3	65	118.7	1.8	**0.0333**	0.002	6.1	ug/L	116	KED
|	Zn -3	66	212.3	0.3	**0.3500**	0.006	1.6	ug/L	74	KED
|	Zn -4	67	29.3	25.1	**0.3585**	0.158	44.2	ug/L	11	KED
|	Zn -5	68	131.0	1.3	**0.2489**	0.005	2.1	ug/L	48	KED
|	As-2	75	2.0	86.6	**0.0570**	0.009	15.0	ug/L	2	KED
	Y-1	89	61835.2	0.8				ug/L	56057	KED
	Rh-1	103	44520.6	1.8				ug/L	42836	KED
|	Cd -2	111	6.3	32.9	**-0.0346**	0.003	9.8	ug/L	4	KED
|	Cd -3	114	10.3	48.7	**-0.0516**	0.003	5.9	ug/L	7	KED
|>	Sc	45	754955.2	0.7				ug/L	749258	Standard
|>	Ge	72	422546.4	1.6				ug/L	446707	Standard
|>	In	115	446537.9	1.3				ug/L	446509	Standard
|>	Tb	159	641661.5	1.5				ug/L	663614	Standard
|>	Ge-1	72	28038.5	0.5				ug/L	26774	KED
|>	In-1	115	43446.4	1.2				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		100.760
| >	Ge	72		94.591
| >	In	115		100.006
| >	Tb	159		96.692
| >	Ge-1	72		104.724
| >	In-1	115		106.279

Quantitative Analysis - Summary Report

Sample ID: SB0529F1 2X

Sample Date/Time: Saturday, June 01, 2024 09:28:20
Report Date/Time: Saturday, June 01, 2024 09:31:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\SB0529F1 2X.373

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	844081.8	2.2	**36.5838**	0.384	1.1	ug/L	20848	Standard
|	Cr -1	53	96056.9	1.5	**37.3727**	0.240	0.6	ug/L	2436	Standard
|	Ni	58	417382.8	1.7	**37.8831**	0.479	1.3	ug/L	-7461	Standard
|	Ni -1	60	170123.8	1.5	**37.6667**	0.100	0.3	ug/L	209	Standard
|	Ni -2	62	28035.2	1.4	**37.5224**	0.167	0.4	ug/L	2414	Standard
|	Cu	63	373603.2	2.0	**36.8382**	0.221	0.6	ug/L	3083	Standard
|	Cu -1	65	170227.2	0.6	**36.6709**	0.393	1.1	ug/L	471	Standard
|	Zn	66	91501.8	1.2	**38.0607**	0.174	0.5	ug/L	741	Standard
|	Zn -1	67	15771.0	0.8	**39.0489**	0.501	1.3	ug/L	144	Standard
|	Zn -2	68	65544.7	0.8	**38.4700**	0.443	1.2	ug/L	764	Standard
|	As	75	95709.1	2.3	**37.8626**	0.325	0.9	ug/L	12792	Standard
|	As-1	75	85198.6	2.2	**37.6923**	0.244	0.6	ug/L	-68	Standard
|	Se	77	5421.4	3.5	**37.7788**	1.230	3.3	ug/L	103	Standard
|	Se -1	78	29053.2	1.8	**37.5899**	0.313	0.8	ug/L	12881	Standard
|	Br	79	403.7	6.9				ug/L	373	Standard
|	Se -2	82	7318.9	1.6	**37.4477**	0.706	1.9	ug/L	27	Standard
	Kr	83	30.7	5.0				ug/L	21	Standard
	Y	89	584475.1	1.0				ug/L	602615	Standard
|	Rh	103	106777.9	1.3				ug/L	112596	Standard
|	Cd	111	111568.1	1.9	**37.7514**	0.992	2.6	ug/L	209	Standard
|	Cd -1	114	286440.3	1.9	**37.8187**	0.387	1.0	ug/L	17	Standard
|	Ho	165	602080.0	1.6				ug/L	645073	Standard
|	Pb	208	1621515.2	0.9	**36.9869**	0.158	0.4	ug/L	648	Standard
|	Bi	209	357904.3	0.4				ug/L	378643	Standard
|	Th	232	458645.4	0.7				ug/L	482278	Standard
|	Cr -2	52	77832.8	1.3	**36.2112**	0.593	1.6	ug/L	242	KED
|	Cr -3	53	9800.7	1.0	**36.5523**	0.367	1.0	ug/L	35	KED
|	Ni -3	58	93212.1	0.8	**36.2266**	0.454	1.3	ug/L	102	KED
|	Ni -4	60	40441.8	1.4	**36.8435**	0.634	1.7	ug/L	46	KED
|	Ni -5	62	5959.9	1.2	**35.9608**	0.474	1.3	ug/L	7	KED
|	Cu -2	63	100665.1	0.4	**35.9694**	0.356	1.0	ug/L	278	KED
|	Cu -3	65	47398.8	0.3	**36.3414**	0.285	0.8	ug/L	116	KED
|	Zn -3	66	10714.3	0.9	**38.6589**	0.108	0.3	ug/L	74	KED
|	Zn -4	67	1717.4	2.1	**36.3824**	0.957	2.6	ug/L	11	KED
|	Zn -5	68	7986.9	0.8	**37.8121**	0.520	1.4	ug/L	48	KED
|	As-2	75	7479.0	1.4	**36.4417**	0.503	1.4	ug/L	2	KED
	Y-1	89	60333.1	0.7				ug/L	56057	KED
	Rh-1	103	43719.5	0.8				ug/L	42836	KED
|	Cd -2	111	22980.1	1.1	**38.0337**	0.125	0.3	ug/L	4	KED
|	Cd -3	114	60461.7	1.7	**37.5543**	0.280	0.7	ug/L	7	KED
|>	Sc	45	739985.1	1.4				ug/L	749258	Standard
|>	Ge	72	425758.3	1.6				ug/L	446707	Standard
|>	In	115	435085.8	2.6				ug/L	446509	Standard
|>	Tb	159	624512.7	1.1				ug/L	663614	Standard
|>	Ge-1	72	28457.3	0.6				ug/L	26774	KED
|>	In-1	115	42530.2	1.4				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		98.762
| >	Ge	72		95.310
| >	In	115		97.442
| >	Tb	159		94.108
| >	Ge-1	72		106.288
| >	In-1	115		104.038

Quantitative Analysis - Summary Report

Sample ID: 05-353-02I 2X

Sample Date/Time: Saturday, June 01, 2024 09:34:01
Report Date/Time: Saturday, June 01, 2024 09:37:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-02I 2X.374

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	56278.7	1.5	**1.7622**	0.038	2.2	ug/L	20848	Standard
|	Cr -1	53	6958.0	3.5	**2.0067**	0.095	4.7	ug/L	2436	Standard
|	Ni	58	-1075.5	227.7	**0.3915**	0.245	62.7	ug/L	-7461	Standard
|	Ni -1	60	3941.9	2.7	**0.9329**	0.055	5.9	ug/L	209	Standard
|	Ni -2	62	3716.5	11.9	**2.4959**	0.901	36.1	ug/L	2414	Standard
|	Cu	63	7340.6	4.7	**0.5468**	0.060	10.9	ug/L	3083	Standard
|	Cu -1	65	634.0	0.9	**0.1087**	0.006	5.2	ug/L	471	Standard
|	Zn	66	793.4	4.7	**-0.0126**	0.021	169.1	ug/L	741	Standard
|	Zn -1	67	244.0	4.2	**0.2019**	0.031	15.3	ug/L	144	Standard
|	Zn -2	68	1485.1	5.2	**0.4577**	0.038	8.2	ug/L	764	Standard
|	As	75	13048.1	2.5	**0.9224**	0.037	4.0	ug/L	12792	Standard
|	As-1	75	430.4	2.9	**0.2152**	0.001	0.5	ug/L	-68	Standard
|	Se	77	349.0	5.2	**2.0405**	0.227	11.1	ug/L	103	Standard
|	Se -1	78	12755.7	2.5	**3.9179**	0.178	4.6	ug/L	12881	Standard
|	Br	79	13296.2	3.9				ug/L	373	Standard
|	Se -2	82	73.0	3.6	**0.2644**	0.003	1.3	ug/L	27	Standard
	Kr	83	29.7	20.6				ug/L	21	Standard
	Y	89	537112.5	1.8				ug/L	602615	Standard
|	Rh	103	94416.3	1.3				ug/L	112596	Standard
|	Cd	111	262.9	5.5	**-0.0004**	0.008	1704.2	ug/L	209	Standard
|	Cd -1	114	55.3	10.3	**-0.0233**	0.001	3.9	ug/L	17	Standard
|	Ho	165	543303.8	2.0				ug/L	645073	Standard
|	Pb	208	844.7	5.3	**-0.0095**	0.001	13.4	ug/L	648	Standard
|	Bi	209	307684.6	3.4				ug/L	378643	Standard
|	Th	232	414085.7	3.3				ug/L	482278	Standard
|	Cr -2	52	580.7	3.2	**0.1698**	0.008	4.9	ug/L	242	KED
|	Cr -3	53	83.7	1.8	**0.1837**	0.004	2.1	ug/L	35	KED
|	Ni -3	58	1688.8	7.6	**0.7239**	0.060	8.3	ug/L	102	KED
|	Ni -4	60	181.7	2.5	**0.1496**	0.003	2.2	ug/L	46	KED
|	Ni -5	62	26.3	20.9	**0.1144**	0.040	35.3	ug/L	7	KED
|	Cu -2	63	188.3	8.6	**0.0322**	0.007	21.6	ug/L	278	KED
|	Cu -3	65	85.7	9.5	**0.0177**	0.007	38.1	ug/L	116	KED
|	Zn -3	66	71.3	2.1	**-0.1320**	0.008	5.9	ug/L	74	KED
|	Zn -4	67	27.7	7.5	**0.4140**	0.052	12.5	ug/L	11	KED
|	Zn -5	68	91.0	9.6	**0.1220**	0.048	39.4	ug/L	48	KED
|	As-2	75	26.3	5.8	**0.1970**	0.009	4.3	ug/L	2	KED
	Y-1	89	52408.0	0.3				ug/L	56057	KED
	Rh-1	103	35678.8	2.2				ug/L	42836	KED
|	Cd -2	111	5.7	20.4	**-0.0340**	0.002	7.0	ug/L	4	KED
|	Cd -3	114	10.0	36.1	**-0.0507**	0.003	4.9	ug/L	7	KED
|>	Sc	45	703378.4	0.4				ug/L	749258	Standard
|>	Ge	72	390098.6	3.0				ug/L	446707	Standard
|>	In	115	374308.5	2.2				ug/L	446509	Standard
|>	Tb	159	555743.5	0.6				ug/L	663614	Standard
|>	Ge-1	72	24332.0	0.8				ug/L	26774	KED
|>	In-1	115	36701.0	1.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		93.877
| >	Ge	72		87.328
| >	In	115		83.830
| >	Tb	159		83.745
| >	Ge-1	72		90.880
| >	In-1	115		89.779

Quantitative Analysis - Summary Report

Sample ID: 05-353-07I 2X

Sample Date/Time: Saturday, June 01, 2024 09:39:41
Report Date/Time: Saturday, June 01, 2024 09:43:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-07I 2X.375

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	54403.1	1.2	**1.4965**	0.043	2.9	ug/L	20848	Standard
|	Cr -1	53	6975.0	1.6	**1.8092**	0.077	4.2	ug/L	2436	Standard
|	Ni	58	-668.2	46.9	**0.4431**	0.027	6.1	ug/L	-7461	Standard
|	Ni -1	60	4381.7	2.2	**0.9255**	0.014	1.5	ug/L	209	Standard
|	Ni -2	62	1975.5	5.3	**-0.6297**	0.237	37.7	ug/L	2414	Standard
|	Cu	63	5516.4	2.8	**0.2844**	0.002	0.7	ug/L	3083	Standard
|	Cu -1	65	838.7	6.1	**0.1357**	0.006	4.6	ug/L	471	Standard
|	Zn	66	777.7	3.8	**-0.0575**	0.022	38.1	ug/L	741	Standard
|	Zn -1	67	195.0	11.2	**0.0103**	0.042	409.6	ug/L	144	Standard
|	Zn -2	68	1277.7	1.8	**0.2352**	0.012	4.9	ug/L	764	Standard
|	As	75	13513.1	1.6	**0.4421**	0.133	30.2	ug/L	12792	Standard
|	As-1	75	247.7	27.5	**0.1144**	0.030	25.9	ug/L	-68	Standard
|	Se	77	342.0	2.5	**1.7016**	0.100	5.9	ug/L	103	Standard
|	Se -1	78	13399.3	1.2	**2.0243**	0.615	30.4	ug/L	12881	Standard
|	Br	79	24733.1	2.8				ug/L	373	Standard
|	Se -2	82	72.3	6.2	**0.2182**	0.034	15.6	ug/L	27	Standard
	Kr	83	33.7	17.9				ug/L	21	Standard
	Y	89	602064.8	3.1				ug/L	602615	Standard
|	Rh	103	106456.2	1.5				ug/L	112596	Standard
|	Cd	111	229.5	1.9	**-0.0247**	0.000	0.8	ug/L	209	Standard
|	Cd -1	114	21.1	26.6	**-0.0290**	0.001	2.7	ug/L	17	Standard
|	Ho	165	632863.7	2.2				ug/L	645073	Standard
|	Pb	208	765.0	5.1	**-0.0144**	0.001	5.9	ug/L	648	Standard
|	Bi	209	358746.0	2.0				ug/L	378643	Standard
|	Th	232	479142.5	1.3				ug/L	482278	Standard
|	Cr -2	52	493.0	3.4	**0.0984**	0.008	7.8	ug/L	242	KED
|	Cr -3	53	78.7	4.5	**0.1316**	0.014	10.8	ug/L	35	KED
|	Ni -3	58	1208.6	3.1	**0.4572**	0.017	3.7	ug/L	102	KED
|	Ni -4	60	419.7	2.3	**0.3643**	0.007	2.0	ug/L	46	KED
|	Ni -5	62	57.3	19.1	**0.2981**	0.072	24.2	ug/L	7	KED
|	Cu -2	63	312.3	5.3	**0.0726**	0.006	8.9	ug/L	278	KED
|	Cu -3	65	149.0	5.5	**0.0629**	0.006	10.0	ug/L	116	KED
|	Zn -3	66	55.3	7.3	**-0.2209**	0.017	7.6	ug/L	74	KED
|	Zn -4	67	13.7	22.4	**0.0344**	0.068	196.9	ug/L	11	KED
|	Zn -5	68	63.3	26.9	**-0.0637**	0.087	135.9	ug/L	48	KED
|	As-2	75	17.3	17.6	**0.1372**	0.016	11.9	ug/L	2	KED
	Y-1	89	58277.0	1.1				ug/L	56057	KED
	Rh-1	103	39113.8	1.1				ug/L	42836	KED
|	Cd -2	111	5.3	21.7	**-0.0358**	0.002	5.5	ug/L	4	KED
|	Cd -3	114	9.7	23.9	**-0.0517**	0.001	2.8	ug/L	7	KED
| >	Sc	45	756534.9	1.4				ug/L	749258	Standard
| >	Ge	72	436588.4	3.1				ug/L	446707	Standard
| >	In	115	426167.8	1.8				ug/L	446509	Standard
| >	Tb	159	648502.0	1.8				ug/L	663614	Standard
| >	Ge-1	72	26664.9	0.5				ug/L	26774	KED
| >	In-1	115	41070.6	1.6				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		100.971
| >	Ge	72		97.735
| >	In	115		95.444
| >	Tb	159		97.723
| >	Ge-1	72		99.593
| >	In-1	115		100.468

Quantitative Analysis - Summary Report

Sample ID: 05-353-10I 2X

Sample Date/Time: Saturday, June 01, 2024 09:45:21
Report Date/Time: Saturday, June 01, 2024 09:48:40
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-10I 2X.376

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	73330.7	1.0	**2.6662**	0.027	1.0	ug/L	20848	Standard
|	Cr -1	53	17100.2	1.0	**6.4857**	0.019	0.3	ug/L	2436	Standard
|	Ni	58	1961.1	71.8	**0.6828**	0.128	18.7	ug/L	-7461	Standard
|	Ni -1	60	2831.9	5.7	**0.6324**	0.025	3.9	ug/L	209	Standard
|	Ni -2	62	8568.5	36.6	**9.5655**	4.644	48.6	ug/L	2414	Standard
|	Cu	63	20124.4	14.6	**1.8308**	0.280	15.3	ug/L	3083	Standard
|	Cu -1	65	777.7	5.2	**0.1342**	0.006	4.7	ug/L	471	Standard
|	Zn	66	714.4	5.0	**-0.0638**	0.014	21.5	ug/L	741	Standard
|	Zn -1	67	560.0	5.1	**0.9966**	0.056	5.7	ug/L	144	Standard
|	Zn -2	68	2045.5	1.3	**0.7621**	0.014	1.9	ug/L	764	Standard
|	As	75	16392.6	3.7	**2.2113**	0.141	6.4	ug/L	12792	Standard
|	As-1	75	2438.8	6.7	**1.1313**	0.053	4.7	ug/L	-68	Standard
|	Se	77	750.4	5.2	**4.8793**	0.180	3.7	ug/L	103	Standard
|	Se -1	78	14113.0	3.1	**5.6692**	0.436	7.7	ug/L	12881	Standard
|	Br	79	36975.2	4.4				ug/L	373	Standard
|	Se -2	82	83.3	4.2	**0.3018**	0.028	9.2	ug/L	27	Standard
	Kr	83	37.0	20.4				ug/L	21	Standard
	Y	89	584400.8	4.1				ug/L	602615	Standard
|	Rh	103	101725.9	3.7				ug/L	112596	Standard
|	Cd	111	256.6	4.4	**-0.0095**	0.003	31.9	ug/L	209	Standard
|	Cd -1	114	26.9	34.8	**-0.0279**	0.001	5.2	ug/L	17	Standard
|	Ho	165	624377.2	1.8				ug/L	645073	Standard
|	Pb	208	692.0	4.0	**-0.0154**	0.001	3.5	ug/L	648	Standard
|	Bi	209	347179.5	2.3				ug/L	378643	Standard
|	Th	232	476034.3	1.1				ug/L	482278	Standard
|	Cr -2	52	977.7	2.7	**0.3944**	0.022	5.7	ug/L	242	KED
|	Cr -3	53	161.0	3.3	**0.5325**	0.020	3.8	ug/L	35	KED
|	Ni -3	58	2442.3	6.6	**1.0830**	0.091	8.4	ug/L	102	KED
|	Ni -4	60	344.0	3.4	**0.3279**	0.008	2.5	ug/L	46	KED
|	Ni -5	62	48.3	15.5	**0.2745**	0.053	19.5	ug/L	7	KED
|	Cu -2	63	254.0	4.6	**0.0611**	0.003	5.3	ug/L	278	KED
|	Cu -3	65	107.0	14.7	**0.0381**	0.013	33.4	ug/L	116	KED
|	Zn -3	66	55.7	8.1	**-0.1957**	0.016	8.1	ug/L	74	KED
|	Zn -4	67	58.3	9.4	**1.1997**	0.138	11.5	ug/L	11	KED
|	Zn -5	68	189.0	8.5	**0.6841**	0.074	10.8	ug/L	48	KED
|	As-2	75	187.7	9.4	**1.1311**	0.115	10.2	ug/L	2	KED
	Y-1	89	53611.1	0.7				ug/L	56057	KED
	Rh-1	103	34629.3	0.8				ug/L	42836	KED
|	Cd -2	111	4.7	65.5	**-0.0363**	0.006	15.5	ug/L	4	KED
|	Cd -3	114	8.3	36.7	**-0.0522**	0.002	4.0	ug/L	7	KED
|>	Sc	45	681871.2	1.3				ug/L	749258	Standard
|>	Ge	72	408419.4	2.0				ug/L	446707	Standard
|>	In	115	399873.7	2.7				ug/L	446509	Standard
|>	Tb	159	622286.9	2.0				ug/L	663614	Standard
|>	Ge-1	72	23998.1	1.6				ug/L	26774	KED
|>	In-1	115	38267.1	0.2				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		91.006
|>	Ge	72		91.429
|>	In	115		89.556
|>	Tb	159		93.772
|>	Ge-1	72		89.633
|>	In-1	115		93.610

Quantitative Analysis - Summary Report

Sample ID: 05-353-15I 2X

Sample Date/Time: Saturday, June 01, 2024 09:51:00
Report Date/Time: Saturday, June 01, 2024 09:54:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-15I 2X.377

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	47181.5	1.8	**1.4166**	0.022	1.5	ug/L	20848	Standard
|	Cr -1	53	8503.2	0.8	**2.7839**	0.100	3.6	ug/L	2436	Standard
|	Ni	58	-3389.9	23.2	**0.1812**	0.080	44.0	ug/L	-7461	Standard
|	Ni -1	60	1831.5	4.9	**0.4045**	0.008	2.1	ug/L	209	Standard
|	Ni -2	62	8745.0	2.5	**9.9865**	0.822	8.2	ug/L	2414	Standard
|	Cu	63	11812.9	1.2	**0.9829**	0.058	5.9	ug/L	3083	Standard
|	Cu -1	65	661.0	6.7	**0.1090**	0.006	5.9	ug/L	471	Standard
|	Zn	66	676.7	0.6	**-0.0779**	0.011	13.9	ug/L	741	Standard
|	Zn -1	67	288.7	9.8	**0.2926**	0.051	17.4	ug/L	144	Standard
|	Zn -2	68	1398.1	1.9	**0.3672**	0.019	5.1	ug/L	764	Standard
|	As	75	14867.1	1.8	**1.5446**	0.127	8.2	ug/L	12792	Standard
|	As-1	75	981.7	5.0	**0.4640**	0.034	7.4	ug/L	-68	Standard
|	Se	77	256.7	8.2	**1.2464**	0.154	12.4	ug/L	103	Standard
|	Se -1	78	13955.1	2.1	**5.5481**	0.486	8.8	ug/L	12881	Standard
|	Br	79	15180.4	2.2				ug/L	373	Standard
|	Se -2	82	48.0	5.5	**0.1143**	0.017	14.9	ug/L	27	Standard
	Kr	83	34.0	10.6				ug/L	21	Standard
	Y	89	558810.4	0.7				ug/L	602615	Standard
|	Rh	103	100059.5	0.8				ug/L	112596	Standard
|	Cd	111	213.5	4.8	**-0.0239**	0.005	20.8	ug/L	209	Standard
|	Cd -1	114	23.0	17.4	**-0.0284**	0.001	2.2	ug/L	17	Standard
|	Ho	165	585782.3	1.2				ug/L	645073	Standard
|	Pb	208	472.3	6.9	**-0.0199**	0.001	3.4	ug/L	648	Standard
|	Bi	209	338181.8	0.8				ug/L	378643	Standard
|	Th	232	451026.2	0.9				ug/L	482278	Standard
|	Cr -2	52	615.7	4.3	**0.1842**	0.011	6.0	ug/L	242	KED
|	Cr -3	53	87.3	14.9	**0.1944**	0.056	28.8	ug/L	35	KED
|	Ni -3	58	1085.5	4.4	**0.4425**	0.023	5.2	ug/L	102	KED
|	Ni -4	60	141.7	6.1	**0.1049**	0.010	9.3	ug/L	46	KED
|	Ni -5	62	28.0	28.6	**0.1229**	0.054	43.9	ug/L	7	KED
|	Cu -2	63	255.3	8.5	**0.0587**	0.009	16.1	ug/L	278	KED
|	Cu -3	65	117.3	4.7	**0.0448**	0.006	12.9	ug/L	116	KED
|	Zn -3	66	51.0	5.2	**-0.2218**	0.010	4.3	ug/L	74	KED
|	Zn -4	67	25.0	31.2	**0.3399**	0.196	57.8	ug/L	11	KED
|	Zn -5	68	102.3	3.0	**0.1777**	0.022	12.3	ug/L	48	KED
|	As-2	75	76.7	12.3	**0.4774**	0.052	10.8	ug/L	2	KED
	Y-1	89	54134.0	0.3				ug/L	56057	KED
	Rh-1	103	36150.0	0.4				ug/L	42836	KED
|	Cd -2	111	4.3	48.0	**-0.0369**	0.004	10.5	ug/L	4	KED
|	Cd -3	114	7.7	27.2	**-0.0526**	0.001	2.6	ug/L	7	KED
|>	Sc	45	679040.5	2.0				ug/L	749258	Standard
|>	Ge	72	405550.3	3.6				ug/L	446707	Standard
|>	In	115	392490.6	1.5				ug/L	446509	Standard
|>	Tb	159	595261.9	2.7				ug/L	663614	Standard
|>	Ge-1	72	24673.0	0.9				ug/L	26774	KED
|>	In-1	115	38331.2	0.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		90.628
|>	Ge	72		90.787
|>	In	115		87.902
|>	Tb	159		89.700
|>	Ge-1	72		92.154
|>	In-1	115		93.766

Quantitative Analysis - Summary Report

Sample ID: 05-353-02ID 2X

Sample Date/Time: Saturday, June 01, 2024 09:56:42
Report Date/Time: Saturday, June 01, 2024 10:00:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-02ID 2X.378

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	55242.9	1.1	**1.8950**	0.034	1.8	ug/L	20848	Standard
|	Cr -1	53	6741.6	5.7	**2.1173**	0.231	10.9	ug/L	2436	Standard
|	Ni	58	-1793.3	73.1	**0.3284**	0.125	38.0	ug/L	-7461	Standard
|	Ni -1	60	3820.5	1.7	**0.8952**	0.004	0.4	ug/L	209	Standard
|	Ni -2	62	6230.4	3.0	**6.4139**	0.445	6.9	ug/L	2414	Standard
|	Cu	63	9142.3	1.5	**0.7334**	0.029	4.0	ug/L	3083	Standard
|	Cu -1	65	607.7	7.2	**0.1014**	0.012	12.2	ug/L	471	Standard
|	Zn	66	814.7	5.6	**-0.0059**	0.023	399.7	ug/L	741	Standard
|	Zn -1	67	229.7	4.4	**0.1575**	0.026	16.7	ug/L	144	Standard
|	Zn -2	68	1471.1	3.1	**0.4414**	0.036	8.2	ug/L	764	Standard
|	As	75	13539.2	0.9	**1.1126**	0.054	4.9	ug/L	12792	Standard
|	As-1	75	239.7	36.1	**0.1221**	0.041	33.8	ug/L	-68	Standard
|	Se	77	302.7	5.6	**1.6582**	0.102	6.2	ug/L	103	Standard
|	Se -1	78	13411.3	1.0	**5.2546**	0.493	9.4	ug/L	12881	Standard
|	Br	79	14998.2	1.4				ug/L	373	Standard
|	Se -2	82	63.7	21.1	**0.2100**	0.079	37.8	ug/L	27	Standard
	Kr	83	36.0	15.5				ug/L	21	Standard
	Y	89	558168.3	2.2				ug/L	602615	Standard
|	Rh	103	99478.8	1.0				ug/L	112596	Standard
|	Cd	111	226.4	3.1	**-0.0151**	0.001	5.5	ug/L	209	Standard
|	Cd -1	114	30.2	24.1	**-0.0272**	0.001	4.4	ug/L	17	Standard
|	Ho	165	566502.4	1.0				ug/L	645073	Standard
|	Pb	208	695.0	5.2	**-0.0140**	0.001	5.9	ug/L	648	Standard
|	Bi	209	317967.0	2.9				ug/L	378643	Standard
|	Th	232	427701.5	2.7				ug/L	482278	Standard
|	Cr -2	52	587.0	10.0	**0.1875**	0.034	18.2	ug/L	242	KED
|	Cr -3	53	77.7	13.5	**0.1725**	0.048	27.6	ug/L	35	KED
|	Ni -3	58	1571.9	2.7	**0.7023**	0.019	2.8	ug/L	102	KED
|	Ni -4	60	167.7	5.4	**0.1426**	0.010	6.8	ug/L	46	KED
|	Ni -5	62	22.0	7.9	**0.0905**	0.012	13.7	ug/L	7	KED
|	Cu -2	63	164.7	5.5	**0.0253**	0.004	15.3	ug/L	278	KED
|	Cu -3	65	84.3	10.4	**0.0199**	0.008	42.0	ug/L	116	KED
|	Zn -3	66	79.3	3.9	**-0.0828**	0.014	17.5	ug/L	74	KED
|	Zn -4	67	19.0	22.9	**0.2185**	0.113	51.6	ug/L	11	KED
|	Zn -5	68	86.3	19.5	**0.1174**	0.099	84.0	ug/L	48	KED
|	As-2	75	27.0	28.9	**0.2076**	0.046	22.4	ug/L	2	KED
	Y-1	89	51674.0	0.8				ug/L	56057	KED
	Rh-1	103	34420.1	1.3				ug/L	42836	KED
|	Cd -2	111	3.7	56.8	**-0.0378**	0.004	10.7	ug/L	4	KED
|	Cd -3	114	9.7	15.8	**-0.0509**	0.001	2.3	ug/L	7	KED
|>	Sc	45	657294.8	1.9				ug/L	749258	Standard
|>	Ge	72	393197.0	1.7				ug/L	446707	Standard
|>	In	115	375072.0	2.3				ug/L	446509	Standard
|>	Tb	159	575529.2	1.6				ug/L	663614	Standard
|>	Ge-1	72	23298.7	0.2				ug/L	26774	KED
|>	In-1	115	36519.1	1.0				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		87.726
|>	Ge	72		88.021
|>	In	115		84.001
|>	Tb	159		86.727
|>	Ge-1	72		87.021
|>	In-1	115		89.334

Quantitative Analysis - Summary Report

Sample ID: 05-353-02IL 10X

Sample Date/Time: Saturday, June 01, 2024 10:02:22
Report Date/Time: Saturday, June 01, 2024 10:05:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\05-353-02IL 10X.379

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	30451.8	1.2	**0.5740**	0.012	2.0	ug/L	20848	Standard
|	Cr -1	53	3459.8	1.3	**0.5580**	0.029	5.2	ug/L	2436	Standard
|	Ni	58	-4189.9	10.9	**0.1389**	0.039	28.2	ug/L	-7461	Standard
|	Ni -1	60	1472.7	2.5	**0.2937**	0.003	1.0	ug/L	209	Standard
|	Ni -2	62	5002.5	2.1	**3.6116**	0.263	7.3	ug/L	2414	Standard
|	Cu	63	5994.9	1.1	**0.3251**	0.015	4.6	ug/L	3083	Standard
|	Cu -1	65	660.3	0.9	**0.0969**	0.003	3.5	ug/L	471	Standard
|	Zn	66	668.3	7.3	**-0.1056**	0.017	15.8	ug/L	741	Standard
|	Zn -1	67	163.0	2.8	**-0.0712**	0.014	19.4	ug/L	144	Standard
|	Zn -2	68	887.0	5.4	**0.0031**	0.020	653.2	ug/L	764	Standard
|	As	75	13603.3	1.6	**0.4201**	0.061	14.6	ug/L	12792	Standard
|	As-1	75	265.3	26.5	**0.1208**	0.030	24.7	ug/L	-68	Standard
|	Se	77	162.7	4.7	**0.4494**	0.070	15.6	ug/L	103	Standard
|	Se -1	78	13440.3	2.0	**1.8122**	0.389	21.5	ug/L	12881	Standard
|	Br	79	4308.7	3.9				ug/L	373	Standard
|	Se -2	82	60.0	19.6	**0.1523**	0.055	36.1	ug/L	27	Standard
	Kr	83	31.0	22.6				ug/L	21	Standard
	Y	89	610445.1	0.7				ug/L	602615	Standard
|	Rh	103	110852.1	0.4				ug/L	112596	Standard
|	Cd	111	535.6	4.1	**0.0826**	0.007	9.0	ug/L	209	Standard
|	Cd -1	114	778.2	1.2	**0.0739**	0.002	2.5	ug/L	17	Standard
|	Ho	165	642946.0	0.9				ug/L	645073	Standard
|	Pb	208	4805.6	3.0	**0.0736**	0.004	5.0	ug/L	648	Standard
|	Bi	209	375913.2	1.3				ug/L	378643	Standard
|	Th	232	469115.4	1.5				ug/L	482278	Standard
|	Cr -2	52	475.0	6.6	**0.0975**	0.015	15.8	ug/L	242	KED
|	Cr -3	53	61.7	11.0	**0.0723**	0.030	41.7	ug/L	35	KED
|	Ni -3	58	637.4	11.5	**0.2290**	0.031	13.6	ug/L	102	KED
|	Ni -4	60	151.3	5.4	**0.1082**	0.007	6.7	ug/L	46	KED
|	Ni -5	62	16.0	22.5	**0.0347**	0.024	68.2	ug/L	7	KED
|	Cu -2	63	340.3	1.7	**0.0878**	0.003	3.8	ug/L	278	KED
|	Cu -3	65	160.3	7.8	**0.0768**	0.011	14.7	ug/L	116	KED
|	Zn -3	66	85.7	15.2	**-0.0914**	0.051	56.0	ug/L	74	KED
|	Zn -4	67	13.7	29.6	**0.0453**	0.095	209.8	ug/L	11	KED
|	Zn -5	68	55.0	11.4	**-0.0966**	0.032	32.9	ug/L	48	KED
|	As-2	75	29.0	11.9	**0.2031**	0.020	9.7	ug/L	2	KED
	Y-1	89	55846.0	1.4				ug/L	56057	KED
	Rh-1	103	37856.1	1.0				ug/L	42836	KED
|	Cd -2	111	67.7	14.0	**0.0738**	0.019	25.3	ug/L	4	KED
|	Cd -3	114	158.7	10.2	**0.0463**	0.009	19.7	ug/L	7	KED
| >	Sc	45	694892.2	0.7				ug/L	749258	Standard
| >	Ge	72	440963.1	1.6				ug/L	446707	Standard
| >	In	115	423286.7	1.8				ug/L	446509	Standard
| >	Tb	159	653777.7	1.1				ug/L	663614	Standard
| >	Ge-1	72	25775.2	0.8				ug/L	26774	KED
| >	In-1	115	40239.4	1.7				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		92.744
| >	Ge	72		98.714
| >	In	115		94.799
| >	Tb	159		98.518
| >	Ge-1	72		96.271
| >	In-1	115		98.434

Quantitative Analysis - Summary Report

Sample ID: 05-353-02IMS 2X

Sample Date/Time: Saturday, June 01, 2024 10:08:04
Report Date/Time: Saturday, June 01, 2024 10:11:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-353-02IMS 2X.380

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	821512.0	1.6	**36.6679**	0.445	1.2	ug/L	20848	Standard
|	Cr -1	53	94257.9	0.3	**37.7762**	0.554	1.5	ug/L	2436	Standard
|	Ni	58	396302.8	1.8	**34.3748**	0.263	0.8	ug/L	-7461	Standard
|	Ni -1	60	159234.9	0.8	**33.6494**	0.469	1.4	ug/L	209	Standard
|	Ni -2	62	26603.1	2.0	**33.6540**	0.195	0.6	ug/L	2414	Standard
|	Cu	63	351080.1	2.5	**33.0106**	0.266	0.8	ug/L	3083	Standard
|	Cu -1	65	158476.5	2.3	**32.5730**	0.408	1.3	ug/L	471	Standard
|	Zn	66	88873.0	2.0	**35.2511**	0.312	0.9	ug/L	741	Standard
|	Zn -1	67	15077.6	1.6	**35.5861**	0.403	1.1	ug/L	144	Standard
|	Zn -2	68	64249.5	2.5	**35.9501**	0.350	1.0	ug/L	764	Standard
|	As	75	109385.2	1.9	**41.8060**	0.565	1.4	ug/L	12792	Standard
|	As-1	75	97586.9	2.3	**41.2049**	0.626	1.5	ug/L	-68	Standard
|	Se	77	6952.7	1.2	**46.3919**	0.474	1.0	ug/L	103	Standard
|	Se -1	78	34083.3	1.0	**45.3329**	0.802	1.8	ug/L	12881	Standard
|	Br	79	14091.3	3.4				ug/L	373	Standard
|	Se -2	82	8794.7	2.2	**42.9640**	0.784	1.8	ug/L	27	Standard
	Kr	83	32.7	11.6				ug/L	21	Standard
	Y	89	624368.0	1.9				ug/L	602615	Standard
|	Rh	103	109396.6	3.3				ug/L	112596	Standard
|	Cd	111	114078.5	2.2	**39.9440**	0.430	1.1	ug/L	209	Standard
|	Cd -1	114	280925.4	2.5	**38.3806**	0.258	0.7	ug/L	17	Standard
|	Ho	165	648670.6	3.0				ug/L	645073	Standard
|	Pb	208	1680655.5	1.7	**36.4671**	0.255	0.7	ug/L	648	Standard
|	Bi	209	369400.1	2.4				ug/L	378643	Standard
|	Th	232	500141.7	0.4				ug/L	482278	Standard
|	Cr -2	52	68576.9	1.5	**34.3751**	0.156	0.5	ug/L	242	KED
|	Cr -3	53	8704.7	1.8	**34.9824**	0.743	2.1	ug/L	35	KED
|	Ni -3	58	78470.5	1.4	**32.8650**	0.608	1.8	ug/L	102	KED
|	Ni -4	60	33824.3	1.4	**33.2036**	0.260	0.8	ug/L	46	KED
|	Ni -5	62	5035.6	2.2	**32.7353**	0.351	1.1	ug/L	7	KED
|	Cu -2	63	83488.0	2.8	**32.1406**	0.569	1.8	ug/L	278	KED
|	Cu -3	65	39474.1	1.7	**32.6101**	0.314	1.0	ug/L	116	KED
|	Zn -3	66	9522.8	2.4	**37.0097**	0.558	1.5	ug/L	74	KED
|	Zn -4	67	1585.1	1.3	**36.1874**	0.689	1.9	ug/L	11	KED
|	Zn -5	68	7129.4	0.2	**36.3623**	0.393	1.1	ug/L	48	KED
|	As-2	75	7259.8	1.1	**38.1242**	0.622	1.6	ug/L	2	KED
	Y-1	89	57782.6	1.0				ug/L	56057	KED
	Rh-1	103	37681.0	1.2				ug/L	42836	KED
|	Cd -2	111	21209.7	1.4	**36.5454**	0.330	0.9	ug/L	4	KED
|	Cd -3	114	55656.5	0.6	**35.9914**	0.219	0.6	ug/L	7	KED
|>	Sc	45	718647.1	1.5				ug/L	749258	Standard
|>	Ge	72	446110.4	1.7				ug/L	446707	Standard
|>	In	115	420459.4	3.0				ug/L	446509	Standard
|>	Tb	159	656554.4	2.2				ug/L	663614	Standard
|>	Ge-1	72	26405.0	1.1				ug/L	26774	KED
|>	In-1	115	40848.1	0.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		95.915
|>	Ge	72		99.867
|>	In	115		94.166
|>	Tb	159		98.936
|>	Ge-1	72		98.623
|>	In-1	115		99.923

Quantitative Analysis - Summary Report

Sample ID: 05-353-02IMSD 2X

Sample Date/Time: Saturday, June 01, 2024 10:13:44
Report Date/Time: Saturday, June 01, 2024 10:17:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-353-02IMSD 2X.381

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	786245.9	2.1	**36.6578**	0.408	1.1	ug/L	20848	Standard
|	Cr -1	53	90983.2	2.2	**38.0915**	0.395	1.0	ug/L	2436	Standard
|	Ni	58	374831.7	2.9	**34.2348**	0.635	1.9	ug/L	-7461	Standard
|	Ni -1	60	153149.8	2.1	**34.0738**	0.424	1.2	ug/L	209	Standard
|	Ni -2	62	25013.2	1.4	**33.2937**	0.853	2.6	ug/L	2414	Standard
|	Cu	63	335233.3	2.9	**33.1889**	0.061	0.2	ug/L	3083	Standard
|	Cu -1	65	153870.9	2.5	**33.3014**	0.345	1.0	ug/L	471	Standard
|	Zn	66	85529.5	3.6	**35.7166**	0.303	0.8	ug/L	741	Standard
|	Zn -1	67	14793.3	2.5	**36.7744**	0.167	0.5	ug/L	144	Standard
|	Zn -2	68	61060.9	2.4	**35.9773**	0.293	0.8	ug/L	764	Standard
|	As	75	106073.0	1.4	**42.8130**	1.026	2.4	ug/L	12792	Standard
|	As-1	75	93649.4	1.6	**41.6450**	0.918	2.2	ug/L	-68	Standard
|	Se	77	6616.5	3.4	**46.4728**	0.383	0.8	ug/L	103	Standard
|	Se -1	78	33582.4	1.6	**48.0476**	1.083	2.3	ug/L	12881	Standard
|	Br	79	14394.9	3.6				ug/L	373	Standard
|	Se -2	82	8352.1	2.3	**42.9613**	0.556	1.3	ug/L	27	Standard
	Kr	83	29.7	8.5				ug/L	21	Standard
	Y	89	608570.4	2.0				ug/L	602615	Standard
|	Rh	103	106460.7	2.5				ug/L	112596	Standard
|	Cd	111	108611.8	3.5	**39.8954**	0.685	1.7	ug/L	209	Standard
|	Cd -1	114	271930.5	1.8	**38.9865**	0.117	0.3	ug/L	17	Standard
|	Ho	165	629027.1	3.5				ug/L	645073	Standard
|	Pb	208	1621113.4	2.1	**36.5049**	0.296	0.8	ug/L	648	Standard
|	Bi	209	357313.3	1.9				ug/L	378643	Standard
|	Th	232	477210.1	1.7				ug/L	482278	Standard
|	Cr -2	52	65965.6	0.8	**34.9607**	0.880	2.5	ug/L	242	KED
|	Cr -3	53	8139.0	1.2	**34.5733**	0.834	2.4	ug/L	35	KED
|	Ni -3	58	75246.2	1.2	**33.3076**	0.279	0.8	ug/L	102	KED
|	Ni -4	60	32245.0	1.5	**33.4556**	0.155	0.5	ug/L	46	KED
|	Ni -5	62	4803.8	3.4	**33.0036**	0.654	2.0	ug/L	7	KED
|	Cu -2	63	80274.0	2.4	**32.6640**	0.366	1.1	ug/L	278	KED
|	Cu -3	65	37831.7	1.5	**33.0344**	0.308	0.9	ug/L	116	KED
|	Zn -3	66	9029.9	1.0	**37.0979**	0.409	1.1	ug/L	74	KED
|	Zn -4	67	1476.7	1.4	**35.6354**	1.043	2.9	ug/L	11	KED
|	Zn -5	68	6752.3	0.9	**36.4001**	0.485	1.3	ug/L	48	KED
|	As-2	75	7000.7	1.9	**38.8499**	0.060	0.2	ug/L	2	KED
	Y-1	89	55699.1	1.4				ug/L	56057	KED
	Rh-1	103	36331.1	0.7				ug/L	42836	KED
|	Cd -2	111	20212.0	0.4	**35.8008**	0.204	0.6	ug/L	4	KED
|	Cd -3	114	54214.7	1.6	**36.0370**	0.242	0.7	ug/L	7	KED
|>	Sc	45	687951.4	1.7				ug/L	749258	Standard
|>	Ge	72	423745.3	3.0				ug/L	446707	Standard
|>	In	115	400645.3	2.0				ug/L	446509	Standard
|>	Tb	159	632667.6	2.8				ug/L	663614	Standard
|>	Ge-1	72	24984.5	2.0				ug/L	26774	KED
|>	In-1	115	39737.5	1.0				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		91.818
| >	Ge	72		94.860
| >	In	115		89.728
| >	Tb	159		95.337
| >	Ge-1	72		93.317
| >	In-1	115		97.207

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 10:19:25
Report Date/Time: Saturday, June 01, 2024 10:22:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 6.382

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	816144.2	0.7	**41.2479**	0.517	1.3	ug/L	20848	Standard
|	Cr -1	53	96303.5	0.7	**43.7242**	0.207	0.5	ug/L	2436	Standard
|	Ni	58	423020.3	1.5	**37.9444**	0.478	1.3	ug/L	-7461	Standard
|	Ni -1	60	171796.2	1.0	**37.5948**	0.559	1.5	ug/L	209	Standard
|	Ni -2	62	30352.9	3.4	**40.3764**	0.366	0.9	ug/L	2414	Standard
|	Cu	63	383432.3	2.5	**37.3651**	0.240	0.6	ug/L	3083	Standard
|	Cu -1	65	170515.9	0.1	**36.3078**	0.860	2.4	ug/L	471	Standard
|	Zn	66	93960.1	2.1	**38.6277**	0.385	1.0	ug/L	741	Standard
|	Zn -1	67	16139.8	1.4	**39.4980**	0.633	1.6	ug/L	144	Standard
|	Zn -2	68	66727.5	1.2	**38.7075**	0.517	1.3	ug/L	764	Standard
|	As	75	106793.2	3.0	**42.3158**	0.527	1.2	ug/L	12792	Standard
|	As-1	75	95286.6	2.7	**41.6579**	0.494	1.2	ug/L	-68	Standard
|	Se	77	6311.1	4.7	**43.5406**	0.959	2.2	ug/L	103	Standard
|	Se -1	78	32759.5	2.5	**44.9753**	0.067	0.1	ug/L	12881	Standard
|	Br	79	1244.7	2.0				ug/L	373	Standard
|	Se -2	82	8387.8	0.5	**42.4373**	0.883	2.1	ug/L	27	Standard
	Kr	83	29.3	14.2				ug/L	21	Standard
	Y	89	606777.8	1.0				ug/L	602615	Standard
|	Rh	103	111090.4	2.0				ug/L	112596	Standard
|	Cd	111	119974.9	3.2	**43.4263**	0.494	1.1	ug/L	209	Standard
|	Cd -1	114	297130.7	1.8	**41.9706**	0.339	0.8	ug/L	17	Standard
|	Ho	165	623002.5	2.5				ug/L	645073	Standard
|	Pb	208	1790424.3	1.6	**40.4296**	0.231	0.6	ug/L	648	Standard
|	Bi	209	363542.8	1.3				ug/L	378643	Standard
|	Th	232	455453.7	1.2				ug/L	482278	Standard
|	Cr -2	52	73130.4	0.5	**37.1061**	0.570	1.5	ug/L	242	KED
|	Cr -3	53	9244.0	1.9	**37.6045**	1.043	2.8	ug/L	35	KED
|	Ni -3	58	85589.7	0.7	**36.2731**	0.439	1.2	ug/L	102	KED
|	Ni -4	60	36931.3	1.0	**36.6884**	0.512	1.4	ug/L	46	KED
|	Ni -5	62	5476.0	2.1	**36.0291**	0.682	1.9	ug/L	7	KED
|	Cu -2	63	93055.1	1.0	**36.2561**	0.113	0.3	ug/L	278	KED
|	Cu -3	65	43969.2	0.9	**36.7632**	0.582	1.6	ug/L	116	KED
|	Zn -3	66	10353.1	1.2	**40.7584**	0.472	1.2	ug/L	74	KED
|	Zn -4	67	1693.4	2.3	**39.1363**	0.902	2.3	ug/L	11	KED
|	Zn -5	68	7686.4	2.3	**39.6933**	0.491	1.2	ug/L	48	KED
|	As-2	75	7237.8	1.3	**38.4526**	0.213	0.6	ug/L	2	KED
	Y-1	89	56875.7	0.5				ug/L	56057	KED
	Rh-1	103	38786.6	0.8				ug/L	42836	KED
|	Cd -2	111	23082.0	1.1	**39.3529**	0.633	1.6	ug/L	4	KED
|	Cd -3	114	61727.1	0.6	**39.4960**	0.247	0.6	ug/L	7	KED
| >	Sc	45	636327.9	1.1				ug/L	749258	Standard
| >	Ge	72	430866.1	2.5				ug/L	446707	Standard
| >	In	115	406702.1	2.4				ug/L	446509	Standard
| >	Tb	159	630853.2	1.1				ug/L	663614	Standard
| >	Ge-1	72	26097.5	1.1				ug/L	26774	KED
| >	In-1	115	41289.5	0.6				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	103.120	
|	Cr -1	53	109.311	
|	Ni	58	94.861	
|	Ni -1	60	93.987	
|	Ni -2	62	100.941	
|	Cu	63	93.413	
|	Cu -1	65	90.769	
|	Zn	66	96.569	
|	Zn -1	67	98.745	
|	Zn -2	68	96.769	
|	As	75	105.790	
|	As-1	75	104.145	
|	Se	77	108.852	
|	Se -1	78	112.438	
|	Br	79		
|	Se -2	82	106.093	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	108.566	
|	Cd -1	114	104.926	
|	Ho	165		
|	Pb	208	101.074	
|	Bi	209		
|	Th	232		
|	Cr -2	52	92.765	
|	Cr -3	53	94.011	
|	Ni -3	58	90.683	
|	Ni -4	60	91.721	
|	Ni -5	62	90.073	
|	Cu -2	63	90.640	
|	Cu -3	65	91.908	
|	Zn -3	66	101.896	
|	Zn -4	67	97.841	
|	Zn -5	68	99.233	
|	As-2	75	96.132	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	98.382	
|	Cd -3	114	98.740	
|>	Sc	45		84.928
|>	Ge	72		96.454
|>	In	115		91.085
|>	Tb	159		95.063
|>	Ge-1	72		97.474
|>	In-1	115		101.003

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 10:25:06
Report Date/Time: Saturday, June 01, 2024 10:28:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 7.383

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	428234.4	1.0	**20.3573**	0.316	1.6	ug/L	20848	Standard
|	Cr -1	53	48687.2	3.3	**20.7548**	0.204	1.0	ug/L	2436	Standard
|	Ni	58	208891.0	1.6	**18.7527**	0.166	0.9	ug/L	-7461	Standard
|	Ni -1	60	86731.3	3.1	**18.7188**	0.122	0.7	ug/L	209	Standard
|	Ni -2	62	19721.3	0.3	**24.6736**	0.597	2.4	ug/L	2414	Standard
|	Cu	63	198299.4	3.7	**18.9501**	0.320	1.7	ug/L	3083	Standard
|	Cu -1	65	89904.8	2.7	**18.8701**	0.169	0.9	ug/L	471	Standard
|	Zn	66	49418.7	2.2	**19.8737**	0.130	0.7	ug/L	741	Standard
|	Zn -1	67	8473.2	1.8	**20.2435**	0.245	1.2	ug/L	144	Standard
|	Zn -2	68	35344.3	1.5	**19.9979**	0.315	1.6	ug/L	764	Standard
|	As	75	60632.1	1.9	**21.2881**	0.350	1.6	ug/L	12792	Standard
|	As-1	75	48790.7	2.3	**21.0617**	0.276	1.3	ug/L	-68	Standard
|	Se	77	3214.4	1.8	**21.5752**	0.525	2.4	ug/L	103	Standard
|	Se -1	78	22954.8	0.9	**22.7797**	0.980	4.3	ug/L	12881	Standard
|	Br	79	1039.7	4.5				ug/L	373	Standard
|	Se -2	82	4394.7	1.5	**21.8769**	0.417	1.9	ug/L	27	Standard
	Kr	83	27.3	16.5				ug/L	21	Standard
	Y	89	633478.5	1.6				ug/L	602615	Standard
|	Rh	103	115497.4	1.3				ug/L	112596	Standard
|	Cd	111	60682.2	1.0	**21.2822**	0.289	1.4	ug/L	209	Standard
|	Cd -1	114	151461.6	2.5	**20.7568**	0.195	0.9	ug/L	17	Standard
|	Ho	165	637743.1	2.5				ug/L	645073	Standard
|	Pb	208	901528.5	2.9	**19.7215**	0.410	2.1	ug/L	648	Standard
|	Bi	209	373882.9	1.6				ug/L	378643	Standard
|	Th	232	476224.5	1.6				ug/L	482278	Standard
|	Cr -2	52	37309.3	0.6	**18.5148**	0.025	0.1	ug/L	242	KED
|	Cr -3	53	4630.4	1.1	**18.4017**	0.149	0.8	ug/L	35	KED
|	Ni -3	58	43559.8	1.2	**18.1049**	0.119	0.7	ug/L	102	KED
|	Ni -4	60	18805.4	1.0	**18.3233**	0.254	1.4	ug/L	46	KED
|	Ni -5	62	2816.3	2.9	**18.1625**	0.618	3.4	ug/L	7	KED
|	Cu -2	63	47171.8	0.9	**18.0259**	0.251	1.4	ug/L	278	KED
|	Cu -3	65	22293.4	0.4	**18.2739**	0.156	0.9	ug/L	116	KED
|	Zn -3	66	5285.3	1.3	**20.2157**	0.305	1.5	ug/L	74	KED
|	Zn -4	67	900.4	5.9	**20.2999**	1.182	5.8	ug/L	11	KED
|	Zn -5	68	3931.2	1.3	**19.7451**	0.173	0.9	ug/L	48	KED
|	As-2	75	3773.8	0.8	**19.7123**	0.165	0.8	ug/L	2	KED
	Y-1	89	58605.6	0.6				ug/L	56057	KED
	Rh-1	103	40159.4	0.6				ug/L	42836	KED
|	Cd -2	111	11579.0	1.5	**19.3112**	0.329	1.7	ug/L	4	KED
|	Cd -3	114	30887.0	0.8	**19.3259**	0.063	0.3	ug/L	7	KED
|>	Sc	45	662659.9	2.4				ug/L	749258	Standard
|>	Ge	72	436466.8	2.4				ug/L	446707	Standard
|>	In	115	418806.3	2.0				ug/L	446509	Standard
|>	Tb	159	650623.9	0.8				ug/L	663614	Standard
|>	Ge-1	72	26575.0	0.5				ug/L	26774	KED
|>	In-1	115	42159.0	0.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52	101.787	
|	Cr -1	53	103.774	
|	Ni	58	93.764	
|	Ni -1	60	93.594	
|	Ni -2	62	123.368	
|	Cu	63	94.750	
|	Cu -1	65	94.351	
|	Zn	66	99.368	
|	Zn -1	67	101.217	
|	Zn -2	68	99.989	
|	As	75	106.441	
|	As-1	75	105.309	
|	Se	77	107.876	
|	Se -1	78	113.899	
|	Br	79		
|	Se -2	82	109.385	
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111	106.411	
|	Cd -1	114	103.784	
|	Ho	165		
|	Pb	208	98.608	
|	Bi	209		
|	Th	232		
|	Cr -2	52	92.574	
|	Cr -3	53	92.008	
|	Ni -3	58	90.525	
|	Ni -4	60	91.616	
|	Ni -5	62	90.812	
|	Cu -2	63	90.130	
|	Cu -3	65	91.370	
|	Zn -3	66	101.079	
|	Zn -4	67	101.500	
|	Zn -5	68	98.725	
|	As-2	75	98.562	
	Y-1	89		
	Rh-1	103		
|	Cd -2	111	96.556	
|	Cd -3	114	96.629	
|>	Sc	45		88.442
|>	Ge	72		97.708
|>	In	115		93.796
|>	Tb	159		98.043
|>	Ge-1	72		99.258
|>	In-1	115		103.130

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 10:30:46
Report Date/Time: Saturday, June 01, 2024 10:34:07
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 8.384

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	16766.2	1.3	**0.0382**	0.003	8.3	ug/L	20848	Standard
|	Cr -1	53	1396.1	0.7	**-0.2351**	0.005	2.1	ug/L	2436	Standard
|	Ni	58	-5053.4	2.5	**0.0410**	0.023	56.4	ug/L	-7461	Standard
|	Ni -1	60	187.7	2.9	**0.0210**	0.000	0.6	ug/L	209	Standard
|	Ni -2	62	6185.3	2.6	**5.7419**	0.473	8.2	ug/L	2414	Standard
|	Cu	63	5483.4	0.6	**0.3037**	0.018	5.8	ug/L	3083	Standard
|	Cu -1	65	418.3	7.9	**0.0511**	0.007	14.6	ug/L	471	Standard
|	Zn	66	659.7	1.9	**-0.0948**	0.012	12.8	ug/L	741	Standard
|	Zn -1	67	115.0	10.0	**-0.1727**	0.031	17.8	ug/L	144	Standard
|	Zn -2	68	646.0	5.5	**-0.1156**	0.021	17.9	ug/L	764	Standard
|	As	75	12980.9	1.0	**0.4462**	0.113	25.3	ug/L	12792	Standard
|	As-1	75	-25.8	126.5	**-0.0043**	0.015	348.6	ug/L	-68	Standard
|	Se	77	69.0	7.5	**-0.1684**	0.026	15.5	ug/L	103	Standard
|	Se -1	78	13057.0	0.8	**2.4644**	0.614	24.9	ug/L	12881	Standard
|	Br	79	850.4	1.4				ug/L	373	Standard
|	Se -2	82	39.0	32.0	**0.0589**	0.065	110.9	ug/L	27	Standard
	Kr	83	32.0	8.3				ug/L	21	Standard
	Y	89	596114.8	1.1				ug/L	602615	Standard
|	Rh	103	107829.9	2.6				ug/L	112596	Standard
|	Cd	111	248.3	4.2	**-0.0115**	0.002	14.5	ug/L	209	Standard
|	Cd -1	114	25.4	53.7	**-0.0281**	0.002	6.9	ug/L	17	Standard
|	Ho	165	605170.2	3.1				ug/L	645073	Standard
|	Pb	208	653.3	3.8	**-0.0158**	0.001	4.4	ug/L	648	Standard
|	Bi	209	353374.2	1.9				ug/L	378643	Standard
|	Th	232	441156.1	2.8				ug/L	482278	Standard
|	Cr -2	52	203.0	10.4	**-0.0387**	0.011	28.4	ug/L	242	KED
|	Cr -3	53	33.0	21.2	**-0.0412**	0.030	72.5	ug/L	35	KED
|	Ni -3	58	96.2	1.5	**-0.0019**	0.000	22.3	ug/L	102	KED
|	Ni -4	60	35.0	18.7	**-0.0075**	0.007	91.9	ug/L	46	KED
|	Ni -5	62	9.7	36.3	**-0.0050**	0.024	480.2	ug/L	7	KED
|	Cu -2	63	211.7	3.4	**0.0402**	0.002	6.2	ug/L	278	KED
|	Cu -3	65	97.7	3.3	**0.0268**	0.003	10.2	ug/L	116	KED
|	Zn -3	66	70.3	21.3	**-0.1424**	0.061	43.1	ug/L	74	KED
|	Zn -4	67	10.7	35.5	**-0.0159**	0.091	573.4	ug/L	11	KED
|	Zn -5	68	53.3	20.2	**-0.0945**	0.059	62.2	ug/L	48	KED
|	As-2	75	4.0	66.1	**0.0694**	0.015	21.1	ug/L	2	KED
	Y-1	89	55435.7	0.4				ug/L	56057	KED
	Rh-1	103	36962.4	0.9				ug/L	42836	KED
|	Cd -2	111	3.0	100.0	**-0.0396**	0.005	13.5	ug/L	4	KED
|	Cd -3	114	10.3	20.1	**-0.0510**	0.001	2.7	ug/L	7	KED
|>	Sc	45	609590.7	1.3				ug/L	749258	Standard
|>	Ge	72	419072.4	2.7				ug/L	446707	Standard
|>	In	115	395164.8	2.5				ug/L	446509	Standard
|>	Tb	159	606066.5	2.0				ug/L	663614	Standard
|>	Ge-1	72	24819.5	0.5				ug/L	26774	KED
|>	In-1	115	39782.6	0.4				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		81.359
| >	Ge	72		93.814
| >	In	115		88.501
| >	Tb	159		91.328
| >	Ge-1	72		92.701
| >	In-1	115		97.317

Quantitative Analysis - Summary Report

Sample ID: 05-410-01b 5X

Sample Date/Time: Saturday, June 01, 2024 10:36:37
Report Date/Time: Saturday, June 01, 2024 10:39:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-410-01b 5X.385

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	45920.8	3.6	**1.5811**	0.035	2.2	ug/L	20848	Standard
|	Cr -1	53	35888.7	0.8	**16.2676**	0.243	1.5	ug/L	2436	Standard
|	Ni	58	36980.8	4.4	**4.0580**	0.149	3.7	ug/L	-7461	Standard
|	Ni -1	60	16625.0	1.6	**3.9341**	0.054	1.4	ug/L	209	Standard
|	Ni -2	62	21154.0	6.9	**29.7492**	2.207	7.4	ug/L	2414	Standard
|	Cu	63	29880.9	4.4	**2.9361**	0.132	4.5	ug/L	3083	Standard
|	Cu -1	65	910.0	3.6	**0.1702**	0.007	4.3	ug/L	471	Standard
|	Zn	66	6914.7	4.1	**2.7428**	0.121	4.4	ug/L	741	Standard
|	Zn -1	67	1434.1	3.3	**3.3931**	0.133	3.9	ug/L	144	Standard
|	Zn -2	68	5138.6	2.8	**2.7755**	0.091	3.3	ug/L	764	Standard
|	As	75	14232.7	0.9	**1.3957**	0.061	4.4	ug/L	12792	Standard
|	As-1	75	731.5	13.0	**0.3550**	0.046	12.9	ug/L	-68	Standard
|	Se	77	897.0	7.9	**6.1660**	0.527	8.5	ug/L	103	Standard
|	Se -1	78	13992.2	1.2	**6.3760**	0.392	6.1	ug/L	12881	Standard
|	Br	79	149421.9	1.7				ug/L	373	Standard
|	Se -2	82	213.3	7.6	**1.0320**	0.090	8.8	ug/L	27	Standard
	Kr	83	32.3	6.4				ug/L	21	Standard
	Y	89	569738.9	1.1				ug/L	602615	Standard
|	Rh	103	99791.7	1.2				ug/L	112596	Standard
|	Cd	111	347.9	9.3	**0.0331**	0.017	52.4	ug/L	209	Standard
|	Cd -1	114	285.6	5.0	**0.0120**	0.001	8.0	ug/L	17	Standard
|	Ho	165	578189.1	0.9				ug/L	645073	Standard
|	Pb	208	4425.3	1.0	**0.0781**	0.001	1.8	ug/L	648	Standard
|	Bi	209	283916.8	1.8				ug/L	378643	Standard
|	Th	232	441340.7	0.1				ug/L	482278	Standard
|	Cr -2	52	2442.9	0.9	**1.1577**	0.009	0.8	ug/L	242	KED
|	Cr -3	53	359.7	2.6	**1.3590**	0.048	3.6	ug/L	35	KED
|	Ni -3	58	8845.8	1.6	**3.8917**	0.050	1.3	ug/L	102	KED
|	Ni -4	60	3860.5	1.7	**3.9828**	0.066	1.7	ug/L	46	KED
|	Ni -5	62	605.0	5.6	**4.1114**	0.236	5.8	ug/L	7	KED
|	Cu -2	63	383.3	9.5	**0.1102**	0.016	14.2	ug/L	278	KED
|	Cu -3	65	171.0	3.8	**0.0910**	0.007	7.3	ug/L	116	KED
|	Zn -3	66	768.7	2.1	**2.7717**	0.078	2.8	ug/L	74	KED
|	Zn -4	67	129.7	14.6	**2.8887**	0.464	16.1	ug/L	11	KED
|	Zn -5	68	603.3	4.6	**2.9136**	0.165	5.7	ug/L	48	KED
|	As-2	75	35.0	5.7	**0.2420**	0.012	4.8	ug/L	2	KED
	Y-1	89	54421.8	1.4				ug/L	56057	KED
	Rh-1	103	35515.8	0.6				ug/L	42836	KED
|	Cd -2	111	18.3	28.0	**-0.0100**	0.010	98.9	ug/L	4	KED
|	Cd -3	114	68.0	11.1	**-0.0093**	0.005	54.5	ug/L	7	KED
| >	Sc	45	616273.1	2.2				ug/L	749258	Standard
| >	Ge	72	396419.6	0.4				ug/L	446707	Standard
| >	In	115	374850.3	3.2				ug/L	446509	Standard
| >	Tb	159	577422.8	2.1				ug/L	663614	Standard
| >	Ge-1	72	24882.3	0.6				ug/L	26774	KED
| >	In-1	115	37001.7	0.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		82.251
|>	Ge	72		88.743
|>	In	115		83.951
|>	Tb	159		87.012
|>	Ge-1	72		92.936
|>	In-1	115		90.514

Quantitative Analysis - Summary Report

Sample ID: 05-311-01c 10X

Sample Date/Time: Saturday, June 01, 2024 10:42:17
Report Date/Time: Saturday, June 01, 2024 10:45:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-311-01c 10X.386

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	28628.0	1.7	**0.6561**	0.015	2.2	ug/L	20848	Standard
|	Cr -1	53	135888.6	2.7	**63.9323**	1.307	2.0	ug/L	2436	Standard
|	Ni	58	-1208.3	13.2	**0.3837**	0.015	3.9	ug/L	-7461	Standard
|	Ni -1	60	2993.6	1.8	**0.6988**	0.017	2.4	ug/L	209	Standard
|	Ni -2	62	31231.5	3.3	**46.1068**	1.647	3.6	ug/L	2414	Standard
|	Cu	63	101680.7	2.4	**10.7107**	0.277	2.6	ug/L	3083	Standard
|	Cu -1	65	23697.6	1.2	**5.5080**	0.096	1.7	ug/L	471	Standard
|	Zn	66	47912.2	2.1	**21.4759**	0.508	2.4	ug/L	741	Standard
|	Zn -1	67	8392.5	2.4	**22.3629**	0.562	2.5	ug/L	144	Standard
|	Zn -2	68	33300.1	2.3	**20.9915**	0.468	2.2	ug/L	764	Standard
|	As	75	14208.2	2.2	**1.4595**	0.154	10.6	ug/L	12792	Standard
|	As-1	75	1366.0	10.6	**0.6638**	0.073	11.0	ug/L	-68	Standard
|	Se	77	6629.2	5.3	**50.3788**	2.822	5.6	ug/L	103	Standard
|	Se -1	78	14037.2	2.2	**6.8504**	0.727	10.6	ug/L	12881	Standard
|	Br	79	444647.3	3.8				ug/L	373	Standard
|	Se -2	82	489.7	6.5	**2.5864**	0.192	7.4	ug/L	27	Standard
	Kr	83	77.0	4.7				ug/L	21	Standard
	Y	89	546013.4	0.5				ug/L	602615	Standard
|	Rh	103	94289.5	0.3				ug/L	112596	Standard
|	Cd	111	292.7	10.6	**0.0126**	0.012	97.0	ug/L	209	Standard
|	Cd -1	114	296.9	4.8	**0.0144**	0.002	13.8	ug/L	17	Standard
|	Ho	165	553458.4	1.0				ug/L	645073	Standard
|	Pb	208	1148.4	0.7	**-0.0024**	0.000	16.9	ug/L	648	Standard
|	Bi	209	304394.7	1.1				ug/L	378643	Standard
|	Th	232	333189.2	6.9				ug/L	482278	Standard
|	Cr -2	52	330.0	2.2	**0.0383**	0.003	8.1	ug/L	242	KED
|	Cr -3	53	230.3	7.0	**0.8573**	0.071	8.3	ug/L	35	KED
|	Ni -3	58	1174.8	1.6	**0.5062**	0.012	2.3	ug/L	102	KED
|	Ni -4	60	508.7	2.1	**0.5149**	0.011	2.1	ug/L	46	KED
|	Ni -5	62	81.3	7.0	**0.5206**	0.042	8.0	ug/L	7	KED
|	Cu -2	63	13035.9	1.6	**5.5733**	0.059	1.1	ug/L	278	KED
|	Cu -3	65	6133.3	1.5	**5.6164**	0.056	1.0	ug/L	116	KED
|	Zn -3	66	5420.0	1.6	**23.3964**	0.381	1.6	ug/L	74	KED
|	Zn -4	67	817.4	3.4	**20.7432**	0.595	2.9	ug/L	11	KED
|	Zn -5	68	3911.9	1.1	**22.1580**	0.273	1.2	ug/L	48	KED
|	As-2	75	65.7	10.7	**0.4324**	0.043	10.0	ug/L	2	KED
	Y-1	89	51507.7	0.4				ug/L	56057	KED
	Rh-1	103	33333.8	1.1				ug/L	42836	KED
|	Cd -2	111	24.3	28.0	**0.0026**	0.013	489.8	ug/L	4	KED
|	Cd -3	114	66.3	11.7	**-0.0091**	0.006	67.3	ug/L	7	KED
|>	Sc	45	617987.7	0.8				ug/L	749258	Standard
|>	Ge	72	392133.5	0.5				ug/L	446707	Standard
|>	In	115	369737.3	0.5				ug/L	446509	Standard
|>	Tb	159	568278.2	0.7				ug/L	663614	Standard
|>	Ge-1	72	23615.2	0.6				ug/L	26774	KED
|>	In-1	115	36018.8	0.9				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		82.480
| >	Ge	72		87.783
| >	In	115		82.806
| >	Tb	159		85.634
| >	Ge-1	72		88.203
| >	In-1	115		88.110

Quantitative Analysis - Summary Report

Sample ID: 05-311-02c 10X

Sample Date/Time: Saturday, June 01, 2024 10:47:57
Report Date/Time: Saturday, June 01, 2024 10:51:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-311-02c 10X.387

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	44472.8	2.3	**1.5562**	0.029	1.9	ug/L	20848	Standard
|	Cr -1	53	421614.1	2.5	**205.2451**	2.459	1.2	ug/L	2436	Standard
|	Ni	58	-4016.3	7.4	**0.0596**	0.034	56.9	ug/L	-7461	Standard
|	Ni -1	60	3780.5	4.2	**1.0066**	0.038	3.8	ug/L	209	Standard
|	Ni -2	62	133529.7	7.4	**236.0103**	16.216	6.9	ug/L	2414	Standard
|	Cu	63	235870.2	5.8	**28.4867**	1.502	5.3	ug/L	3083	Standard
|	Cu -1	65	2693.3	2.9	**0.6722**	0.016	2.4	ug/L	471	Standard
|	Zn	66	3941.2	5.5	**1.6553**	0.103	6.2	ug/L	741	Standard
|	Zn -1	67	4202.0	3.1	**12.4553**	0.384	3.1	ug/L	144	Standard
|	Zn -2	68	2426.9	2.0	**1.2652**	0.034	2.7	ug/L	764	Standard
|	As	75	17560.8	5.3	**4.2365**	0.447	10.6	ug/L	12792	Standard
|	As-1	75	5532.3	11.1	**3.0100**	0.314	10.4	ug/L	-68	Standard
|	Se	77	28771.6	1.9	**249.7508**	3.571	1.4	ug/L	103	Standard
|	Se -1	78	16605.3	2.8	**18.2884**	0.948	5.2	ug/L	12881	Standard
|	Br	79	1760089.5	2.6				ug/L	373	Standard
|	Se -2	82	1820.4	2.9	**11.3305**	0.287	2.5	ug/L	27	Standard
	Kr	83	944.4	11.2				ug/L	21	Standard
	Y	89	460111.1	1.9				ug/L	602615	Standard
|	Rh	103	78637.5	1.2				ug/L	112596	Standard
|	Cd	111	223.0	14.4	**-0.0045**	0.015	342.0	ug/L	209	Standard
|	Cd -1	114	166.9	2.2	**-0.0027**	0.001	30.8	ug/L	17	Standard
|	Ho	165	473175.0	1.7				ug/L	645073	Standard
|	Pb	208	975.3	0.3	**-0.0027**	0.000	12.9	ug/L	648	Standard
|	Bi	209	256900.4	0.7				ug/L	378643	Standard
|	Th	232	355618.9	0.6				ug/L	482278	Standard
|	Cr -2	52	357.3	0.7	**0.0710**	0.002	2.4	ug/L	242	KED
|	Cr -3	53	623.7	1.1	**2.8752**	0.042	1.5	ug/L	35	KED
|	Ni -3	58	449.9	2.3	**0.1843**	0.005	2.5	ug/L	102	KED
|	Ni -4	60	212.3	1.2	**0.2092**	0.001	0.6	ug/L	46	KED
|	Ni -5	62	49.7	7.6	**0.3208**	0.029	9.1	ug/L	7	KED
|	Cu -2	63	734.7	6.9	**0.2971**	0.021	7.2	ug/L	278	KED
|	Cu -3	65	344.3	6.6	**0.2867**	0.022	7.7	ug/L	116	KED
|	Zn -3	66	309.0	3.4	**1.0388**	0.058	5.5	ug/L	74	KED
|	Zn -4	67	56.3	10.8	**1.2958**	0.164	12.7	ug/L	11	KED
|	Zn -5	68	237.0	6.5	**1.0954**	0.086	7.8	ug/L	48	KED
|	As-2	75	47.3	13.6	**0.3485**	0.042	12.0	ug/L	2	KED
	Y-1	89	48699.2	1.3				ug/L	56057	KED
	Rh-1	103	31040.4	1.5				ug/L	42836	KED
|	Cd -2	111	13.0	20.4	**-0.0165**	0.006	33.8	ug/L	4	KED
|	Cd -3	114	38.3	18.9	**-0.0264**	0.006	23.8	ug/L	7	KED
|>	Sc	45	603085.9	1.3				ug/L	749258	Standard
|>	Ge	72	346865.7	0.7				ug/L	446707	Standard
|>	In	115	330309.5	1.0				ug/L	446509	Standard
|>	Tb	159	487657.1	1.2				ug/L	663614	Standard
|>	Ge-1	72	21753.6	0.8				ug/L	26774	KED
|>	In-1	115	32211.4	1.2				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		80.491
| >	Ge	72		77.650
| >	In	115		73.976
| >	Tb	159		73.485
| >	Ge-1	72		81.250
| >	In-1	115		78.796

Quantitative Analysis - Summary Report

Sample ID: 05-311-04d 10X

Sample Date/Time: Saturday, June 01, 2024 10:53:37
Report Date/Time: Saturday, June 01, 2024 10:56:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-311-04d 10X.388

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	44825.9	0.5	**1.6347**	0.019	1.1	ug/L	20848	Standard
|	Cr -1	53	411331.8	1.6	**205.0916**	1.500	0.7	ug/L	2436	Standard
|	Ni	58	-5158.5	3.4	**-0.0917**	0.008	8.2	ug/L	-7461	Standard
|	Ni -1	60	3591.8	1.5	**1.0002**	0.010	1.0	ug/L	209	Standard
|	Ni -2	62	94846.0	6.4	**174.6808**	15.005	8.6	ug/L	2414	Standard
|	Cu	63	198506.7	0.2	**25.0550**	0.607	2.4	ug/L	3083	Standard
|	Cu -1	65	4056.9	0.6	**1.0827**	0.026	2.4	ug/L	471	Standard
|	Zn	66	5740.2	0.1	**2.7194**	0.068	2.5	ug/L	741	Standard
|	Zn -1	67	4351.7	2.3	**13.5282**	0.077	0.6	ug/L	144	Standard
|	Zn -2	68	3264.4	2.5	**1.9856**	0.042	2.1	ug/L	764	Standard
|	As	75	18258.2	5.9	**5.0858**	0.384	7.5	ug/L	12792	Standard
|	As-1	75	6022.4	17.4	**3.4193**	0.514	15.0	ug/L	-68	Standard
|	Se	77	27695.2	2.4	**251.4235**	2.508	1.0	ug/L	103	Standard
|	Se -1	78	17168.3	0.7	**21.9910**	1.046	4.8	ug/L	12881	Standard
|	Br	79	1809755.1	3.7				ug/L	373	Standard
|	Se -2	82	1960.8	0.2	**12.7861**	0.313	2.4	ug/L	27	Standard
	Kr	83	700.7	5.3				ug/L	21	Standard
	Y	89	444862.9	1.1				ug/L	602615	Standard
|	Rh	103	77108.5	0.7				ug/L	112596	Standard
|	Cd	111	195.9	5.3	**-0.0141**	0.004	27.3	ug/L	209	Standard
|	Cd -1	114	154.9	7.0	**-0.0040**	0.002	46.1	ug/L	17	Standard
|	Ho	165	454150.8	0.6				ug/L	645073	Standard
|	Pb	208	1038.0	2.4	**0.0002**	0.000	245.5	ug/L	648	Standard
|	Bi	209	248763.9	0.4				ug/L	378643	Standard
|	Th	232	334575.2	1.6				ug/L	482278	Standard
|	Cr -2	52	334.0	3.2	**0.0568**	0.010	17.1	ug/L	242	KED
|	Cr -3	53	616.7	2.9	**2.8414**	0.095	3.4	ug/L	35	KED
|	Ni -3	58	297.8	9.3	**0.1068**	0.013	11.8	ug/L	102	KED
|	Ni -4	60	149.3	11.8	**0.1341**	0.022	16.1	ug/L	46	KED
|	Ni -5	62	35.3	26.3	**0.2080**	0.077	36.8	ug/L	7	KED
|	Cu -2	63	1385.7	0.6	**0.6021**	0.010	1.7	ug/L	278	KED
|	Cu -3	65	661.3	3.6	**0.6055**	0.028	4.7	ug/L	116	KED
|	Zn -3	66	458.3	2.2	**1.7517**	0.033	1.9	ug/L	74	KED
|	Zn -4	67	81.0	6.9	**1.9842**	0.126	6.3	ug/L	11	KED
|	Zn -5	68	375.0	2.9	**1.9602**	0.094	4.8	ug/L	48	KED
|	As-2	75	47.3	10.8	**0.3488**	0.036	10.2	ug/L	2	KED
	Y-1	89	47984.1	0.8				ug/L	56057	KED
	Rh-1	103	30494.5	1.2				ug/L	42836	KED
|	Cd -2	111	12.0	8.3	**-0.0182**	0.002	13.1	ug/L	4	KED
|	Cd -3	114	31.3	9.8	**-0.0317**	0.002	7.6	ug/L	7	KED
| >	Sc	45	588857.8	1.2				ug/L	749258	Standard
| >	Ge	72	331692.8	2.3				ug/L	446707	Standard
| >	In	115	320761.8	1.2				ug/L	446509	Standard
| >	Tb	159	471212.1	1.0				ug/L	663614	Standard
| >	Ge-1	72	21751.2	1.6				ug/L	26774	KED
| >	In-1	115	31640.8	0.6				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		78.592
| >	Ge	72		74.253
| >	In	115		71.838
| >	Tb	159		71.007
| >	Ge-1	72		81.241
| >	In-1	115		77.400

Quantitative Analysis - Summary Report

Sample ID: 05-311-05d 10X

Sample Date/Time: Saturday, June 01, 2024 10:59:17
Report Date/Time: Saturday, June 01, 2024 11:02:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-311-05d 10X.389

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	43793.7	0.6	**1.4885**	0.007	0.5	ug/L	20848	Standard
|	Cr -1	53	394217.1	0.8	**189.3719**	1.798	0.9	ug/L	2436	Standard
|	Ni	58	-3357.2	6.5	**0.1154**	0.035	30.7	ug/L	-7461	Standard
|	Ni -1	60	4001.9	3.1	**1.1151**	0.050	4.5	ug/L	209	Standard
|	Ni -2	62	123358.9	7.9	**227.3168**	12.900	5.7	ug/L	2414	Standard
|	Cu	63	242124.9	6.3	**30.5259**	1.175	3.9	ug/L	3083	Standard
|	Cu -1	65	4475.4	2.7	**1.1969**	0.064	5.3	ug/L	471	Standard
|	Zn	66	6733.3	4.5	**3.2514**	0.261	8.0	ug/L	741	Standard
|	Zn -1	67	4258.3	1.8	**13.2115**	0.593	4.5	ug/L	144	Standard
|	Zn -2	68	3515.1	1.3	**2.1724**	0.048	2.2	ug/L	764	Standard
|	As	75	22652.6	2.1	**7.6300**	0.431	5.6	ug/L	12792	Standard
|	As-1	75	6855.9	13.1	**3.9029**	0.616	15.8	ug/L	-68	Standard
|	Se	77	26462.2	0.5	**239.8236**	5.227	2.2	ug/L	103	Standard
|	Se -1	78	21224.4	3.5	**33.4384**	0.663	2.0	ug/L	12881	Standard
|	Br	79	1828135.7	3.3				ug/L	373	Standard
|	Se -2	82	2161.2	2.6	**14.0878**	0.752	5.3	ug/L	27	Standard
	Kr	83	709.7	7.4				ug/L	21	Standard
	Y	89	447010.2	1.9				ug/L	602615	Standard
|	Rh	103	77910.0	3.3				ug/L	112596	Standard
|	Cd	111	197.7	5.0	**-0.0138**	0.006	43.5	ug/L	209	Standard
|	Cd -1	114	149.4	9.5	**-0.0052**	0.003	51.9	ug/L	17	Standard
|	Ho	165	450189.1	1.2				ug/L	645073	Standard
|	Pb	208	754.0	4.9	**-0.0076**	0.001	13.0	ug/L	648	Standard
|	Bi	209	241588.2	1.3				ug/L	378643	Standard
|	Th	232	328515.0	0.2				ug/L	482278	Standard
|	Cr -2	52	311.7	5.5	**0.0356**	0.012	34.6	ug/L	242	KED
|	Cr -3	53	540.3	7.5	**2.3626**	0.213	9.0	ug/L	35	KED
|	Ni -3	58	684.7	4.4	**0.2899**	0.013	4.4	ug/L	102	KED
|	Ni -4	60	297.7	4.6	**0.2970**	0.017	5.7	ug/L	46	KED
|	Ni -5	62	70.0	12.2	**0.4602**	0.071	15.4	ug/L	7	KED
|	Cu -2	63	1499.1	2.4	**0.6271**	0.013	2.0	ug/L	278	KED
|	Cu -3	65	701.7	2.9	**0.6178**	0.022	3.5	ug/L	116	KED
|	Zn -3	66	497.0	5.3	**1.8412**	0.094	5.1	ug/L	74	KED
|	Zn -4	67	82.0	5.6	**1.9232**	0.149	7.8	ug/L	11	KED
|	Zn -5	68	392.7	1.9	**1.9725**	0.057	2.9	ug/L	48	KED
|	As-2	75	44.0	9.1	**0.3163**	0.027	8.6	ug/L	2	KED
	Y-1	89	49554.1	0.8				ug/L	56057	KED
	Rh-1	103	31685.1	1.2				ug/L	42836	KED
|	Cd -2	111	13.0	35.3	**-0.0165**	0.010	59.7	ug/L	4	KED
|	Cd -3	114	30.3	10.6	**-0.0330**	0.003	8.4	ug/L	7	KED
|>	Sc	45	610999.0	0.3				ug/L	749258	Standard
|>	Ge	72	332330.1	2.6				ug/L	446707	Standard
|>	In	115	323011.1	2.0				ug/L	446509	Standard
|>	Tb	159	455003.0	0.8				ug/L	663614	Standard
|>	Ge-1	72	22652.6	1.3				ug/L	26774	KED
|>	In-1	115	32214.0	0.7				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		81.547
| >	Ge	72		74.396
| >	In	115		72.341
| >	Tb	159		68.564
| >	Ge-1	72		84.608
| >	In-1	115		78.802

Quantitative Analysis - Summary Report

Sample ID: 05-442-01d 5X

Sample Date/Time: Saturday, June 01, 2024 11:04:58
Report Date/Time: Saturday, June 01, 2024 11:08:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-442-01d 5X.390

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	61595.5	1.2	**2.1878**	0.052	2.4	ug/L	20848	Standard
|	Cr -1	53	74541.1	9.5	**32.3074**	3.706	11.5	ug/L	2436	Standard
|	Ni	58	54247.4	23.3	**5.4529**	0.968	17.8	ug/L	-7461	Standard
|	Ni -1	60	15419.3	2.7	**3.4782**	0.065	1.9	ug/L	209	Standard
|	Ni -2	62	134329.6	7.6	**198.2441**	23.832	12.0	ug/L	2414	Standard
|	Cu	63	126829.4	4.9	**12.6772**	1.192	9.4	ug/L	3083	Standard
|	Cu -1	65	1733.8	14.7	**0.3444**	0.074	21.5	ug/L	471	Standard
|	Zn	66	3347.7	12.8	**1.0706**	0.250	23.3	ug/L	741	Standard
|	Zn -1	67	2004.5	4.0	**4.6886**	0.427	9.1	ug/L	144	Standard
|	Zn -2	68	5250.3	1.0	**2.6940**	0.119	4.4	ug/L	764	Standard
|	As	75	32910.6	2.6	**9.7764**	1.066	10.9	ug/L	12792	Standard
|	As-1	75	6733.0	1.7	**3.0626**	0.190	6.2	ug/L	-68	Standard
|	Se	77	3643.5	10.7	**25.9085**	4.066	15.7	ug/L	103	Standard
|	Se -1	78	27743.3	3.3	**36.2934**	4.825	13.3	ug/L	12881	Standard
|	Br	79	459638.8	2.4				ug/L	373	Standard
|	Se -2	82	655.3	10.4	**3.3160**	0.508	15.3	ug/L	27	Standard
	Kr	83	237.7	15.6				ug/L	21	Standard
	Y	89	583267.8	2.6				ug/L	602615	Standard
|	Rh	103	102588.1	1.7				ug/L	112596	Standard
|	Cd	111	217.6	11.3	**-0.0221**	0.010	45.5	ug/L	209	Standard
|	Cd -1	114	81.2	5.1	**-0.0199**	0.001	4.0	ug/L	17	Standard
|	Ho	165	577972.4	3.1				ug/L	645073	Standard
|	Pb	208	1657.0	5.5	**0.0089**	0.003	34.2	ug/L	648	Standard
|	Bi	209	322035.3	2.1				ug/L	378643	Standard
|	Th	232	418022.4	2.4				ug/L	482278	Standard
|	Cr -2	52	654.3	4.1	**0.2059**	0.013	6.5	ug/L	242	KED
|	Cr -3	53	189.3	5.3	**0.6369**	0.033	5.2	ug/L	35	KED
|	Ni -3	58	16263.8	2.8	**7.2724**	0.308	4.2	ug/L	102	KED
|	Ni -4	60	2978.3	1.5	**3.0960**	0.072	2.3	ug/L	46	KED
|	Ni -5	62	453.0	9.0	**3.0963**	0.329	10.6	ug/L	7	KED
|	Cu -2	63	338.3	13.4	**0.0934**	0.021	22.4	ug/L	278	KED
|	Cu -3	65	168.0	5.5	**0.0900**	0.010	11.5	ug/L	116	KED
|	Zn -3	66	256.3	2.6	**0.6450**	0.043	6.7	ug/L	74	KED
|	Zn -4	67	186.7	11.5	**4.3285**	0.528	12.2	ug/L	11	KED
|	Zn -5	68	663.3	2.6	**3.2811**	0.147	4.5	ug/L	48	KED
|	As-2	75	426.0	3.4	**2.4432**	0.077	3.2	ug/L	2	KED
	Y-1	89	55177.0	0.9				ug/L	56057	KED
	Rh-1	103	34867.5	0.2				ug/L	42836	KED
|	Cd -2	111	9.0	0.0	**-0.0281**	0.000	1.0	ug/L	4	KED
|	Cd -3	114	18.3	11.4	**-0.0451**	0.001	2.8	ug/L	7	KED
| >	Sc	45	662602.2	1.8				ug/L	749258	Standard
| >	Ge	72	415800.8	4.4				ug/L	446707	Standard
| >	In	115	391512.4	1.8				ug/L	446509	Standard
| >	Tb	159	588855.8	2.3				ug/L	663614	Standard
| >	Ge-1	72	24621.9	1.4				ug/L	26774	KED
| >	In-1	115	37818.4	1.7				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		88.434
|>	Ge	72		93.081
|>	In	115		87.683
|>	Tb	159		88.735
|>	Ge-1	72		91.963
|>	In-1	115		92.512

Quantitative Analysis - Summary Report

Sample ID: 05-442-02d 5X

Sample Date/Time: Saturday, June 01, 2024 11:10:37
Report Date/Time: Saturday, June 01, 2024 11:13:57
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\05-442-02d 5X.391

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	65496.2	1.6	**2.7055**	0.043	1.6	ug/L	20848	Standard
|	Cr -1	53	50043.0	4.5	**23.6081**	1.513	6.4	ug/L	2436	Standard
|	Ni	58	63292.6	16.6	**6.4460**	0.795	12.3	ug/L	-7461	Standard
|	Ni -1	60	13725.3	1.9	**3.1776**	0.047	1.5	ug/L	209	Standard
|	Ni -2	62	108828.0	0.2	**163.9447**	5.443	3.3	ug/L	2414	Standard
|	Cu	63	119542.8	1.0	**12.2387**	0.298	2.4	ug/L	3083	Standard
|	Cu -1	65	1052.4	4.6	**0.1984**	0.017	8.8	ug/L	471	Standard
|	Zn	66	7443.6	2.8	**2.9124**	0.022	0.8	ug/L	741	Standard
|	Zn -1	67	2024.5	4.2	**4.8743**	0.333	6.8	ug/L	144	Standard
|	Zn -2	68	7100.1	3.7	**3.9338**	0.041	1.0	ug/L	764	Standard
|	As	75	27714.3	1.0	**7.6905**	0.404	5.3	ug/L	12792	Standard
|	As-1	75	6055.9	3.9	**2.8259**	0.109	3.9	ug/L	-68	Standard
|	Se	77	2460.2	2.2	**17.7053**	1.009	5.7	ug/L	103	Standard
|	Se -1	78	23131.0	0.4	**27.1134**	1.765	6.5	ug/L	12881	Standard
|	Br	79	567998.5	3.1				ug/L	373	Standard
|	Se -2	82	612.0	3.3	**3.1632**	0.147	4.7	ug/L	27	Standard
	Kr	83	129.7	5.8				ug/L	21	Standard
	Y	89	577388.2	2.2				ug/L	602615	Standard
|	Rh	103	98962.7	2.4				ug/L	112596	Standard
|	Cd	111	233.0	5.6	**-0.0108**	0.005	50.0	ug/L	209	Standard
|	Cd -1	114	75.7	4.4	**-0.0200**	0.000	1.5	ug/L	17	Standard
|	Ho	165	577538.0	2.3				ug/L	645073	Standard
|	Pb	208	3165.8	5.1	**0.0465**	0.003	6.4	ug/L	648	Standard
|	Bi	209	318901.2	1.3				ug/L	378643	Standard
|	Th	232	433301.5	1.3				ug/L	482278	Standard
|	Cr -2	52	569.3	7.4	**0.1776**	0.023	13.0	ug/L	242	KED
|	Cr -3	53	169.0	8.0	**0.5910**	0.058	9.8	ug/L	35	KED
|	Ni -3	58	15222.3	1.1	**7.1946**	0.099	1.4	ug/L	102	KED
|	Ni -4	60	2655.6	0.2	**2.9162**	0.032	1.1	ug/L	46	KED
|	Ni -5	62	436.7	3.8	**3.1558**	0.162	5.1	ug/L	7	KED
|	Cu -2	63	207.7	6.4	**0.0441**	0.006	12.9	ug/L	278	KED
|	Cu -3	65	97.3	9.5	**0.0323**	0.010	30.5	ug/L	116	KED
|	Zn -3	66	756.7	3.3	**2.9391**	0.148	5.0	ug/L	74	KED
|	Zn -4	67	174.7	7.5	**4.2784**	0.314	7.3	ug/L	11	KED
|	Zn -5	68	796.0	3.6	**4.2660**	0.169	4.0	ug/L	48	KED
|	As-2	75	372.3	5.8	**2.2609**	0.110	4.9	ug/L	2	KED
	Y-1	89	52641.8	1.2				ug/L	56057	KED
	Rh-1	103	32543.0	1.0				ug/L	42836	KED
|	Cd -2	111	6.7	56.8	**-0.0320**	0.007	22.8	ug/L	4	KED
|	Cd -3	114	16.3	31.4	**-0.0460**	0.004	8.5	ug/L	7	KED
|>	Sc	45	602332.5	1.6				ug/L	749258	Standard
|>	Ge	72	404804.8	3.3				ug/L	446707	Standard
|>	In	115	368223.5	1.9				ug/L	446509	Standard
|>	Tb	159	580482.3	1.3				ug/L	663614	Standard
|>	Ge-1	72	23285.0	1.2				ug/L	26774	KED
|>	In-1	115	36505.7	1.7				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		80.391
| >	Ge	72		90.620
| >	In	115		82.467
| >	Tb	159		87.473
| >	Ge-1	72		86.969
| >	In-1	115		89.301

Quantitative Analysis - Summary Report

Sample ID: BL

Sample Date/Time: Saturday, June 01, 2024 11:16:44
Report Date/Time: Saturday, June 01, 2024 11:20:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\BL.392

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	14676.2	1.5	**0.1473**	0.015	10.2	ug/L	20848	Standard
|	Cr -1	53	15925.6	5.8	**8.9515**	0.481	5.4	ug/L	2436	Standard
|	Ni	58	-3129.8	1.6	**0.1944**	0.003	1.5	ug/L	-7461	Standard
|	Ni -1	60	164.0	1.6	**0.0185**	0.001	5.6	ug/L	209	Standard
|	Ni -2	62	76302.7	2.6	**118.6243**	4.374	3.7	ug/L	2414	Standard
|	Cu	63	72304.2	2.3	**7.6082**	0.254	3.3	ug/L	3083	Standard
|	Cu -1	65	628.7	4.4	**0.1078**	0.008	7.0	ug/L	471	Standard
|	Zn	66	700.4	1.7	**-0.0545**	0.009	15.7	ug/L	741	Standard
|	Zn -1	67	280.3	6.3	**0.3031**	0.047	15.5	ug/L	144	Standard
|	Zn -2	68	648.3	6.5	**-0.0841**	0.026	31.2	ug/L	764	Standard
|	As	75	19732.4	0.2	**4.2581**	0.091	2.1	ug/L	12792	Standard
|	As-1	75	-161.8	20.1	**-0.0710**	0.017	23.4	ug/L	-68	Standard
|	Se	77	765.4	4.5	**5.2740**	0.228	4.3	ug/L	103	Standard
|	Se -1	78	19999.0	0.1	**21.6489**	0.539	2.5	ug/L	12881	Standard
|	Br	79	21284.2	1.7				ug/L	373	Standard
|	Se -2	82	70.7	3.6	**0.2526**	0.018	7.0	ug/L	27	Standard
	Kr	83	68.0	12.6				ug/L	21	Standard
	Y	89	605636.4	2.4				ug/L	602615	Standard
|	Rh	103	109609.1	2.7				ug/L	112596	Standard
|	Cd	111	192.1	8.5	**-0.0272**	0.006	22.8	ug/L	209	Standard
|	Cd -1	114	19.3	12.9	**-0.0288**	0.000	1.2	ug/L	17	Standard
|	Ho	165	596857.0	0.8				ug/L	645073	Standard
|	Pb	208	789.0	2.5	**-0.0118**	0.001	5.0	ug/L	648	Standard
|	Bi	209	355225.3	1.6				ug/L	378643	Standard
|	Th	232	440766.4	1.0				ug/L	482278	Standard
|	Cr -2	52	164.3	7.4	**-0.0418**	0.008	19.0	ug/L	242	KED
|	Cr -3	53	42.3	23.9	**0.0355**	0.054	152.0	ug/L	35	KED
|	Ni -3	58	66.1	23.6	**-0.0094**	0.008	86.3	ug/L	102	KED
|	Ni -4	60	37.0	4.7	**0.0023**	0.002	81.3	ug/L	46	KED
|	Ni -5	62	18.3	20.7	**0.0803**	0.030	37.8	ug/L	7	KED
|	Cu -2	63	184.3	1.3	**0.0441**	0.001	1.4	ug/L	278	KED
|	Cu -3	65	83.0	15.8	**0.0285**	0.013	47.3	ug/L	116	KED
|	Zn -3	66	62.7	6.4	**-0.1219**	0.018	14.5	ug/L	74	KED
|	Zn -4	67	9.0	29.4	**-0.0127**	0.076	601.7	ug/L	11	KED
|	Zn -5	68	35.7	18.7	**-0.1520**	0.046	30.2	ug/L	48	KED
|	As-2	75	1.3	43.3	**0.0561**	0.004	7.0	ug/L	2	KED
	Y-1	89	48532.0	0.7				ug/L	56057	KED
	Rh-1	103	31259.2	1.6				ug/L	42836	KED
|	Cd -2	111	1.7	124.9	**-0.0417**	0.004	9.6	ug/L	4	KED
|	Cd -3	114	8.0	21.7	**-0.0521**	0.001	2.3	ug/L	7	KED
|>	Sc	45	476107.4	0.9				ug/L	749258	Standard
|>	Ge	72	389004.2	1.0				ug/L	446707	Standard
|>	In	115	368145.6	1.3				ug/L	446509	Standard
|>	Tb	159	578515.8	1.8				ug/L	663614	Standard
|>	Ge-1	72	20685.0	0.8				ug/L	26774	KED
|>	In-1	115	36295.4	1.3				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		63.544
| >	Ge	72		87.083
| >	In	115		82.450
| >	Tb	159		87.177
| >	Ge-1	72		77.258
| >	In-1	115		88.786

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 11:34:57
Report Date/Time: Saturday, June 01, 2024 11:38:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 6.395

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	699237.1	2.8	**47.4694**	0.480	1.0	ug/L	20848	Standard
|	Cr -1	53	85460.9	1.2	**52.1692**	0.942	1.8	ug/L	2436	Standard
|	Ni	58	372344.4	2.6	**38.2537**	0.428	1.1	ug/L	-7461	Standard
|	Ni -1	60	148557.6	2.0	**37.2390**	0.150	0.4	ug/L	209	Standard
|	Ni -2	62	134368.0	1.2	**218.9700**	7.158	3.3	ug/L	2414	Standard
|	Cu	63	453198.1	0.4	**50.6999**	0.839	1.7	ug/L	3083	Standard
|	Cu -1	65	154796.3	3.8	**37.7432**	0.701	1.9	ug/L	471	Standard
|	Zn	66	88509.4	2.3	**41.7149**	0.204	0.5	ug/L	741	Standard
|	Zn -1	67	14746.9	2.0	**41.3628**	0.251	0.6	ug/L	144	Standard
|	Zn -2	68	63080.7	3.1	**41.9528**	0.499	1.2	ug/L	764	Standard
|	As	75	105657.7	2.5	**48.7093**	0.645	1.3	ug/L	12792	Standard
|	As-1	75	91765.3	3.3	**45.9591**	0.787	1.7	ug/L	-68	Standard
|	Se	77	6427.8	1.4	**50.9446**	0.466	0.9	ug/L	103	Standard
|	Se -1	78	34523.3	0.9	**59.9377**	1.329	2.2	ug/L	12881	Standard
|	Br	79	10721.4	3.6				ug/L	373	Standard
|	Se -2	82	8146.3	2.9	**47.2197**	0.714	1.5	ug/L	27	Standard
	Kr	83	39.0	2.6				ug/L	21	Standard
	Y	89	571485.1	2.4				ug/L	602615	Standard
|	Rh	103	104574.9	2.9				ug/L	112596	Standard
|	Cd	111	113043.6	1.7	**46.7598**	0.784	1.7	ug/L	209	Standard
|	Cd -1	114	276157.9	1.1	**44.5652**	0.700	1.6	ug/L	17	Standard
|	Ho	165	582094.9	1.0				ug/L	645073	Standard
|	Pb	208	1808445.4	1.4	**45.9136**	0.599	1.3	ug/L	648	Standard
|	Bi	209	350298.7	2.4				ug/L	378643	Standard
|	Th	232	443379.1	1.8				ug/L	482278	Standard
|	Cr -2	52	59399.2	0.6	**37.7480**	0.127	0.3	ug/L	242	KED
|	Cr -3	53	7343.9	1.2	**37.4105**	0.223	0.6	ug/L	35	KED
|	Ni -3	58	67355.3	1.4	**35.7510**	0.552	1.5	ug/L	102	KED
|	Ni -4	60	29320.4	0.9	**36.4815**	0.493	1.4	ug/L	46	KED
|	Ni -5	62	4467.7	1.3	**36.8192**	0.532	1.4	ug/L	7	KED
|	Cu -2	63	74862.3	0.5	**36.5345**	0.377	1.0	ug/L	278	KED
|	Cu -3	65	35562.5	0.4	**37.2410**	0.311	0.8	ug/L	116	KED
|	Zn -3	66	8865.8	2.1	**43.7439**	0.628	1.4	ug/L	74	KED
|	Zn -4	67	1395.1	1.1	**40.3927**	0.718	1.8	ug/L	11	KED
|	Zn -5	68	6570.2	0.7	**42.5278**	0.188	0.4	ug/L	48	KED
|	As-2	75	6172.3	0.7	**41.0695**	0.233	0.6	ug/L	2	KED
	Y-1	89	49406.6	0.7				ug/L	56057	KED
	Rh-1	103	31613.6	0.6				ug/L	42836	KED
|	Cd -2	111	20737.4	0.4	**40.5203**	0.012	0.0	ug/L	4	KED
|	Cd -3	114	55741.5	0.6	**40.8792**	0.270	0.7	ug/L	7	KED
| >	Sc	45	474923.0	2.0				ug/L	749258	Standard
| >	Ge	72	376048.7	2.0				ug/L	446707	Standard
| >	In	115	356059.8	2.6				ug/L	446509	Standard
| >	Tb	159	561239.1	2.0				ug/L	663614	Standard
| >	Ge-1	72	20836.2	0.7				ug/L	26774	KED
| >	In-1	115	36025.8	0.4				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		63.386
|>	Ge	72		84.182
|>	In	115		79.743
|>	Tb	159		84.573
|>	Ge-1	72		77.823
|>	In-1	115		88.127

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 11:46:46
Report Date/Time: Saturday, June 01, 2024 11:50:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 7.397

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	353408.5	2.5	**23.1912**	0.585	2.5	ug/L	20848	Standard
|	Cr -1	53	44449.7	0.7	**26.2678**	0.161	0.6	ug/L	2436	Standard
|	Ni	58	184752.2	2.8	**18.9147**	0.398	2.1	ug/L	-7461	Standard
|	Ni -1	60	77233.9	0.2	**19.0235**	0.365	1.9	ug/L	209	Standard
|	Ni -2	62	62000.6	1.7	**97.4260**	3.510	3.6	ug/L	2414	Standard
|	Cu	63	225417.3	0.7	**24.6584**	0.391	1.6	ug/L	3083	Standard
|	Cu -1	65	78856.7	0.6	**18.8859**	0.251	1.3	ug/L	471	Standard
|	Zn	66	45214.8	2.7	**20.7575**	0.258	1.2	ug/L	741	Standard
|	Zn -1	67	7547.7	1.6	**20.5779**	0.164	0.8	ug/L	144	Standard
|	Zn -2	68	32536.7	3.1	**21.0218**	0.441	2.1	ug/L	764	Standard
|	As	75	58636.7	1.6	**24.0563**	0.213	0.9	ug/L	12792	Standard
|	As-1	75	45553.7	1.7	**22.4329**	0.219	1.0	ug/L	-68	Standard
|	Se	77	3322.7	3.9	**25.5536**	0.822	3.2	ug/L	103	Standard
|	Se -1	78	23291.0	2.4	**30.6130**	0.515	1.7	ug/L	12881	Standard
|	Br	79	5564.4	1.8				ug/L	373	Standard
|	Se -2	82	4039.9	3.4	**22.9418**	0.475	2.1	ug/L	27	Standard
	Kr	83	29.0	12.4				ug/L	21	Standard
	Y	89	586511.9	1.1				ug/L	602615	Standard
|	Rh	103	103637.7	2.5				ug/L	112596	Standard
|	Cd	111	56890.2	3.9	**23.2824**	0.122	0.5	ug/L	209	Standard
|	Cd -1	114	140676.0	2.1	**22.5046**	0.423	1.9	ug/L	17	Standard
|	Ho	165	593842.5	3.7				ug/L	645073	Standard
|	Pb	208	941726.1	2.1	**23.7052**	0.111	0.5	ug/L	648	Standard
|	Bi	209	355520.2	1.3				ug/L	378643	Standard
|	Th	232	448943.3	2.2				ug/L	482278	Standard
|	Cr -2	52	29714.9	1.9	**19.0440**	0.410	2.2	ug/L	242	KED
|	Cr -3	53	3698.8	2.0	**18.9838**	0.290	1.5	ug/L	35	KED
|	Ni -3	58	33467.7	0.8	**17.9604**	0.192	1.1	ug/L	102	KED
|	Ni -4	60	14688.5	1.5	**18.4779**	0.211	1.1	ug/L	46	KED
|	Ni -5	62	2174.5	3.4	**18.1021**	0.522	2.9	ug/L	7	KED
|	Cu -2	63	37798.6	0.8	**18.6502**	0.134	0.7	ug/L	278	KED
|	Cu -3	65	17963.6	1.5	**19.0147**	0.375	2.0	ug/L	116	KED
|	Zn -3	66	4508.0	1.2	**22.3060**	0.211	0.9	ug/L	74	KED
|	Zn -4	67	757.4	3.9	**22.0750**	0.976	4.4	ug/L	11	KED
|	Zn -5	68	3403.7	1.7	**22.1200**	0.457	2.1	ug/L	48	KED
|	As-2	75	3030.3	0.4	**20.4354**	0.159	0.8	ug/L	2	KED
	Y-1	89	48916.3	0.7				ug/L	56057	KED
	Rh-1	103	31287.9	0.8				ug/L	42836	KED
|	Cd -2	111	10542.6	1.7	**20.3147**	0.598	2.9	ug/L	4	KED
|	Cd -3	114	28064.5	0.3	**20.2875**	0.320	1.6	ug/L	7	KED
| >	Sc	45	482333.9	0.5				ug/L	749258	Standard
| >	Ge	72	382579.5	1.7				ug/L	446707	Standard
| >	In	115	358972.1	3.5				ug/L	446509	Standard
| >	Tb	159	565618.1	1.9				ug/L	663614	Standard
| >	Ge-1	72	20582.8	0.5				ug/L	26774	KED
| >	In-1	115	36500.3	1.3				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
|>	Sc	45		64.375
|>	Ge	72		85.644
|>	In	115		80.395
|>	Tb	159		85.233
|>	Ge-1	72		76.877
|>	In-1	115		89.288

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 11:58:28
Report Date/Time: Saturday, June 01, 2024 12:01:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601A\QC Std 8.399

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Cr	52	12395.4	2.1	**-0.0138**	0.007	49.9	ug/L	20848	Standard
|	Cr -1	53	2562.6	1.7	**0.6703**	0.049	7.3	ug/L	2436	Standard
|	Ni	58	-3424.4	2.4	**0.1594**	0.007	4.3	ug/L	-7461	Standard
|	Ni -1	60	153.3	3.7	**0.0166**	0.002	12.0	ug/L	209	Standard
|	Ni -2	62	35321.3	0.5	**54.0785**	0.747	1.4	ug/L	2414	Standard
|	Cu	63	34577.5	1.4	**3.5766**	0.112	3.1	ug/L	3083	Standard
|	Cu -1	65	490.7	5.2	**0.0773**	0.004	5.4	ug/L	471	Standard
|	Zn	66	585.3	1.4	**-0.1025**	0.002	2.2	ug/L	741	Standard
|	Zn -1	67	117.0	6.2	**-0.1387**	0.025	17.9	ug/L	144	Standard
|	Zn -2	68	588.7	3.3	**-0.1158**	0.017	15.0	ug/L	764	Standard
|	As	75	13002.8	0.4	**1.0353**	0.081	7.9	ug/L	12792	Standard
|	As-1	75	-19.0	138.6	**-0.0019**	0.013	703.4	ug/L	-68	Standard
|	Se	77	146.3	0.8	**0.4914**	0.015	3.0	ug/L	103	Standard
|	Se -1	78	13073.6	0.6	**5.3572**	0.350	6.5	ug/L	12881	Standard
|	Br	79	3872.2	1.8				ug/L	373	Standard
|	Se -2	82	39.7	14.3	**0.0819**	0.029	35.0	ug/L	27	Standard
	Kr	83	34.0	39.6				ug/L	21	Standard
	Y	89	583806.0	0.8				ug/L	602615	Standard
|	Rh	103	104710.8	2.5				ug/L	112596	Standard
|	Cd	111	209.1	2.4	**-0.0191**	0.004	20.8	ug/L	209	Standard
|	Cd -1	114	23.9	4.1	**-0.0280**	0.000	0.5	ug/L	17	Standard
|	Ho	165	590305.2	2.6				ug/L	645073	Standard
|	Pb	208	613.7	6.0	**-0.0157**	0.001	6.5	ug/L	648	Standard
|	Bi	209	349130.7	2.2				ug/L	378643	Standard
|	Th	232	433149.0	1.0				ug/L	482278	Standard
|	Cr -2	52	176.7	5.7	**-0.0383**	0.005	13.2	ug/L	242	KED
|	Cr -3	53	24.7	12.4	**-0.0607**	0.016	27.0	ug/L	35	KED
|	Ni -3	58	66.7	11.3	**-0.0104**	0.004	39.2	ug/L	102	KED
|	Ni -4	60	29.0	28.2	**-0.0091**	0.010	111.3	ug/L	46	KED
|	Ni -5	62	9.3	32.7	**0.0027**	0.025	927.6	ug/L	7	KED
|	Cu -2	63	178.7	0.9	**0.0379**	0.001	1.9	ug/L	278	KED
|	Cu -3	65	87.0	6.0	**0.0291**	0.005	15.7	ug/L	116	KED
|	Zn -3	66	57.3	21.0	**-0.1594**	0.061	38.1	ug/L	74	KED
|	Zn -4	67	11.7	55.1	**0.0538**	0.185	344.5	ug/L	11	KED
|	Zn -5	68	44.0	25.6	**-0.1091**	0.069	63.4	ug/L	48	KED
|	As-2	75	3.3	96.4	**0.0686**	0.021	30.2	ug/L	2	KED
	Y-1	89	50125.8	1.3				ug/L	56057	KED
	Rh-1	103	32200.3	1.5				ug/L	42836	KED
|	Cd -2	111	2.0	50.0	**-0.0411**	0.002	4.6	ug/L	4	KED
|	Cd -3	114	7.0	24.7	**-0.0529**	0.001	2.3	ug/L	7	KED
|>	Sc	45	478213.6	1.3				ug/L	749258	Standard
|>	Ge	72	382077.2	1.6				ug/L	446707	Standard
|>	In	115	363046.7	2.3				ug/L	446509	Standard
|>	Tb	159	564871.6	1.5				ug/L	663614	Standard
|>	Ge-1	72	21523.5	1.0				ug/L	26774	KED
|>	In-1	115	37023.0	0.5				ug/L	40879	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Cr	52		
|	Cr -1	53		
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Cd	111		
|	Cd -1	114		
|	Ho	165		
|	Pb	208		
|	Bi	209		
|	Th	232		
|	Cr -2	52		
|	Cr -3	53		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	Cu -2	63		
|	Cu -3	65		
|	Zn -3	66		
|	Zn -4	67		
|	Zn -5	68		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|	Cd -2	111		
|	Cd -3	114		
| >	Sc	45		63.825
| >	Ge	72		85.532
| >	In	115		81.308
| >	Tb	159		85.121
| >	Ge-1	72		80.390
| >	In-1	115		90.566

Dataset Report

6-1-24
ICPM

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\
Report Date/Time: Saturday, June 01, 2024 15:36:21

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
	Blank	12:10:25 Sat 01-Ju	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 1	12:14:16 Sat 01-Ju	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 2	12:18:06 Sat 01-Ju	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Blank	12:21:32 Sat 01-Ju	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 1	12:25:22 Sat 01-Ju	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 2	12:29:12 Sat 01-Ju	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 3	12:33:02 Sat 01-Ju	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 4	12:36:52 Sat 01-Ju	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 5	12:40:42 Sat 01-Ju	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 6	12:44:33 Sat 01-Ju	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	Standard 7	12:48:23 Sat 01-Ju	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 1	12:53:03 Sat 01-Ju	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 2	12:57:44 Sat 01-Ju	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	13:01:35 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	13:06:16 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	13:10:56 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	MB0601WH1 2X	13:20:40 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	SB0601WH1 2X	13:25:20 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05b 2X	13:30:44 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bD 2X	13:44:29 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bL 10X	13:49:07 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bMS 2X	13:53:47 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bMSD 2X	14:03:54 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-300-05bPS 2X	14:08:34 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-426-01 5X	14:13:14 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-410-01a 5X	14:17:54 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	14:32:01 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	14:36:41 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	14:41:21 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-01c 5X	14:46:57 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-442-02c 5X	14:51:37 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-01b 10X 29WI	14:56:16 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-02b 10X	15:00:56 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-03b 10X	15:05:35 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-04c 10X	15:10:14 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-05c 10X	15:14:53 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	05-311-03c 10X FFD	15:19:32 Sat 01-Ju	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 6	15:24:12 Sat 01-Ju	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 7	15:28:53 Sat 01-Ju	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	
	QC Std 8	15:33:34 Sat 01-Ju	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240(	

Performance Check Report

Sample ID: [STD] Performance Check
Sample Date/Time: Friday, May 31, 2024 07:00:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\\Optimizations\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\05MAY24\Y240531A\[STD] Performance Check.003
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

IS	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	60966.2	60966.226	664.149	1.1	Standard
	In	114.9	372756.9	372756.943	307.370	0.1	Standard
	U	238.1	395564.4	395564.394	3631.895	0.9	Standard
Ce	CeO	155.9	11058.3	0.024	0.000	2.0	Standard
Ce	Ce++	70.0	12977.2	0.029	0.000	0.5	Standard
	Bkgd	220.5	0.4	0.400	0.253	63.2	Standard
	Ce	139.9	452141.0	452140.981	1713.129	0.4	Standard

Current Conditions File Data

Current Value	Description
-100.00	Standard - OmniRing Park Voltage
4.00	Standard - Hyperskimmer Park Voltage
1.00	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
15.00	Standard - Plasma Gas Flow
0.00	Standard - Oxygen Gas Flow
-10.00	Standard - QID Fixed Voltage
1600.00	Standard - ICP RF Power
-1675.00	Standard - Analog Stage
1050.00	Standard - Pulse Stage
0.00	Standard - Q1 Rod Offset STD [QRO]
-12.00	Standard - Cell Rod Offset STD [CRO]
-3.00	Standard - Cell Entrance/Exit Voltage STD
0.00	Standard - Axial Field Voltage
5.00	Ammonia DRC - OmniRing Park Voltage
1.00	Ammonia DRC - DRC Mode NEB
2.00	Ammonia DRC - Hyperskimmer Park Voltage
-9.50	Ammonia DRC - DRC Mode QRO
-2.50	Ammonia DRC - DRC Mode CRO
-7.00	Ammonia DRC - DRC Mode Cell Entrance/Exit Voltage
250.00	Ammonia DRC - Axial Field Voltage
0.60	Ammonia DRC - Cell Gas A
2.00	Helium KED - Hyperskimmer Park Voltage
5.00	Helium KED - OmniRing Park Voltage
-12.00	Helium KED - KED Mode QRO
-15.00	Helium KED - KED Mode CRO
-4.00	Helium KED - KED Mode Cell Entrance Voltage
-32.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage

2.00 Helium KED - Cell Gas B

Instrument Mass Calibration Report

File Name:
File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\
Acq. Date/Time: 07:00:04 Fri 31-May-24

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Peak Width	Custom Res.
Li	7.016	6.975	1222	2062	0.696	
Mg	23.985	23.975	4579	2063	0.715	
In	114.904	114.875	22592	2066	0.719	
Pb	207.977	207.975	41052	2066	0.719	
U	238.050	238.075	47019	2067	0.724	

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Cr	51.941	Weighted Linear	0.03	-0.00	0.999593
Cr -1	52.941	Weighted Linear	0.00	-0.00	0.998856
Ni	57.935	Weighted Linear	0.03	0.01	0.999330
Ni -1	59.933	Weighted Linear	0.01	-0.00	0.998532
Ni -2	61.928	Weighted Linear	0.00	-0.00	0.997156
Cu	62.930	Weighted Linear	0.02	-0.00	0.998239
Cu -1	64.928	Weighted Linear	0.01	-0.00	0.998509
Zn	65.926	Weighted Linear	0.01	0.00	0.998793
Zn -1	66.927	Weighted Linear	0.00	0.00	0.998483
Zn -2	67.925	Weighted Linear	0.00	-0.00	0.999251
As	74.922	Weighted Linear	0.01	0.00	0.999172
As-1	74.922	Weighted Linear	0.01	0.00	0.998848
Se	76.920	Weighted Linear	0.00	0.00	0.999796
Se -1	77.917	Weighted Linear	0.00	-0.00	0.999029
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	-0.00	0.999418
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Cd	110.904	Weighted Linear	0.01	0.00	0.998556
Cd -1	113.904	Weighted Linear	0.02	0.00	0.998819
Ho	164.930	Weighted Linear	0.00	0.00	0.000000
Pb	207.977	Weighted Linear	0.07	0.00	0.998870
Bi	208.980	Weighted Linear	0.00	0.00	0.000000
Th	232.038	Weighted Linear	0.00	0.00	0.000000
Cr -2	51.941	Weighted Linear	0.07	0.00	0.999112
Cr -3	52.941	Weighted Linear	0.01	0.00	0.997333
Ni -3	57.935	Weighted Linear	0.09	-0.00	0.998625
Ni -4	59.933	Weighted Linear	0.04	-0.00	0.999076
Ni -5	61.928	Weighted Linear	0.01	-0.00	0.997681
Cu -2	62.930	Weighted Linear	0.10	-0.00	0.998337
Cu -3	64.928	Weighted Linear	0.05	-0.00	0.998050
Zn -3	65.926	Weighted Linear	0.01	0.00	0.998330
Zn -4	66.927	Weighted Linear	0.00	0.00	0.999388
Zn -5	67.925	Weighted Linear	0.01	0.00	0.999687
As-2	74.922	Weighted Linear	0.01	-0.00	0.998560
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Cd -2	110.904	Weighted Linear	0.01	0.00	0.998664
Cd -3	113.904	Weighted Linear	0.04	0.00	0.998593
Sc	44.956	Linear Thru Zero	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Tb	158.925	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000
In-1	114.904	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, June 01, 2024 12:21:32
Report Date/Time: Saturday, June 01, 2024 12:23:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Blank.004

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-4072.8	1.8				ug/L		Standard
|	Ni -1	60	154.7	3.3				ug/L		Standard
|	Ni -2	62	26155.3	0.8				ug/L		Standard
|	Cu	63	25401.9	0.4				ug/L		Standard
|	Cu -1	65	478.7	4.6				ug/L		Standard
|	Zn	66	604.0	2.7				ug/L		Standard
|	Zn -1	67	114.7	22.4				ug/L		Standard
|	Zn -2	68	604.7	3.9				ug/L		Standard
|	As	75	12853.4	1.4				ug/L		Standard
|	As-1	75	-4.3	1646.4				ug/L		Standard
|	Se	77	98.0	6.2				ug/L		Standard
|	Se -1	78	12897.5	1.4				ug/L		Standard
|	Br	79	2837.6	0.4				ug/L		Standard
|	Se -2	82	34.7	8.8				ug/L		Standard
	Kr	83	29.0	21.0				ug/L		Standard
	Y	89	601935.1	3.1				ug/L		Standard
|	Rh	103	108501.6	2.2				ug/L		Standard
|	Ni -3	58	68.2	32.3				ug/L		KED
|	Ni -4	60	29.7	19.8				ug/L		KED
|	Ni -5	62	8.7	24.0				ug/L		KED
|	Cu -2	63	172.0	8.0				ug/L		KED
|	Cu -3	65	88.7	7.3				ug/L		KED
|	Zn -3	66	64.7	12.0				ug/L		KED
|	Zn -4	67	10.3	29.6				ug/L		KED
|	Zn -5	68	39.3	11.5				ug/L		KED
|	As-2	75	0.7	86.6				ug/L		KED
	Y-1	89	50921.3	0.5				ug/L		KED
	Rh-1	103	32421.1	0.7				ug/L		KED
| >	Ge	72	400119.8	1.2				ug/L		Standard
| >	In	115	376660.2	1.8				ug/L		Standard
| >	Ge-1	72	21869.7	2.1				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
|>	Ge	72
|>	In	115
|>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, June 01, 2024 12:25:22
Report Date/Time: Saturday, June 01, 2024 12:27:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 1.005

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-1891.2	5.7				ug/L	-4073	Standard
|	Ni -1	60	911.0	5.0				ug/L	155	Standard
|	Ni -2	62	22479.7	1.6				ug/L	26155	Standard
|	Cu	63	22631.9	0.7				ug/L	25402	Standard
|	Cu -1	65	1021.0	4.9				ug/L	479	Standard
|	Zn	66	683.7	3.3				ug/L	604	Standard
|	Zn -1	67	138.0	1.3				ug/L	115	Standard
|	Zn -2	68	660.0	1.4				ug/L	605	Standard
|	As	75	13367.7	2.0				ug/L	12853	Standard
|	As-1	75	465.9	26.8				ug/L	-4	Standard
|	Se	77	122.0	6.7				ug/L	98	Standard
|	Se -1	78	13041.3	1.2				ug/L	12897	Standard
|	Br	79	2420.9	1.3				ug/L	2838	Standard
|	Se -2	82	74.0	12.2				ug/L	35	Standard
	Kr	83	37.3	1.5				ug/L	29	Standard
	Y	89	593135.5	2.2				ug/L	601935	Standard
|	Rh	103	105591.5	1.3				ug/L	108502	Standard
|	Ni -3	58	382.7	5.4				ug/L	68	KED
|	Ni -4	60	166.7	8.1				ug/L	30	KED
|	Ni -5	62	34.7	10.1				ug/L	9	KED
|	Cu -2	63	472.0	7.9				ug/L	172	KED
|	Cu -3	65	209.3	5.2				ug/L	89	KED
|	Zn -3	66	64.3	15.9				ug/L	65	KED
|	Zn -4	67	8.3	30.2				ug/L	10	KED
|	Zn -5	68	53.7	13.1				ug/L	39	KED
|	As-2	75	31.3	19.2				ug/L	1	KED
	Y-1	89	50095.0	1.0				ug/L	50921	KED
	Rh-1	103	31722.9	0.9				ug/L	32421	KED
|>	Ge	72	392265.2	2.4				ug/L	400120	Standard
|>	In	115	362245.3	1.3				ug/L	376660	Standard
|>	Ge-1	72	21426.4	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, June 01, 2024 12:29:12
Report Date/Time: Saturday, June 01, 2024 12:31:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 2.006

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	649.0	11.8				ug/L	-4073	Standard
|	**Ni -1**	60	1949.1	1.6				ug/L	155	Standard
|	**Ni -2**	62	21086.9	0.1				ug/L	26155	Standard
|	**Cu**	63	23373.1	1.7				ug/L	25402	Standard
|	**Cu -1**	65	2086.2	3.7				ug/L	479	Standard
|	**Zn**	66	1313.7	0.9				ug/L	604	Standard
|	**Zn -1**	67	233.3	2.2				ug/L	115	Standard
|	**Zn -2**	68	1066.7	3.8				ug/L	605	Standard
|	**As**	75	13801.9	1.6				ug/L	12853	Standard
|	**As-1**	75	1028.6	6.0	**0.5000**	0.025	5.0	ug/L	-4	Standard
|	**Se**	77	165.3	4.0				ug/L	98	Standard
|	**Se -1**	78	13053.0	1.5				ug/L	12897	Standard
|	**Br**	79	2311.5	1.3				ug/L	2838	Standard
|	**Se -2**	82	129.0	9.9				ug/L	35	Standard
	Kr	83	32.3	17.9				ug/L	29	Standard
	Y	89	606163.9	2.1				ug/L	601935	Standard
|	**Rh**	103	109003.4	2.2				ug/L	108502	Standard
|	**Ni -3**	58	844.8	2.7				ug/L	68	KED
|	**Ni -4**	60	365.0	1.7				ug/L	30	KED
|	**Ni -5**	62	53.3	7.1				ug/L	9	KED
|	**Cu -2**	63	968.4	1.0				ug/L	172	KED
|	**Cu -3**	65	459.3	2.3				ug/L	89	KED
|	**Zn -3**	66	116.7	7.1				ug/L	65	KED
|	**Zn -4**	67	21.7	29.7				ug/L	10	KED
|	**Zn -5**	68	100.7	5.0				ug/L	39	KED
|	**As-2**	75	75.3	10.1				ug/L	1	KED
	Y-1	89	51179.9	1.3				ug/L	50921	KED
	Rh-1	103	32490.2	1.1				ug/L	32421	KED
| >	**Ge**	72	396759.0	1.8				ug/L	400120	Standard
| >	**In**	115	370336.1	1.7				ug/L	376660	Standard
| >	**Ge-1**	72	21702.8	2.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Saturday, June 01, 2024 12:33:02
Report Date/Time: Saturday, June 01, 2024 12:35:22
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 3.007

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	16350.4	4.0				ug/L	-4073	Standard
|	**Ni -1**	60	8442.2	1.4	**2.0000**	0.024	1.2	ug/L	155	Standard
|	**Ni -2**	62	23232.9	0.8	**2.0000**	0.266	13.3	ug/L	26155	Standard
|	**Cu**	63	39178.3	1.5	**2.0000**	0.062	3.1	ug/L	25402	Standard
|	**Cu -1**	65	8770.7	0.9	**2.0000**	0.036	1.8	ug/L	479	Standard
|	**Zn**	66	5127.6	1.6				ug/L	604	Standard
|	**Zn -1**	67	857.4	1.5				ug/L	115	Standard
|	**Zn -2**	68	3862.5	1.8				ug/L	605	Standard
|	**As**	75	17765.6	1.1	**2.0000**	0.123	6.2	ug/L	12853	Standard
|	**As-1**	75	4966.4	2.5	**2.1255**	0.036	1.7	ug/L	-4	Standard
|	**Se**	77	406.3	4.5	**2.0000**	0.137	6.9	ug/L	98	Standard
|	**Se -1**	78	13944.5	0.9				ug/L	12897	Standard
|	**Br**	79	2346.9	1.4				ug/L	2838	Standard
|	**Se -2**	82	470.0	8.1	**2.0000**	0.133	6.7	ug/L	35	Standard
	Kr	83	31.3	12.1				ug/L	29	Standard
	Y	89	618871.3	2.4				ug/L	601935	Standard
|	**Rh**	103	110548.3	2.7				ug/L	108502	Standard
|	**Ni -3**	58	3758.9	3.0	**2.0000**	0.060	3.0	ug/L	68	KED
|	**Ni -4**	60	1699.8	1.8	**2.0000**	0.055	2.8	ug/L	30	KED
|	**Ni -5**	62	255.0	7.6	**2.0000**	0.129	6.5	ug/L	9	KED
|	**Cu -2**	63	4311.3	0.8	**2.0000**	0.035	1.8	ug/L	172	KED
|	**Cu -3**	65	2018.5	1.6	**2.0000**	0.031	1.6	ug/L	89	KED
|	**Zn -3**	66	497.3	1.7				ug/L	65	KED
|	**Zn -4**	67	84.7	3.0				ug/L	10	KED
|	**Zn -5**	68	388.3	6.6				ug/L	39	KED
|	**As-2**	75	342.0	4.1	**2.0000**	0.060	3.0	ug/L	1	KED
	Y-1	89	52806.8	1.0				ug/L	50921	KED
	Rh-1	103	33753.5	0.6				ug/L	32421	KED
| >	**Ge**	72	409168.0	1.7				ug/L	400120	Standard
| >	**In**	115	377709.0	2.3				ug/L	376660	Standard
| >	**Ge-1**	72	22511.4	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
|>	Ge	72
|>	In	115
|>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Saturday, June 01, 2024 12:36:52
Report Date/Time: Saturday, June 01, 2024 12:39:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 4.008

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	41433.7	1.3	**5.0000**	0.056	1.1	ug/L	-4073	Standard
|	**Ni -1**	60	18427.2	2.3	**4.7528**	0.016	0.3	ug/L	155	Standard
|	**Ni -2**	62	25155.1	1.1	**4.8168**	0.658	13.7	ug/L	26155	Standard
|	**Cu**	63	62256.4	0.9	**4.7601**	0.099	2.1	ug/L	25402	Standard
|	**Cu -1**	65	19255.6	1.9	**4.7758**	0.045	0.9	ug/L	479	Standard
|	**Zn**	66	11003.6	2.8	**5.0000**	0.033	0.7	ug/L	604	Standard
|	**Zn -1**	67	1811.4	3.4	**5.0000**	0.224	4.5	ug/L	115	Standard
|	**Zn -2**	68	7974.6	3.1	**5.0000**	0.082	1.6	ug/L	605	Standard
|	**As**	75	23458.3	2.1	**4.8563**	0.064	1.3	ug/L	12853	Standard
|	**As-1**	75	10620.7	1.7	**4.8079**	0.030	0.6	ug/L	-4	Standard
|	**Se**	77	759.0	2.1	**4.7180**	0.160	3.4	ug/L	98	Standard
|	**Se -1**	78	15198.1	2.0	**5.0000**	0.335	6.7	ug/L	12897	Standard
|	**Br**	79	2323.5	1.0				ug/L	2838	Standard
|	**Se -2**	82	948.7	1.0	**4.6586**	0.155	3.3	ug/L	35	Standard
	Kr	83	30.7	34.6				ug/L	29	Standard
	Y	89	590427.1	1.3				ug/L	601935	Standard
|	**Rh**	103	106754.6	3.0				ug/L	108502	Standard
|	**Ni -3**	58	8363.9	1.2	**4.7774**	0.061	1.3	ug/L	68	KED
|	**Ni -4**	60	3589.5	1.6	**4.6531**	0.085	1.8	ug/L	30	KED
|	**Ni -5**	62	537.0	9.8	**4.6407**	0.455	9.8	ug/L	9	KED
|	**Cu -2**	63	9195.6	1.2	**4.6890**	0.042	0.9	ug/L	172	KED
|	**Cu -3**	65	4429.7	0.5	**4.7531**	0.013	0.3	ug/L	89	KED
|	**Zn -3**	66	1073.0	4.5	**5.0000**	0.236	4.7	ug/L	65	KED
|	**Zn -4**	67	186.0	12.9	**5.0000**	0.703	14.1	ug/L	10	KED
|	**Zn -5**	68	818.4	2.3	**5.0000**	0.146	2.9	ug/L	39	KED
|	**As-2**	75	751.0	3.7	**4.7444**	0.187	3.9	ug/L	1	KED
	Y-1	89	51637.2	0.9				ug/L	50921	KED
	Rh-1	103	32882.5	1.0				ug/L	32421	KED
|>	**Ge**	72	399362.0	2.3				ug/L	400120	Standard
|>	**In**	115	370851.8	1.8				ug/L	376660	Standard
|>	**Ge-1**	72	22056.3	0.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Saturday, June 01, 2024 12:40:42
Report Date/Time: Saturday, June 01, 2024 12:43:02
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 5.009

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	205007.3	1.9	**20.8134**	0.449	2.2	ug/L	-4073	Standard
|	**Ni -1**	60	83765.3	2.5	**20.4075**	0.311	1.5	ug/L	155	Standard
|	**Ni -2**	62	35368.1	1.7	**16.2652**	0.968	6.0	ug/L	26155	Standard
|	**Cu**	63	208841.5	2.1	**19.9439**	0.378	1.9	ug/L	25402	Standard
|	**Cu -1**	65	86946.5	2.3	**20.4149**	0.318	1.6	ug/L	479	Standard
|	**Zn**	66	48891.2	3.3	**20.7403**	0.262	1.3	ug/L	604	Standard
|	**Zn -1**	67	8140.7	3.5	**20.8497**	0.058	0.3	ug/L	115	Standard
|	**Zn -2**	68	35072.4	4.3	**20.8195**	0.246	1.2	ug/L	605	Standard
|	**As**	75	60836.7	3.0	**20.3924**	0.187	0.9	ug/L	12853	Standard
|	**As-1**	75	48534.0	2.9	**20.6906**	0.216	1.0	ug/L	-4	Standard
|	**Se**	77	3323.1	3.4	**21.0891**	0.145	0.7	ug/L	98	Standard
|	**Se -1**	78	23102.0	2.9	**19.3937**	0.462	2.4	ug/L	12897	Standard
|	**Br**	79	2345.9	3.5				ug/L	2838	Standard
|	**Se -2**	82	4271.6	2.8	**20.3515**	0.591	2.9	ug/L	35	Standard
	Kr	83	28.3	27.0				ug/L	29	Standard
	Y	89	617573.7	2.3				ug/L	601935	Standard
|	**Rh**	103	112569.2	1.9				ug/L	108502	Standard
|	**Ni -3**	58	37768.8	2.6	**20.0312**	0.447	2.2	ug/L	68	KED
|	**Ni -4**	60	16507.9	1.8	**19.9218**	0.310	1.6	ug/L	30	KED
|	**Ni -5**	62	2498.2	1.4	**19.9998**	0.321	1.6	ug/L	9	KED
|	**Cu -2**	63	42190.6	2.0	**20.0277**	0.359	1.8	ug/L	172	KED
|	**Cu -3**	65	20019.7	0.9	**20.0047**	0.097	0.5	ug/L	89	KED
|	**Zn -3**	66	5030.9	2.7	**20.8720**	0.469	2.2	ug/L	65	KED
|	**Zn -4**	67	836.0	5.5	**20.5852**	1.187	5.8	ug/L	10	KED
|	**Zn -5**	68	3712.8	1.6	**20.7765**	0.233	1.1	ug/L	39	KED
|	**As-2**	75	3362.1	2.7	**19.8398**	0.620	3.1	ug/L	1	KED
	Y-1	89	54210.7	0.2				ug/L	50921	KED
	Rh-1	103	34742.5	1.0				ug/L	32421	KED
|>	**Ge**	72	417498.6	3.3				ug/L	400120	Standard
|>	**In**	115	387879.7	1.3				ug/L	376660	Standard
|>	**Ge-1**	72	23705.0	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
|>	Ge	72
|>	In	115
|>	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Saturday, June 01, 2024 12:44:33
Report Date/Time: Saturday, June 01, 2024 12:46:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 6.010

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	394222.8	2.3	**40.4541**	0.270	0.7	ug/L	-4073	Standard
|	**Ni -1**	60	160972.3	2.7	**40.2641**	0.143	0.4	ug/L	155	Standard
|	**Ni -2**	62	46922.6	1.2	**33.8621**	0.764	2.3	ug/L	26155	Standard
|	**Cu**	63	380134.3	2.1	**39.4468**	0.359	0.9	ug/L	25402	Standard
|	**Cu -1**	65	164751.8	3.1	**39.8900**	0.567	1.4	ug/L	479	Standard
|	**Zn**	66	92960.3	2.7	**40.4399**	0.420	1.0	ug/L	604	Standard
|	**Zn -1**	67	15425.7	1.9	**40.4926**	0.206	0.5	ug/L	115	Standard
|	**Zn -2**	68	66165.6	2.8	**40.4222**	0.233	0.6	ug/L	605	Standard
|	**As**	75	106560.2	1.8	**40.9667**	0.260	0.6	ug/L	12853	Standard
|	**As-1**	75	94218.9	1.6	**41.0187**	0.329	0.8	ug/L	-4	Standard
|	**Se**	77	6399.1	5.8	**41.6648**	1.551	3.7	ug/L	98	Standard
|	**Se -1**	78	33236.3	2.0	**40.6736**	0.759	1.9	ug/L	12897	Standard
|	**Br**	79	2363.5	4.3				ug/L	2838	Standard
|	**Se -2**	82	8248.0	1.6	**40.4307**	0.953	2.4	ug/L	35	Standard
	Kr	83	32.3	15.6				ug/L	29	Standard
	Y	89	602648.0	2.2				ug/L	601935	Standard
|	**Rh**	103	108959.1	2.5				ug/L	108502	Standard
|	**Ni -3**	58	70983.1	1.6	**39.8496**	0.306	0.8	ug/L	68	KED
|	**Ni -4**	60	31156.3	2.3	**39.8074**	0.306	0.8	ug/L	30	KED
|	**Ni -5**	62	4730.8	1.6	**40.0013**	0.500	1.2	ug/L	9	KED
|	**Cu -2**	63	78884.9	0.2	**39.7146**	0.647	1.6	ug/L	172	KED
|	**Cu -3**	65	37473.8	0.5	**39.7149**	0.929	2.3	ug/L	89	KED
|	**Zn -3**	66	9196.6	0.6	**40.2579**	0.792	2.0	ug/L	65	KED
|	**Zn -4**	67	1543.8	2.8	**40.2021**	1.865	4.6	ug/L	10	KED
|	**Zn -5**	68	6969.4	1.3	**40.8111**	0.636	1.6	ug/L	39	KED
|	**As-2**	75	6379.1	1.8	**39.8406**	0.189	0.5	ug/L	1	KED
	Y-1	89	52238.0	1.5				ug/L	50921	KED
	Rh-1	103	33559.7	2.3				ug/L	32421	KED
|>	**Ge**	72	405397.4	2.4				ug/L	400120	Standard
|>	**In**	115	378010.8	2.9				ug/L	376660	Standard
|>	**Ge-1**	72	22429.9	1.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Saturday, June 01, 2024 12:48:23
Report Date/Time: Saturday, June 01, 2024 12:50:43
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\Standard 7.011

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	872263.4	1.6	**97.1071**	1.576	1.6	ug/L	-4073	Standard
|	**Ni -1**	60	348527.0	1.7	**95.1976**	1.449	1.5	ug/L	155	Standard
|	**Ni -2**	62	75218.5	1.6	**82.7645**	1.535	1.9	ug/L	26155	Standard
|	**Cu**	63	795837.2	1.7	**93.3736**	1.280	1.4	ug/L	25402	Standard
|	**Cu -1**	65	352339.4	1.0	**93.6258**	0.561	0.6	ug/L	479	Standard
|	**Zn**	66	199103.2	1.9	**95.4824**	1.495	1.6	ug/L	604	Standard
|	**Zn -1**	67	33548.0	0.7	**96.5870**	0.690	0.7	ug/L	115	Standard
|	**Zn -2**	68	143553.3	2.4	**96.4309**	2.232	2.3	ug/L	605	Standard
|	**As**	75	217079.2	1.7	**97.3403**	1.393	1.4	ug/L	12853	Standard
|	**As-1**	75	206602.2	1.9	**97.4061**	1.498	1.5	ug/L	-4	Standard
|	**Se**	77	13584.8	2.3	**96.9197**	1.794	1.9	ug/L	98	Standard
|	**Se -1**	78	56731.8	1.9	**97.3209**	1.950	2.0	ug/L	12897	Standard
|	**Br**	79	2341.9	1.1				ug/L	2838	Standard
|	**Se -2**	82	18233.6	2.8	**97.1856**	2.382	2.5	ug/L	35	Standard
	Kr	83	35.3	36.1				ug/L	29	Standard
	Y	89	562417.5	1.3				ug/L	601935	Standard
|	**Rh**	103	101112.7	2.2				ug/L	108502	Standard
|	**Ni -3**	58	156586.8	1.3	**95.0426**	2.025	2.1	ug/L	68	KED
|	**Ni -4**	60	67808.6	1.5	**93.9785**	2.521	2.7	ug/L	30	KED
|	**Ni -5**	62	10291.7	2.0	**94.2804**	2.981	3.2	ug/L	9	KED
|	**Cu -2**	63	171015.0	1.5	**93.5266**	2.458	2.6	ug/L	172	KED
|	**Cu -3**	65	80810.9	0.9	**93.1304**	1.995	2.1	ug/L	89	KED
|	**Zn -3**	66	20084.8	1.2	**95.7338**	2.011	2.1	ug/L	65	KED
|	**Zn -4**	67	3263.7	1.6	**93.5364**	2.384	2.5	ug/L	10	KED
|	**Zn -5**	68	15116.0	0.7	**96.2705**	1.186	1.2	ug/L	39	KED
|	**As-2**	75	13993.2	0.5	**94.6081**	1.042	1.1	ug/L	1	KED
	Y-1	89	48435.0	0.3				ug/L	50921	KED
	Rh-1	103	31417.5	0.5				ug/L	32421	KED
| >	**Ge**	72	376753.1	0.5				ug/L	400120	Standard
| >	**In**	115	354342.9	1.6				ug/L	376660	Standard
| >	**Ge-1**	72	21062.9	1.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82
	Kr	83
	Y	89
|	Rh	103
|	Ni -3	58
|	Ni -4	60
|	Ni -5	62
|	Cu -2	63
|	Cu -3	65
|	Zn -3	66
|	Zn -4	67
|	Zn -5	68
|	As-2	75
	Y-1	89
	Rh-1	103
| >	Ge	72
| >	In	115
| >	Ge-1	72

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, June 01, 2024 12:53:03
Report Date/Time: Saturday, June 01, 2024 12:55:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 1.012

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	451674.1	2.1	**49.2633**	0.776	1.6	ug/L	-4073	Standard
|	**Ni -1**	60	183605.9	1.6	**48.9471**	0.399	0.8	ug/L	155	Standard
|	**Ni -2**	62	49239.4	1.0	**42.2734**	0.737	1.7	ug/L	26155	Standard
|	**Cu**	63	426238.6	1.5	**47.7774**	0.100	0.2	ug/L	25402	Standard
|	**Cu -1**	65	185561.4	2.0	**48.1122**	0.296	0.6	ug/L	479	Standard
|	**Zn**	66	106007.3	1.9	**49.5045**	0.230	0.5	ug/L	604	Standard
|	**Zn -1**	67	17722.7	2.1	**49.6847**	0.306	0.6	ug/L	115	Standard
|	**Zn -2**	68	75890.4	1.5	**49.5846**	0.066	0.1	ug/L	605	Standard
|	**As**	75	120812.9	1.8	**50.2635**	0.205	0.4	ug/L	12853	Standard
|	**As-1**	75	109568.2	1.8	**50.4207**	0.173	0.3	ug/L	-4	Standard
|	**Se**	77	7495.6	1.3	**51.9128**	0.108	0.2	ug/L	98	Standard
|	**Se -1**	78	36000.3	1.5	**50.4130**	0.226	0.4	ug/L	12897	Standard
|	**Br**	79	2079.2	1.4				ug/L	2838	Standard
|	**Se -2**	82	9767.0	1.3	**50.7418**	0.192	0.4	ug/L	35	Standard
	Kr	83	32.3	23.6				ug/L	29	Standard
	Y	89	583853.4	2.7				ug/L	601935	Standard
|	**Rh**	103	104101.8	3.0				ug/L	108502	Standard
|	**Ni -3**	58	79822.7	0.6	**48.5963**	0.219	0.5	ug/L	68	KED
|	**Ni -4**	60	34937.7	1.0	**48.5663**	0.402	0.8	ug/L	30	KED
|	**Ni -5**	62	5280.3	0.4	**48.5243**	0.368	0.8	ug/L	9	KED
|	**Cu -2**	63	88845.5	1.4	**48.7225**	0.464	1.0	ug/L	172	KED
|	**Cu -3**	65	41598.8	1.3	**48.0760**	0.604	1.3	ug/L	89	KED
|	**Zn -3**	66	10405.8	1.2	**49.6595**	0.311	0.6	ug/L	65	KED
|	**Zn -4**	67	1765.4	2.0	**50.6271**	0.777	1.5	ug/L	10	KED
|	**Zn -5**	68	7852.5	1.1	**50.0347**	0.821	1.6	ug/L	39	KED
|	**As-2**	75	7337.9	2.6	**49.7704**	1.537	3.1	ug/L	1	KED
	Y-1	89	49328.7	0.8				ug/L	50921	KED
	Rh-1	103	31633.7	1.3				ug/L	32421	KED
\>	**Ge**	72	385981.6	1.5				ug/L	400120	Standard
\>	**In**	115	363968.6	1.5				ug/L	376660	Standard
\>	**Ge-1**	72	20995.4	0.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	98.527	
|	Ni -1	60	97.894	
|	Ni -2	62	84.547	
|	Cu	63	95.555	
|	Cu -1	65	96.224	
|	Zn	66	99.009	
|	Zn -1	67	99.369	
|	Zn -2	68	99.169	
|	As	75	100.527	
|	As-1	75	100.841	
|	Se	77	103.826	
|	Se -1	78	100.826	
|	Br	79		

|	Se -2	82	101.484	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.193	
|	Ni -4	60	97.133	
|	Ni -5	62	97.049	
|	Cu -2	63	97.445	
|	Cu -3	65	96.152	
|	Zn -3	66	99.319	
|	Zn -4	67	101.254	
|	Zn -5	68	100.069	
|	As-2	75	99.541	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		96.467
| >	In	115		96.630
| >	Ge-1	72		96.002

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, June 01, 2024 12:57:44
Report Date/Time: Saturday, June 01, 2024 13:00:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 2.013

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3501.8	2.4	**-0.0051**	0.009	183.6	ug/L	-4073	Standard
|	**Ni -1**	60	168.3	11.7	**0.0336**	0.005	15.8	ug/L	155	Standard
|	**Ni -2**	62	19513.7	1.2	**-1.4875**	0.632	42.5	ug/L	26155	Standard
|	**Cu**	63	18006.3	0.8	**-0.0997**	0.036	35.9	ug/L	25402	Standard
|	**Cu -1**	65	458.3	3.4	**0.0846**	0.003	3.1	ug/L	479	Standard
|	**Zn**	66	643.3	6.0	**0.0550**	0.019	34.9	ug/L	604	Standard
|	**Zn -1**	67	107.3	1.4	**0.0565**	0.007	11.7	ug/L	115	Standard
|	**Zn -2**	68	645.0	1.2	**0.0546**	0.003	4.6	ug/L	605	Standard
|	**As**	75	12693.1	1.5	**0.0570**	0.038	66.3	ug/L	12853	Standard
|	**As-1**	75	52.3	20.4	**0.0193**	0.005	26.1	ug/L	-4	Standard
|	**Se**	77	87.0	10.0	**-0.0277**	0.061	220.3	ug/L	98	Standard
|	**Se -1**	78	12722.0	1.9	**0.5812**	0.217	37.3	ug/L	12897	Standard
|	**Br**	79	1872.5	2.0				ug/L	2838	Standard
|	**Se -2**	82	50.7	33.4	**0.0995**	0.084	84.6	ug/L	35	Standard
	Kr	83	28.3	16.7				ug/L	29	Standard
	Y	89	599543.2	3.3				ug/L	601935	Standard
|	**Rh**	103	107622.2	3.7				ug/L	108502	Standard
|	**Ni -3**	58	71.4	10.8	**0.0379**	0.004	10.7	ug/L	68	KED
|	**Ni -4**	60	32.0	18.8	**0.0422**	0.008	18.0	ug/L	30	KED
|	**Ni -5**	62	6.0	57.7	**0.0692**	0.031	44.4	ug/L	9	KED
|	**Cu -2**	63	190.0	6.7	**0.0781**	0.006	7.9	ug/L	172	KED
|	**Cu -3**	65	88.7	21.5	**0.0781**	0.023	29.1	ug/L	89	KED
|	**Zn -3**	66	71.0	18.4	**0.1441**	0.059	40.6	ug/L	65	KED
|	**Zn -4**	67	9.7	57.0	**0.0089**	0.155	1741.6	ug/L	10	KED
|	**Zn -5**	68	51.0	7.1	**0.0359**	0.025	70.9	ug/L	39	KED
|	**As-2**	75	3.0	33.3	**0.0162**	0.006	39.4	ug/L	1	KED
	Y-1	89	51022.3	1.3				ug/L	50921	KED
	Rh-1	103	32139.4	0.9				ug/L	32421	KED
| >	**Ge**	72	392763.8	1.1				ug/L	400120	Standard
| >	**In**	115	366837.7	2.9				ug/L	376660	Standard
| >	**Ge-1**	72	21500.2	1.2				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	98.162
>	In	115	97.392
>	Ge-1	72	98.310

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 13:01:35
Report Date/Time: Saturday, June 01, 2024 13:03:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	365531.7	1.3	**38.8806**	0.279	0.7	ug/L	-4073	Standard
|	**Ni -1**	60	150006.9	1.7	**38.9171**	0.112	0.3	ug/L	155	Standard
|	**Ni -2**	62	41066.6	0.9	**28.7778**	0.658	2.3	ug/L	26155	Standard
|	**Cu**	63	351572.7	2.0	**37.9229**	0.095	0.3	ug/L	25402	Standard
|	**Cu -1**	65	154798.6	0.9	**39.0614**	0.401	1.0	ug/L	479	Standard
|	**Zn**	66	87507.6	1.9	**39.7248**	0.042	0.1	ug/L	604	Standard
|	**Zn -1**	67	14543.7	2.5	**39.6310**	0.278	0.7	ug/L	115	Standard
|	**Zn -2**	68	62673.9	1.5	**39.7843**	0.434	1.1	ug/L	605	Standard
|	**As**	75	101250.3	0.7	**39.9514**	0.793	2.0	ug/L	12853	Standard
|	**As-1**	75	89280.3	0.8	**39.9924**	0.725	1.8	ug/L	-4	Standard
|	**Se**	77	6068.0	3.6	**40.7567**	0.714	1.8	ug/L	98	Standard
|	**Se -1**	78	32012.8	1.4	**40.1423**	0.369	0.9	ug/L	12897	Standard
|	**Br**	79	1875.5	1.1				ug/L	2838	Standard
|	**Se -2**	82	7911.9	2.0	**39.9675**	0.178	0.4	ug/L	35	Standard
	Kr	83	30.0	6.7				ug/L	29	Standard
	Y	89	606595.3	1.4				ug/L	601935	Standard
|	**Rh**	103	107870.9	2.1				ug/L	108502	Standard
|	**Ni -3**	58	67599.8	0.5	**39.8508**	0.441	1.1	ug/L	68	KED
|	**Ni -4**	60	29128.0	0.5	**39.2083**	0.460	1.2	ug/L	30	KED
|	**Ni -5**	62	4295.3	0.7	**38.2300**	0.876	2.3	ug/L	9	KED
|	**Cu -2**	63	74122.5	0.8	**39.3583**	0.575	1.5	ug/L	172	KED
|	**Cu -3**	65	35185.9	0.7	**39.3777**	0.903	2.3	ug/L	89	KED
|	**Zn -3**	66	8808.0	1.9	**40.6660**	0.409	1.0	ug/L	65	KED
|	**Zn -4**	67	1414.7	0.4	**39.2302**	0.606	1.5	ug/L	10	KED
|	**Zn -5**	68	6517.5	0.4	**40.1594**	0.822	2.0	ug/L	39	KED
|	**As-2**	75	6049.9	0.9	**39.7325**	0.710	1.8	ug/L	1	KED
	Y-1	89	51319.0	0.8				ug/L	50921	KED
	Rh-1	103	32542.7	0.9				ug/L	32421	KED
| >	**Ge**	72	396611.5	2.0				ug/L	400120	Standard
| >	**In**	115	372370.0	1.9				ug/L	376660	Standard
| >	**Ge-1**	72	21684.4	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	97.201	
|	Ni -1	60	97.293	
|	Ni -2	62	71.944	
|	Cu	63	94.807	
|	Cu -1	65	97.653	
|	Zn	66	99.312	
|	Zn -1	67	99.077	
|	Zn -2	68	99.461	
|	As	75	99.878	
|	As-1	75	99.981	
|	Se	77	101.892	
|	Se -1	78	100.356	
|	Br	79		

|	Se -2	82	99.919	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	99.627	
|	Ni -4	60	98.021	
|	Ni -5	62	95.575	
|	Cu -2	63	98.396	
|	Cu -3	65	98.444	
|	Zn -3	66	101.665	
|	Zn -4	67	98.075	
|	Zn -5	68	100.398	
|	As-2	75	99.331	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		99.123
|>	In	115		98.861
|>	Ge-1	72		99.153

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 13:06:16
Report Date/Time: Saturday, June 01, 2024 13:08:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	200828.6	1.4	**20.5640**	0.503	2.4	ug/L	-4073	Standard
|	**Ni -1**	60	82228.0	1.6	**20.3564**	0.423	2.1	ug/L	155	Standard
|	**Ni -2**	62	32288.8	1.0	**14.2593**	1.162	8.1	ug/L	26155	Standard
|	**Cu**	63	200814.3	0.9	**19.6904**	0.596	3.0	ug/L	25402	Standard
|	**Cu -1**	65	83569.1	1.4	**20.1104**	0.450	2.2	ug/L	479	Standard
|	**Zn**	66	47589.8	2.0	**20.5027**	0.406	2.0	ug/L	604	Standard
|	**Zn -1**	67	7950.2	2.1	**20.5645**	0.528	2.6	ug/L	115	Standard
|	**Zn -2**	68	33892.9	3.2	**20.3506**	0.221	1.1	ug/L	605	Standard
|	**As**	75	59971.8	2.1	**20.0902**	0.395	2.0	ug/L	12853	Standard
|	**As-1**	75	47745.8	2.6	**20.4031**	0.278	1.4	ug/L	-4	Standard
|	**Se**	77	3273.7	2.0	**20.6879**	0.509	2.5	ug/L	98	Standard
|	**Se -1**	78	23115.4	2.2	**19.6098**	1.462	7.5	ug/L	12897	Standard
|	**Br**	79	1881.1	1.3				ug/L	2838	Standard
|	**Se -2**	82	4307.0	1.5	**20.6912**	0.469	2.3	ug/L	35	Standard
	Kr	83	31.0	11.6				ug/L	29	Standard
	Y	89	622960.1	1.8				ug/L	601935	Standard
|	**Rh**	103	112496.6	1.7				ug/L	108502	Standard
|	**Ni -3**	58	36619.1	0.6	**20.3036**	0.062	0.3	ug/L	68	KED
|	**Ni -4**	60	16040.7	1.1	**20.3109**	0.364	1.8	ug/L	30	KED
|	**Ni -5**	62	2424.9	1.8	**20.3075**	0.481	2.4	ug/L	9	KED
|	**Cu -2**	63	40421.1	1.6	**20.1792**	0.457	2.3	ug/L	172	KED
|	**Cu -3**	65	19266.7	0.7	**20.2689**	0.181	0.9	ug/L	89	KED
|	**Zn -3**	66	4761.1	0.5	**20.5873**	0.154	0.7	ug/L	65	KED
|	**Zn -4**	67	767.4	1.2	**19.8868**	0.354	1.8	ug/L	10	KED
|	**Zn -5**	68	3592.5	0.5	**20.6834**	0.095	0.5	ug/L	39	KED
|	**As-2**	75	3216.4	1.5	**19.8654**	0.153	0.8	ug/L	1	KED
	Y-1	89	53651.6	0.5				ug/L	50921	KED
	Rh-1	103	34478.6	1.1				ug/L	32421	KED
| >	**Ge**	72	415731.2	3.7				ug/L	400120	Standard
| >	**In**	115	392312.1	1.6				ug/L	376660	Standard
| >	**Ge-1**	72	23050.6	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	102.820	
|	Ni -1	60	101.782	
|	Ni -2	62	71.296	
|	Cu	63	98.452	
|	Cu -1	65	100.552	
|	Zn	66	102.513	
|	Zn -1	67	102.823	
|	Zn -2	68	101.753	
|	As	75	100.451	
|	As-1	75	102.016	
|	Se	77	103.439	
|	Se -1	78	98.049	
|	Br	79		

|	Se -2	82	103.456	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	101.518	
|	Ni -4	60	101.554	
|	Ni -5	62	101.537	
|	Cu -2	63	100.896	
|	Cu -3	65	101.344	
|	Zn -3	66	102.937	
|	Zn -4	67	99.434	
|	Zn -5	68	103.417	
|	As-2	75	99.327	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		103.902
| >	In	115		104.155
| >	Ge-1	72		105.399

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 13:10:56
Report Date/Time: Saturday, June 01, 2024 13:13:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3938.1	4.0	**-0.0384**	0.008	20.1	ug/L	-4073	Standard
|	**Ni -1**	60	168.3	10.2	**0.0323**	0.005	16.1	ug/L	155	Standard
|	**Ni -2**	62	19730.6	1.0	**-2.0515**	0.473	23.1	ug/L	26155	Standard
|	**Cu**	63	18496.0	0.5	**-0.1090**	0.049	45.4	ug/L	25402	Standard
|	**Cu -1**	65	475.3	6.4	**0.0853**	0.009	10.8	ug/L	479	Standard
|	**Zn**	66	712.0	5.4	**0.0763**	0.011	14.3	ug/L	604	Standard
|	**Zn -1**	67	121.3	10.5	**0.0845**	0.030	35.3	ug/L	115	Standard
|	**Zn -2**	68	675.3	1.0	**0.0608**	0.011	18.3	ug/L	605	Standard
|	**As**	75	12664.6	0.4	**-0.1335**	0.094	70.2	ug/L	12853	Standard
|	**As-1**	75	10.5	673.3	**0.0005**	0.031	6461.2	ug/L	-4	Standard
|	**Se**	77	80.3	18.7	**-0.0905**	0.103	113.6	ug/L	98	Standard
|	**Se -1**	78	12705.6	0.8	**-0.2680**	0.366	136.7	ug/L	12897	Standard
|	**Br**	79	1808.4	4.2				ug/L	2838	Standard
|	**Se -2**	82	39.0	18.5	**0.0341**	0.036	104.4	ug/L	35	Standard
	Kr	83	30.0	26.0				ug/L	29	Standard
	Y	89	611161.6	1.1				ug/L	601935	Standard
|	**Rh**	103	110678.8	1.5				ug/L	108502	Standard
|	**Ni -3**	58	80.5	7.3	**0.0403**	0.003	6.4	ug/L	68	KED
|	**Ni -4**	60	37.3	10.1	**0.0464**	0.006	11.9	ug/L	30	KED
|	**Ni -5**	62	7.3	61.5	**0.0774**	0.038	49.7	ug/L	9	KED
|	**Cu -2**	63	192.3	12.5	**0.0731**	0.013	18.0	ug/L	172	KED
|	**Cu -3**	65	91.7	7.9	**0.0748**	0.006	8.2	ug/L	89	KED
|	**Zn -3**	66	61.0	7.5	**0.0797**	0.016	20.4	ug/L	65	KED
|	**Zn -4**	67	11.3	48.6	**0.0356**	0.145	407.2	ug/L	10	KED
|	**Zn -5**	68	45.3	15.5	**-0.0174**	0.041	234.9	ug/L	39	KED
|	**As-2**	75	2.0	50.0	**0.0088**	0.006	71.2	ug/L	1	KED
	Y-1	89	53297.9	0.6				ug/L	50921	KED
	Rh-1	103	34427.4	0.7				ug/L	32421	KED
| >	**Ge**	72	405337.9	2.1				ug/L	400120	Standard
| >	**In**	115	388937.2	1.4				ug/L	376660	Standard
| >	**Ge-1**	72	22927.4	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	101.304
|>	In	115	103.259
|>	Ge-1	72	104.836

Quantitative Analysis - Summary Report

Sample ID: MB0601WH1 2X

Sample Date/Time: Saturday, June 01, 2024 13:20:40
Report Date/Time: Saturday, June 01, 2024 13:23:00
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\MB0601WH1 2X.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5520.9	1.2	**-0.3534**	0.008	2.2	ug/L	-4073	Standard
|	**Ni -1**	60	139.3	4.0	**0.0343**	0.002	5.1	ug/L	155	Standard
|	**Ni -2**	62	22491.4	0.4	**10.0796**	0.219	2.2	ug/L	26155	Standard
|	**Cu**	63	19519.0	0.5	**0.5851**	0.011	1.8	ug/L	25402	Standard
|	**Cu -1**	65	290.7	5.0	**0.0587**	0.005	7.7	ug/L	479	Standard
|	**Zn**	66	634.7	1.8	**0.1175**	0.007	6.1	ug/L	604	Standard
|	**Zn -1**	67	2978.6	1.7	**9.8800**	0.172	1.7	ug/L	115	Standard
|	**Zn -2**	68	890.7	1.1	**0.3444**	0.008	2.2	ug/L	605	Standard
|	**As**	75	11807.7	1.9	**0.8759**	0.115	13.2	ug/L	12853	Standard
|	**As-1**	75	140.6	142.0	**0.0736**	0.111	150.4	ug/L	-4	Standard
|	**Se**	77	6223.4	1.1	**51.9839**	0.643	1.2	ug/L	98	Standard
|	**Se -1**	78	11723.1	2.4	**4.0531**	0.695	17.1	ug/L	12897	Standard
|	**Br**	79	1794.1	4.1				ug/L	2838	Standard
|	**Se -2**	82	39.3	25.6	**0.0877**	0.063	71.8	ug/L	35	Standard
	Kr	83	45.7	18.6				ug/L	29	Standard
	Y	89	469983.7	2.5				ug/L	601935	Standard
|	**Rh**	103	82032.5	1.1				ug/L	108502	Standard
|	**Ni -3**	58	81.4	9.2	**0.0378**	0.004	10.7	ug/L	68	KED
|	**Ni -4**	60	33.0	10.5	**0.0380**	0.004	10.5	ug/L	30	KED
|	**Ni -5**	62	10.7	27.1	**0.0993**	0.022	22.5	ug/L	9	KED
|	**Cu -2**	63	142.3	9.6	**0.0431**	0.007	16.4	ug/L	172	KED
|	**Cu -3**	65	69.3	11.0	**0.0463**	0.008	17.4	ug/L	89	KED
|	**Zn -3**	66	70.7	16.3	**0.1011**	0.044	43.8	ug/L	65	KED
|	**Zn -4**	67	11.0	41.7	**0.0081**	0.115	1410.6	ug/L	10	KED
|	**Zn -5**	68	54.7	14.2	**0.0158**	0.043	270.3	ug/L	39	KED
|	**As-2**	75	10.3	24.4	**0.0562**	0.014	25.5	ug/L	1	KED
	Y-1	89	51483.9	0.8				ug/L	50921	KED
	Rh-1	103	36539.7	1.3				ug/L	32421	KED
| >	**Ge**	72	320032.0	0.2				ug/L	400120	Standard
| >	**In**	115	328843.6	1.3				ug/L	376660	Standard
| >	**Ge-1**	72	24583.5	1.1				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	79.984
| >	In	115	87.305
| >	Ge-1	72	112.409

Quantitative Analysis - Summary Report

Sample ID: SB0601WH1 2X

Sample Date/Time: Saturday, June 01, 2024 13:25:20
Report Date/Time: Saturday, June 01, 2024 13:27:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\SB0601WH1 2X.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	426250.9	1.6	**55.1953**	0.434	0.8	ug/L	-4073	Standard
|	**Ni -1**	60	170659.0	1.1	**54.0637**	0.712	1.3	ug/L	155	Standard
|	**Ni -2**	62	45394.7	0.7	**49.1240**	1.701	3.5	ug/L	26155	Standard
|	**Cu**	63	382139.2	1.3	**51.0462**	1.107	2.2	ug/L	25402	Standard
|	**Cu -1**	65	165136.6	2.1	**50.8753**	0.180	0.4	ug/L	479	Standard
|	**Zn**	66	90338.8	1.6	**50.1330**	0.421	0.8	ug/L	604	Standard
|	**Zn -1**	67	17596.8	1.1	**58.6714**	1.074	1.8	ug/L	115	Standard
|	**Zn -2**	68	63039.9	3.2	**48.9246**	0.606	1.2	ug/L	605	Standard
|	**As**	75	90982.4	1.9	**44.3753**	0.500	1.1	ug/L	12853	Standard
|	**As-1**	75	81253.0	2.2	**44.4256**	0.392	0.9	ug/L	-4	Standard
|	**Se**	77	11855.3	2.5	**98.0958**	0.185	0.2	ug/L	98	Standard
|	**Se -1**	78	28489.4	0.0	**45.8743**	1.727	3.8	ug/L	12897	Standard
|	**Br**	79	1763.1	2.4				ug/L	2838	Standard
|	**Se -2**	82	7403.3	0.5	**45.6926**	0.951	2.1	ug/L	35	Standard
	Kr	83	52.7	12.6				ug/L	29	Standard
	Y	89	484677.5	0.9				ug/L	601935	Standard
|	**Rh**	103	83394.4	1.5				ug/L	108502	Standard
|	**Ni -3**	58	103123.3	0.5	**53.7017**	0.457	0.9	ug/L	68	KED
|	**Ni -4**	60	44531.3	0.9	**52.9478**	0.324	0.6	ug/L	30	KED
|	**Ni -5**	62	6687.2	1.2	**52.5668**	1.090	2.1	ug/L	9	KED
|	**Cu -2**	63	111528.1	1.7	**52.3151**	0.599	1.1	ug/L	172	KED
|	**Cu -3**	65	51833.5	1.7	**51.2377**	0.605	1.2	ug/L	89	KED
|	**Zn -3**	66	11609.0	1.4	**47.3796**	0.504	1.1	ug/L	65	KED
|	**Zn -4**	67	1908.1	3.8	**46.7977**	2.196	4.7	ug/L	10	KED
|	**Zn -5**	68	8695.3	1.5	**47.3779**	1.084	2.3	ug/L	39	KED
|	**As-2**	75	7905.9	0.7	**45.8642**	0.716	1.6	ug/L	1	KED
	Y-1	89	51664.3	1.3				ug/L	50921	KED
	Rh-1	103	36711.5	1.8				ug/L	32421	KED
| >	**Ge**	72	324882.7	2.4				ug/L	400120	Standard
| >	**In**	115	338583.0	0.7				ug/L	376660	Standard
| >	**Ge-1**	72	24546.4	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	81.196
| >	In	115	89.891
| >	Ge-1	72	112.239

Quantitative Analysis - Summary Report

Sample ID: 05-300-05b 2X

Sample Date/Time: Saturday, June 01, 2024 13:30:44
Report Date/Time: Saturday, June 01, 2024 13:33:03
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05b 2X.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	32236.3	6.1	**4.3945**	0.256	5.8	ug/L	-4073	Standard
|	**Ni -1**	60	12868.5	1.1	**3.9486**	0.012	0.3	ug/L	155	Standard
|	**Ni -2**	62	25439.3	0.5	**13.3219**	0.271	2.0	ug/L	26155	Standard
|	**Cu**	63	48101.5	1.7	**4.3304**	0.084	2.0	ug/L	25402	Standard
|	**Cu -1**	65	12652.3	0.8	**3.7558**	0.037	1.0	ug/L	479	Standard
|	**Zn**	66	72739.7	1.6	**39.1484**	0.753	1.9	ug/L	604	Standard
|	**Zn -1**	67	14662.5	0.9	**47.4214**	0.141	0.3	ug/L	115	Standard
|	**Zn -2**	68	50487.1	1.8	**37.9748**	0.271	0.7	ug/L	605	Standard
|	**As**	75	16599.9	1.5	**3.1523**	0.050	1.6	ug/L	12853	Standard
|	**As-1**	75	3534.6	4.5	**1.8722**	0.065	3.5	ug/L	-4	Standard
|	**Se**	77	7761.4	2.4	**62.1399**	1.127	1.8	ug/L	98	Standard
|	**Se -1**	78	13171.1	0.7	**6.2981**	0.135	2.1	ug/L	12897	Standard
|	**Br**	79	5938.2	0.4				ug/L	2838	Standard
|	**Se -2**	82	61.0	5.7	**0.2075**	0.025	11.8	ug/L	35	Standard
	Kr	83	60.7	1.0				ug/L	29	Standard
	Y	89	512771.1	1.1				ug/L	601935	Standard
|	**Rh**	103	85463.6	2.2				ug/L	108502	Standard
|	**Ni -3**	58	10019.9	2.5	**5.2737**	0.052	1.0	ug/L	68	KED
|	**Ni -4**	60	3286.0	3.2	**3.9507**	0.066	1.7	ug/L	30	KED
|	**Ni -5**	62	511.0	5.5	**4.0764**	0.176	4.3	ug/L	9	KED
|	**Cu -2**	63	8358.1	2.4	**3.9449**	0.107	2.7	ug/L	172	KED
|	**Cu -3**	65	3880.5	0.9	**3.8605**	0.047	1.2	ug/L	89	KED
|	**Zn -3**	66	9059.2	1.4	**37.3638**	0.082	0.2	ug/L	65	KED
|	**Zn -4**	67	1481.1	4.4	**36.6769**	1.399	3.8	ug/L	10	KED
|	**Zn -5**	68	6627.9	2.3	**36.4647**	0.736	2.0	ug/L	39	KED
|	**As-2**	75	364.0	1.9	**2.1333**	0.075	3.5	ug/L	1	KED
	Y-1	89	51953.7	2.0				ug/L	50921	KED
	Rh-1	103	35739.0	1.8				ug/L	32421	KED
| >	**Ge**	72	334524.4	1.1				ug/L	400120	Standard
| >	**In**	115	338429.3	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24264.6	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	83.606
| >	In	115	89.850
| >	Ge-1	72	110.951

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bD 2X

Sample Date/Time: Saturday, June 01, 2024 13:44:29
Report Date/Time: Saturday, June 01, 2024 13:46:48
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bD 2X.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	32171.8	5.9	**4.6704**	0.211	4.5	ug/L	-4073	Standard
|	**Ni -1**	60	13880.1	2.2	**4.5634**	0.060	1.3	ug/L	155	Standard
|	**Ni -2**	62	23826.2	1.0	**13.4642**	0.874	6.5	ug/L	26155	Standard
|	**Cu**	63	44973.3	0.8	**4.3403**	0.015	0.3	ug/L	25402	Standard
|	**Cu -1**	65	12045.7	1.3	**3.8308**	0.055	1.4	ug/L	479	Standard
|	**Zn**	66	66147.8	1.4	**38.1244**	0.304	0.8	ug/L	604	Standard
|	**Zn -1**	67	13872.7	3.4	**48.0548**	1.144	2.4	ug/L	115	Standard
|	**Zn -2**	68	45200.7	1.6	**36.4049**	0.470	1.3	ug/L	605	Standard
|	**As**	75	15371.7	0.9	**3.0819**	0.169	5.5	ug/L	12853	Standard
|	**As-1**	75	3295.5	6.7	**1.8712**	0.144	7.7	ug/L	-4	Standard
|	**Se**	77	6868.0	1.5	**58.8737**	1.032	1.8	ug/L	98	Standard
|	**Se -1**	78	12164.5	0.7	**5.9529**	0.098	1.6	ug/L	12897	Standard
|	**Br**	79	4716.4	2.3				ug/L	2838	Standard
|	**Se -2**	82	52.7	8.6	**0.1797**	0.027	15.2	ug/L	35	Standard
	Kr	83	51.7	4.0				ug/L	29	Standard
	Y	89	482063.5	1.1				ug/L	601935	Standard
|	**Rh**	103	79861.6	1.4				ug/L	108502	Standard
|	**Ni -3**	58	10966.7	1.5	**5.6510**	0.126	2.2	ug/L	68	KED
|	**Ni -4**	60	3655.5	1.8	**4.3021**	0.044	1.0	ug/L	30	KED
|	**Ni -5**	62	540.0	2.4	**4.2189**	0.189	4.5	ug/L	9	KED
|	**Cu -2**	63	8291.1	3.0	**3.8285**	0.084	2.2	ug/L	172	KED
|	**Cu -3**	65	3869.2	1.2	**3.7668**	0.065	1.7	ug/L	89	KED
|	**Zn -3**	66	8863.4	3.1	**35.7624**	0.417	1.2	ug/L	65	KED
|	**Zn -4**	67	1423.4	1.5	**34.4979**	1.150	3.3	ug/L	10	KED
|	**Zn -5**	68	6579.8	1.9	**35.4206**	0.440	1.2	ug/L	39	KED
|	**As-2**	75	367.0	7.6	**2.1028**	0.124	5.9	ug/L	1	KED
	Y-1	89	52783.0	2.2				ug/L	50921	KED
	Rh-1	103	36396.0	1.6				ug/L	32421	KED
|>	**Ge**	72	312301.3	1.0				ug/L	400120	Standard
|>	**In**	115	329419.0	1.4				ug/L	376660	Standard
|>	**Ge-1**	72	24796.2	2.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	78.052
|>	In	115	87.458
|>	Ge-1	72	113.381

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bL 10X

Sample Date/Time: Saturday, June 01, 2024 13:49:07
Report Date/Time: Saturday, June 01, 2024 13:51:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bL 10X.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-1214.4	44.3	**0.2019**	0.073	36.3	ug/L	-4073	Standard
|	**Ni -1**	60	2937.0	2.0	**0.9758**	0.007	0.7	ug/L	155	Standard
|	**Ni -2**	62	20080.4	1.3	**7.4137**	0.739	10.0	ug/L	26155	Standard
|	**Cu**	63	22999.5	0.6	**1.2216**	0.057	4.7	ug/L	25402	Standard
|	**Cu -1**	65	2986.0	1.6	**0.9436**	0.008	0.9	ug/L	479	Standard
|	**Zn**	66	15618.9	0.9	**8.9905**	0.037	0.4	ug/L	604	Standard
|	**Zn -1**	67	3380.1	0.3	**11.7537**	0.121	1.0	ug/L	115	Standard
|	**Zn -2**	68	11003.6	2.6	**8.7577**	0.122	1.4	ug/L	605	Standard
|	**As**	75	12652.7	1.0	**1.6619**	0.036	2.2	ug/L	12853	Standard
|	**As-1**	75	816.5	6.3	**0.4692**	0.036	7.6	ug/L	-4	Standard
|	**Se**	77	1800.1	3.7	**15.2620**	0.417	2.7	ug/L	98	Standard
|	**Se -1**	78	11889.9	1.3	**5.8273**	0.172	2.9	ug/L	12897	Standard
|	**Br**	79	2323.2	1.0				ug/L	2838	Standard
|	**Se -2**	82	38.7	14.2	**0.0947**	0.039	41.6	ug/L	35	Standard
	Kr	83	39.0	16.8				ug/L	29	Standard
	Y	89	452141.2	2.0				ug/L	601935	Standard
|	**Rh**	103	79909.2	1.1				ug/L	108502	Standard
|	**Ni -3**	58	2027.0	2.3	**1.1281**	0.018	1.6	ug/L	68	KED
|	**Ni -4**	60	722.7	4.0	**0.9207**	0.029	3.2	ug/L	30	KED
|	**Ni -5**	62	108.3	11.4	**0.9293**	0.107	11.5	ug/L	9	KED
|	**Cu -2**	63	1911.8	2.5	**0.9393**	0.033	3.5	ug/L	172	KED
|	**Cu -3**	65	900.7	1.8	**0.9336**	0.013	1.4	ug/L	89	KED
|	**Zn -3**	66	1994.1	1.4	**8.5812**	0.202	2.4	ug/L	65	KED
|	**Zn -4**	67	323.3	6.1	**8.2887**	0.439	5.3	ug/L	10	KED
|	**Zn -5**	68	1424.1	0.4	**8.0918**	0.066	0.8	ug/L	39	KED
|	**As-2**	75	73.7	5.5	**0.4549**	0.023	5.1	ug/L	1	KED
	Y-1	89	48273.1	1.4				ug/L	50921	KED
	Rh-1	103	33484.2	0.9				ug/L	32421	KED
|>	**Ge**	72	306454.8	1.3				ug/L	400120	Standard
|>	**In**	115	314277.2	0.5				ug/L	376660	Standard
|>	**Ge-1**	72	22875.6	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	76.591
>	In	115	83.438
>	Ge-1	72	104.600

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bMS 2X

Sample Date/Time: Saturday, June 01, 2024 13:53:47
Report Date/Time: Saturday, June 01, 2024 13:56:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bMS 2X.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	444621.4	2.4	**64.1856**	0.577	0.9	ug/L	-4073	Standard
|	**Ni -1**	60	174981.0	1.6	**61.8575**	0.119	0.2	ug/L	155	Standard
|	**Ni -2**	62	45750.8	1.0	**58.9054**	0.426	0.7	ug/L	26155	Standard
|	**Cu**	63	391426.6	2.1	**58.6490**	0.440	0.7	ug/L	25402	Standard
|	**Cu -1**	65	166917.0	1.8	**57.3947**	0.213	0.4	ug/L	479	Standard
|	**Zn**	66	149659.1	2.3	**92.8839**	1.137	1.2	ug/L	604	Standard
|	**Zn -1**	67	27362.9	1.8	**101.9749**	0.417	0.4	ug/L	115	Standard
|	**Zn -2**	68	100585.2	1.4	**87.4219**	0.686	0.8	ug/L	605	Standard
|	**As**	75	89949.9	1.1	**49.5570**	0.638	1.3	ug/L	12853	Standard
|	**As-1**	75	80366.3	1.2	**49.0458**	0.718	1.5	ug/L	-4	Standard
|	**Se**	77	11696.5	0.6	**108.0960**	1.263	1.2	ug/L	98	Standard
|	**Se -1**	78	28086.6	1.3	**53.0500**	0.185	0.3	ug/L	12897	Standard
|	**Br**	79	4848.5	1.2				ug/L	2838	Standard
|	**Se -2**	82	7301.9	0.9	**50.3028**	0.370	0.7	ug/L	35	Standard
	Kr	83	53.3	7.6				ug/L	29	Standard
	Y	89	451231.6	2.1				ug/L	601935	Standard
|	**Rh**	103	73851.8	1.8				ug/L	108502	Standard
|	**Ni -3**	58	110844.3	1.2	**60.2405**	0.642	1.1	ug/L	68	KED
|	**Ni -4**	60	47351.4	0.9	**58.7631**	1.023	1.7	ug/L	30	KED
|	**Ni -5**	62	6979.4	1.8	**57.2453**	0.367	0.6	ug/L	9	KED
|	**Cu -2**	63	119433.9	1.1	**58.4752**	0.762	1.3	ug/L	172	KED
|	**Cu -3**	65	55424.6	0.8	**57.1867**	0.809	1.4	ug/L	89	KED
|	**Zn -3**	66	20062.4	1.8	**85.5982**	0.412	0.5	ug/L	65	KED
|	**Zn -4**	67	3293.4	3.6	**84.4560**	1.193	1.4	ug/L	10	KED
|	**Zn -5**	68	15053.6	2.3	**85.8070**	0.247	0.3	ug/L	39	KED
|	**As-2**	75	8414.1	1.7	**50.9366**	0.312	0.6	ug/L	1	KED
	Y-1	89	49217.3	1.6				ug/L	50921	KED
	Rh-1	103	34500.6	1.6				ug/L	32421	KED
\>	**Ge**	72	291083.7	1.5				ug/L	400120	Standard
\>	**In**	115	307919.3	1.9				ug/L	376660	Standard
\>	**Ge-1**	72	23523.4	2.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	72.749
| >	In	115	81.750
| >	Ge-1	72	107.561

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bMSD 2X

Sample Date/Time: Saturday, June 01, 2024 14:03:54
Report Date/Time: Saturday, June 01, 2024 14:06:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bMSD 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	445268.6	1.7	**63.5714**	1.147	1.8	ug/L	-4073	Standard
|	**Ni -1**	60	175052.7	1.0	**61.1930**	0.672	1.1	ug/L	155	Standard
|	**Ni -2**	62	44875.0	0.8	**56.2441**	0.720	1.3	ug/L	26155	Standard
|	**Cu**	63	390392.9	0.8	**57.8152**	0.465	0.8	ug/L	25402	Standard
|	**Cu -1**	65	166855.6	1.6	**56.7353**	0.962	1.7	ug/L	479	Standard
|	**Zn**	66	149294.8	0.8	**91.6263**	0.763	0.8	ug/L	604	Standard
|	**Zn -1**	67	27589.6	0.9	**101.6751**	1.070	1.1	ug/L	115	Standard
|	**Zn -2**	68	102634.7	0.1	**88.2088**	0.174	0.2	ug/L	605	Standard
|	**As**	75	90187.9	1.2	**49.0806**	0.690	1.4	ug/L	12853	Standard
|	**As-1**	75	80037.0	1.3	**48.2951**	0.644	1.3	ug/L	-4	Standard
|	**Se**	77	11819.2	1.5	**107.9996**	1.600	1.5	ug/L	98	Standard
|	**Se -1**	78	28532.5	1.0	**53.4077**	0.872	1.6	ug/L	12897	Standard
|	**Br**	79	4882.2	1.6				ug/L	2838	Standard
|	**Se -2**	82	7254.8	0.9	**49.4154**	0.492	1.0	ug/L	35	Standard
	Kr	83	55.3	10.0				ug/L	29	Standard
	Y	89	452745.5	2.0				ug/L	601935	Standard
|	**Rh**	103	74093.0	1.3				ug/L	108502	Standard
|	**Ni -3**	58	110211.6	1.8	**61.3557**	0.573	0.9	ug/L	68	KED
|	**Ni -4**	60	46185.2	1.3	**58.7090**	0.230	0.4	ug/L	30	KED
|	**Ni -5**	62	6858.3	1.9	**57.6290**	0.773	1.3	ug/L	9	KED
|	**Cu -2**	63	116411.0	0.4	**58.3869**	0.320	0.5	ug/L	172	KED
|	**Cu -3**	65	54257.8	1.0	**57.3462**	0.152	0.3	ug/L	89	KED
|	**Zn -3**	66	19719.6	0.5	**86.2051**	1.154	1.3	ug/L	65	KED
|	**Zn -4**	67	3212.4	0.5	**84.4237**	0.742	0.9	ug/L	10	KED
|	**Zn -5**	68	14641.5	1.2	**85.5077**	0.558	0.7	ug/L	39	KED
|	**As-2**	75	8318.4	0.3	**51.5927**	0.467	0.9	ug/L	1	KED
	Y-1	89	48848.7	0.3				ug/L	50921	KED
	Rh-1	103	33632.2	1.6				ug/L	32421	KED
| >	**Ge**	72	294369.3	0.1				ug/L	400120	Standard
| >	**In**	115	308460.6	1.3				ug/L	376660	Standard
| >	**Ge-1**	72	22959.1	0.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	73.570
|>	In	115	81.894
|>	Ge-1	72	104.981

Quantitative Analysis - Summary Report

Sample ID: 05-300-05bPS 2X

Sample Date/Time: Saturday, June 01, 2024 14:08:34
Report Date/Time: Saturday, June 01, 2024 14:10:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-300-05bPS 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	402906.7	0.9	**53.0145**	0.148	0.3	ug/L	-4073	Standard
|	**Ni -1**	60	156095.2	1.1	**50.2290**	0.366	0.7	ug/L	155	Standard
|	**Ni -2**	62	42637.5	0.9	**45.5145**	1.179	2.6	ug/L	26155	Standard
|	**Cu**	63	351556.4	0.9	**47.5577**	0.556	1.2	ug/L	25402	Standard
|	**Cu -1**	65	148026.7	1.1	**46.3314**	0.780	1.7	ug/L	479	Standard
|	**Zn**	66	140406.3	0.6	**79.2951**	0.599	0.8	ug/L	604	Standard
|	**Zn -1**	67	26435.8	1.4	**89.6533**	0.787	0.9	ug/L	115	Standard
|	**Zn -2**	68	95689.1	1.0	**75.6549**	0.429	0.6	ug/L	605	Standard
|	**As**	75	80985.4	1.0	**39.5797**	0.408	1.0	ug/L	12853	Standard
|	**As-1**	75	70342.7	1.1	**39.0736**	0.442	1.1	ug/L	-4	Standard
|	**Se**	77	11834.9	0.8	**99.5086**	1.342	1.3	ug/L	98	Standard
|	**Se -1**	78	26451.8	0.9	**41.7801**	0.578	1.4	ug/L	12897	Standard
|	**Br**	79	5307.0	1.7				ug/L	2838	Standard
|	**Se -2**	82	6242.4	1.6	**39.1098**	0.733	1.9	ug/L	35	Standard
	Kr	83	52.3	12.7				ug/L	29	Standard
	Y	89	492853.9	0.4				ug/L	601935	Standard
|	**Rh**	103	80542.1	1.1				ug/L	108502	Standard
|	**Ni -3**	58	96624.2	1.5	**50.3176**	0.485	1.0	ug/L	68	KED
|	**Ni -4**	60	40911.2	1.0	**48.6483**	0.595	1.2	ug/L	30	KED
|	**Ni -5**	62	6145.7	1.0	**48.3178**	1.174	2.4	ug/L	9	KED
|	**Cu -2**	63	101404.0	0.9	**47.5710**	0.584	1.2	ug/L	172	KED
|	**Cu -3**	65	47320.9	1.1	**46.7797**	0.323	0.7	ug/L	89	KED
|	**Zn -3**	66	18401.5	2.6	**75.2069**	1.114	1.5	ug/L	65	KED
|	**Zn -4**	67	2956.0	3.5	**72.6091**	1.409	1.9	ug/L	10	KED
|	**Zn -5**	68	13662.2	2.6	**74.5873**	0.866	1.2	ug/L	39	KED
|	**As-2**	75	7116.4	1.9	**41.2798**	0.182	0.4	ug/L	1	KED
	Y-1	89	52187.2	1.8				ug/L	50921	KED
	Rh-1	103	36408.0	1.0				ug/L	32421	KED
| >	**Ge**	72	319770.7	0.7				ug/L	400120	Standard
| >	**In**	115	335819.1	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24546.1	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	79.919
|>	In	115	89.157
|>	Ge-1	72	112.238

Quantitative Analysis - Summary Report

Sample ID: 05-426-01 5X

Sample Date/Time: Saturday, June 01, 2024 14:13:14
Report Date/Time: Saturday, June 01, 2024 14:15:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-426-01 5X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1165.5	28.7	**0.5149**	0.043	8.4	ug/L	-4073	Standard
|	**Ni -1**	60	3371.1	2.3	**1.0389**	0.024	2.3	ug/L	155	Standard
|	**Ni -2**	62	21052.5	0.2	**6.3736**	0.565	8.9	ug/L	26155	Standard
|	**Cu**	63	89209.0	0.4	**10.0328**	0.204	2.0	ug/L	25402	Standard
|	**Cu -1**	65	32189.9	1.7	**9.7201**	0.259	2.7	ug/L	479	Standard
|	**Zn**	66	117119.9	2.0	**63.9204**	0.661	1.0	ug/L	604	Standard
|	**Zn -1**	67	19633.5	3.1	**64.3207**	1.148	1.8	ug/L	115	Standard
|	**Zn -2**	68	78240.4	2.1	**59.7485**	0.628	1.1	ug/L	605	Standard
|	**As**	75	12201.8	1.7	**0.8775**	0.012	1.3	ug/L	12853	Standard
|	**As-1**	75	471.1	43.4	**0.2480**	0.107	43.0	ug/L	-4	Standard
|	**Se**	77	3770.2	0.9	**30.2249**	0.286	0.9	ug/L	98	Standard
|	**Se -1**	78	11817.9	1.6	**3.3290**	0.511	15.3	ug/L	12897	Standard
|	**Br**	79	3341.4	2.4				ug/L	2838	Standard
|	**Se -2**	82	51.7	7.3	**0.1550**	0.026	16.5	ug/L	35	Standard
	Kr	83	42.7	7.2				ug/L	29	Standard
	Y	89	503192.3	0.7				ug/L	601935	Standard
|	**Rh**	103	85020.3	1.4				ug/L	108502	Standard
|	**Ni -3**	58	2233.5	5.7	**1.1124**	0.068	6.2	ug/L	68	KED
|	**Ni -4**	60	860.7	4.3	**0.9809**	0.023	2.4	ug/L	30	KED
|	**Ni -5**	62	129.0	6.2	**0.9897**	0.078	7.9	ug/L	9	KED
|	**Cu -2**	63	22627.9	1.4	**10.1747**	0.324	3.2	ug/L	172	KED
|	**Cu -3**	65	10439.1	0.9	**9.8902**	0.140	1.4	ug/L	89	KED
|	**Zn -3**	66	15379.3	0.6	**60.3183**	0.980	1.6	ug/L	65	KED
|	**Zn -4**	67	2376.2	0.2	**55.9960**	1.092	2.0	ug/L	10	KED
|	**Zn -5**	68	11002.6	1.2	**57.6129**	0.902	1.6	ug/L	39	KED
|	**As-2**	75	65.0	27.3	**0.3587**	0.102	28.3	ug/L	1	KED
	Y-1	89	53085.8	0.1				ug/L	50921	KED
	Rh-1	103	37612.8	0.6				ug/L	32421	KED
|>	**Ge**	72	330638.1	1.6				ug/L	400120	Standard
|>	**In**	115	349831.6	0.8				ug/L	376660	Standard
|>	**Ge-1**	72	25569.9	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	82.635
| >	In	115	92.877
| >	Ge-1	72	116.919

Quantitative Analysis - Summary Report

Sample ID: 05-410-01a 5X

Sample Date/Time: Saturday, June 01, 2024 14:17:54
Report Date/Time: Saturday, June 01, 2024 14:20:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-410-01a 5X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	39954.9	2.1	**5.6124**	0.077	1.4	ug/L	-4073	Standard
|	**Ni -1**	60	17868.5	2.2	**5.7670**	0.093	1.6	ug/L	155	Standard
|	**Ni -2**	62	77380.0	0.7	**107.1870**	0.120	0.1	ug/L	26155	Standard
|	**Cu**	63	81153.9	0.9	**9.3595**	0.052	0.6	ug/L	25402	Standard
|	**Cu -1**	65	3385.7	1.6	**1.0331**	0.012	1.2	ug/L	479	Standard
|	**Zn**	66	41000.8	0.9	**23.0920**	0.090	0.4	ug/L	604	Standard
|	**Zn -1**	67	7970.9	0.7	**26.9919**	0.273	1.0	ug/L	115	Standard
|	**Zn -2**	68	27485.8	0.7	**21.5747**	0.066	0.3	ug/L	605	Standard
|	**As**	75	12664.4	2.4	**1.3932**	0.122	8.7	ug/L	12853	Standard
|	**As-1**	75	708.5	2.9	**0.3911**	0.014	3.5	ug/L	-4	Standard
|	**Se**	77	4745.8	1.7	**39.7167**	0.944	2.4	ug/L	98	Standard
|	**Se -1**	78	12423.1	2.5	**6.0150**	0.592	9.8	ug/L	12897	Standard
|	**Br**	79	129292.1	2.8				ug/L	2838	Standard
|	**Se -2**	82	201.7	2.2	**1.1151**	0.030	2.7	ug/L	35	Standard
	Kr	83	74.7	16.0				ug/L	29	Standard
	Y	89	490331.4	1.9				ug/L	601935	Standard
|	**Rh**	103	79573.7	2.2				ug/L	108502	Standard
|	**Ni -3**	58	11549.4	1.6	**5.6770**	0.068	1.2	ug/L	68	KED
|	**Ni -4**	60	4922.2	1.7	**5.5271**	0.069	1.3	ug/L	30	KED
|	**Ni -5**	62	760.0	2.5	**5.6572**	0.161	2.8	ug/L	9	KED
|	**Cu -2**	63	2123.2	1.5	**0.9176**	0.012	1.3	ug/L	172	KED
|	**Cu -3**	65	946.0	2.7	**0.8617**	0.028	3.2	ug/L	89	KED
|	**Zn -3**	66	5674.8	0.8	**21.7779**	0.274	1.3	ug/L	65	KED
|	**Zn -4**	67	885.4	4.7	**20.3601**	1.028	5.1	ug/L	10	KED
|	**Zn -5**	68	4104.9	1.9	**20.9701**	0.517	2.5	ug/L	39	KED
|	**As-2**	75	61.3	6.8	**0.3325**	0.024	7.1	ug/L	1	KED
	Y-1	89	53319.3	1.3				ug/L	50921	KED
	Rh-1	103	36667.0	1.1				ug/L	32421	KED
| >	**Ge**	72	318285.4	0.7				ug/L	400120	Standard
| >	**In**	115	335339.2	1.2				ug/L	376660	Standard
| >	**Ge-1**	72	25985.3	0.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	79.548
|>	In	115	89.030
|>	Ge-1	72	118.818

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 14:32:01
Report Date/Time: Saturday, June 01, 2024 14:34:21
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	319844.7	2.9	**41.7771**	0.268	0.6	ug/L	-4073	Standard
|	**Ni -1**	60	128232.3	2.9	**40.8822**	0.121	0.3	ug/L	155	Standard
|	**Ni -2**	62	39636.9	0.5	**39.6266**	1.511	3.8	ug/L	26155	Standard
|	**Cu**	63	303524.1	1.1	**40.3810**	0.698	1.7	ug/L	25402	Standard
|	**Cu -1**	65	129995.9	1.7	**40.3189**	0.720	1.8	ug/L	479	Standard
|	**Zn**	66	73507.7	1.6	**41.0246**	0.435	1.1	ug/L	604	Standard
|	**Zn -1**	67	12123.1	0.7	**40.6223**	0.864	2.1	ug/L	115	Standard
|	**Zn -2**	68	51345.8	2.0	**40.0614**	0.561	1.4	ug/L	605	Standard
|	**As**	75	79336.2	2.0	**38.2558**	0.284	0.7	ug/L	12853	Standard
|	**As-1**	75	67973.3	2.8	**37.4104**	0.078	0.2	ug/L	-4	Standard
|	**Se**	77	4644.4	1.1	**38.3184**	0.581	1.5	ug/L	98	Standard
|	**Se -1**	78	27062.6	0.5	**42.7380**	1.674	3.9	ug/L	12897	Standard
|	**Br**	79	2301.5	2.0				ug/L	2838	Standard
|	**Se -2**	82	6200.3	2.9	**38.4890**	0.661	1.7	ug/L	35	Standard
	Kr	83	35.7	14.4				ug/L	29	Standard
	Y	89	456774.8	3.0				ug/L	601935	Standard
|	**Rh**	103	83518.6	3.0				ug/L	108502	Standard
|	**Ni -3**	58	70142.0	0.5	**41.8917**	0.271	0.6	ug/L	68	KED
|	**Ni -4**	60	30301.8	0.4	**41.3237**	0.420	1.0	ug/L	30	KED
|	**Ni -5**	62	4454.4	0.1	**40.1604**	0.412	1.0	ug/L	9	KED
|	**Cu -2**	63	76685.6	1.1	**41.2527**	0.360	0.9	ug/L	172	KED
|	**Cu -3**	65	35589.6	0.9	**40.3454**	0.058	0.1	ug/L	89	KED
|	**Zn -3**	66	8514.2	1.4	**39.8228**	0.126	0.3	ug/L	65	KED
|	**Zn -4**	67	1408.4	3.0	**39.5597**	0.796	2.0	ug/L	10	KED
|	**Zn -5**	68	6323.7	1.5	**39.4652**	0.332	0.8	ug/L	39	KED
|	**As-2**	75	5782.2	1.1	**38.4719**	0.686	1.8	ug/L	1	KED
	Y-1	89	45464.2	0.2				ug/L	50921	KED
	Rh-1	103	30594.4	1.1				ug/L	32421	KED
\>	**Ge**	72	322720.4	2.6				ug/L	400120	Standard
\>	**In**	115	316150.9	2.0				ug/L	376660	Standard
\>	**Ge-1**	72	21402.4	1.1				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	80.656
| >	In	115	83.935
| >	Ge-1	72	97.863

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 14:36:41
Report Date/Time: Saturday, June 01, 2024 14:39:01
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	190440.2	2.0	**21.8547**	0.124	0.6	ug/L	-4073	Standard
|	**Ni -1**	60	76346.9	2.5	**21.2055**	0.080	0.4	ug/L	155	Standard
|	**Ni -2**	62	30604.1	0.9	**17.0386**	1.146	6.7	ug/L	26155	Standard
|	**Cu**	63	184110.6	2.5	**20.3122**	0.071	0.3	ug/L	25402	Standard
|	**Cu -1**	65	77216.2	2.4	**20.8482**	0.093	0.4	ug/L	479	Standard
|	**Zn**	66	43431.3	2.1	**21.0013**	0.091	0.4	ug/L	604	Standard
|	**Zn -1**	67	7372.9	2.5	**21.4072**	0.251	1.2	ug/L	115	Standard
|	**Zn -2**	68	30944.8	3.1	**20.8609**	0.215	1.0	ug/L	605	Standard
|	**As**	75	52125.2	2.6	**19.4520**	0.203	1.0	ug/L	12853	Standard
|	**As-1**	75	40300.5	3.5	**19.3222**	0.218	1.1	ug/L	-4	Standard
|	**Se**	77	2835.3	2.2	**20.0885**	0.446	2.2	ug/L	98	Standard
|	**Se -1**	78	21310.2	1.3	**21.1767**	0.653	3.1	ug/L	12897	Standard
|	**Br**	79	2022.5	2.1				ug/L	2838	Standard
|	**Se -2**	82	3753.5	4.3	**20.2207**	0.419	2.1	ug/L	35	Standard
	Kr	83	34.0	29.0				ug/L	29	Standard
	Y	89	512286.2	0.8				ug/L	601935	Standard
|	**Rh**	103	93717.8	1.2				ug/L	108502	Standard
|	**Ni -3**	58	41121.5	0.5	**21.8473**	0.266	1.2	ug/L	68	KED
|	**Ni -4**	60	17776.7	1.5	**21.5650**	0.239	1.1	ug/L	30	KED
|	**Ni -5**	62	2696.6	0.5	**21.6353**	0.093	0.4	ug/L	9	KED
|	**Cu -2**	63	44700.5	1.3	**21.3813**	0.290	1.4	ug/L	172	KED
|	**Cu -3**	65	20716.7	1.3	**20.8819**	0.130	0.6	ug/L	89	KED
|	**Zn -3**	66	5016.2	1.3	**20.7840**	0.251	1.2	ug/L	65	KED
|	**Zn -4**	67	805.4	3.4	**19.9972**	0.625	3.1	ug/L	10	KED
|	**Zn -5**	68	3678.5	3.5	**20.2840**	0.574	2.8	ug/L	39	KED
|	**As-2**	75	3390.1	1.7	**20.0636**	0.373	1.9	ug/L	1	KED
	Y-1	89	51831.5	0.1				ug/L	50921	KED
	Rh-1	103	34659.0	0.4				ug/L	32421	KED
| >	**Ge**	72	370362.0	2.5				ug/L	400120	Standard
| >	**In**	115	355624.7	1.0				ug/L	376660	Standard
| >	**Ge-1**	72	24057.2	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
|>	Ge	72	92.563
|>	In	115	94.415
|>	Ge-1	72	110.002

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 14:41:21
Report Date/Time: Saturday, June 01, 2024 14:43:41
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5603.2	2.0	**-0.2758**	0.015	5.5	ug/L	-4073	Standard
|	**Ni -1**	60	164.3	10.3	**0.0360**	0.006	15.3	ug/L	155	Standard
|	**Ni -2**	62	18778.0	0.5	**-0.4180**	0.552	132.2	ug/L	26155	Standard
|	**Cu**	63	15932.2	0.7	**-0.1935**	0.043	22.2	ug/L	25402	Standard
|	**Cu -1**	65	447.7	4.9	**0.0910**	0.008	8.9	ug/L	479	Standard
|	**Zn**	66	663.7	2.5	**0.0885**	0.004	4.0	ug/L	604	Standard
|	**Zn -1**	67	142.7	13.1	**0.1861**	0.063	33.9	ug/L	115	Standard
|	**Zn -2**	68	661.3	3.4	**0.0990**	0.018	18.4	ug/L	605	Standard
|	**As**	75	12616.1	2.7	**0.4751**	0.080	16.9	ug/L	12853	Standard
|	**As-1**	75	-23.9	329.1	**-0.0163**	0.038	235.2	ug/L	-4	Standard
|	**Se**	77	156.0	7.4	**0.5316**	0.069	13.0	ug/L	98	Standard
|	**Se -1**	78	12696.6	2.3	**2.6170**	0.243	9.3	ug/L	12897	Standard
|	**Br**	79	1796.8	2.2				ug/L	2838	Standard
|	**Se -2**	82	41.0	23.5	**0.0668**	0.051	76.4	ug/L	35	Standard
	Kr	83	34.7	9.3				ug/L	29	Standard
	Y	89	506172.5	2.8				ug/L	601935	Standard
|	**Rh**	103	93249.7	1.5				ug/L	108502	Standard
|	**Ni -3**	58	84.4	9.2	**0.0408**	0.003	8.4	ug/L	68	KED
|	**Ni -4**	60	37.3	20.1	**0.0447**	0.010	22.9	ug/L	30	KED
|	**Ni -5**	62	13.7	11.2	**0.1265**	0.013	10.2	ug/L	9	KED
|	**Cu -2**	63	226.7	4.3	**0.0862**	0.007	8.1	ug/L	172	KED
|	**Cu -3**	65	113.0	3.2	**0.0931**	0.005	5.1	ug/L	89	KED
|	**Zn -3**	66	72.0	6.1	**0.1169**	0.022	19.2	ug/L	65	KED
|	**Zn -4**	67	12.7	36.5	**0.0607**	0.125	206.5	ug/L	10	KED
|	**Zn -5**	68	48.0	19.9	**-0.0125**	0.050	395.3	ug/L	39	KED
|	**As-2**	75	3.7	63.0	**0.0181**	0.014	74.7	ug/L	1	KED
	Y-1	89	50920.3	1.0				ug/L	50921	KED
	Rh-1	103	34400.7	1.9				ug/L	32421	KED
|>	**Ge**	72	364025.4	1.6				ug/L	400120	Standard
|>	**In**	115	349102.7	1.3				ug/L	376660	Standard
|>	**Ge-1**	72	23790.8	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	90.979
| >	In	115	92.684
| >	Ge-1	72	108.784

Quantitative Analysis - Summary Report

Sample ID: 05-442-01c 5X

Sample Date/Time: Saturday, June 01, 2024 14:46:57
Report Date/Time: Saturday, June 01, 2024 14:49:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-442-01c 5X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	74445.3	8.2	**9.2406**	0.731	7.9	ug/L	-4073	Standard
|	**Ni -1**	60	14397.3	1.5	**4.2164**	0.093	2.2	ug/L	155	Standard
|	**Ni -2**	62	68003.9	6.6	**79.5710**	7.055	8.9	ug/L	26155	Standard
|	**Cu**	63	67823.6	5.5	**6.5765**	0.464	7.1	ug/L	25402	Standard
|	**Cu -1**	65	2276.5	4.2	**0.6181**	0.029	4.6	ug/L	479	Standard
|	**Zn**	66	2543.6	0.7	**1.0725**	0.017	1.6	ug/L	604	Standard
|	**Zn -1**	67	1799.4	1.8	**5.3403**	0.079	1.5	ug/L	115	Standard
|	**Zn -2**	68	4702.8	0.7	**3.0450**	0.020	0.6	ug/L	605	Standard
|	**As**	75	18323.7	0.2	**3.6258**	0.089	2.4	ug/L	12853	Standard
|	**As-1**	75	6086.2	1.7	**3.0798**	0.076	2.5	ug/L	-4	Standard
|	**Se**	77	2619.2	4.0	**19.5851**	0.791	4.0	ug/L	98	Standard
|	**Se -1**	78	13279.2	0.8	**5.0741**	0.367	7.2	ug/L	12897	Standard
|	**Br**	79	329698.2	1.3				ug/L	2838	Standard
|	**Se -2**	82	428.3	5.8	**2.2993**	0.170	7.4	ug/L	35	Standard
	Kr	83	71.7	26.2				ug/L	29	Standard
	Y	89	518159.6	0.6				ug/L	601935	Standard
|	**Rh**	103	86873.4	0.8				ug/L	108502	Standard
|	**Ni -3**	58	21730.1	1.7	**11.1822**	0.269	2.4	ug/L	68	KED
|	**Ni -4**	60	3438.1	3.3	**4.0386**	0.091	2.2	ug/L	30	KED
|	**Ni -5**	62	498.0	3.6	**3.8823**	0.077	2.0	ug/L	9	KED
|	**Cu -2**	63	1215.7	2.7	**0.5404**	0.022	4.1	ug/L	172	KED
|	**Cu -3**	65	591.0	3.0	**0.5555**	0.016	2.9	ug/L	89	KED
|	**Zn -3**	66	297.0	2.4	**1.0156**	0.048	4.7	ug/L	65	KED
|	**Zn -4**	67	241.7	5.5	**5.6269**	0.328	5.8	ug/L	10	KED
|	**Zn -5**	68	859.7	6.4	**4.3769**	0.370	8.4	ug/L	39	KED
|	**As-2**	75	497.0	1.8	**2.8461**	0.032	1.1	ug/L	1	KED
	Y-1	89	52194.2	2.5				ug/L	50921	KED
	Rh-1	103	35147.2	2.1				ug/L	32421	KED
\>	**Ge**	72	350598.0	1.1				ug/L	400120	Standard
\>	**In**	115	338694.0	0.6				ug/L	376660	Standard
\>	**Ge-1**	72	24835.9	1.6				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	87.623
| >	In	115	89.920
| >	Ge-1	72	113.563

Quantitative Analysis - Summary Report

Sample ID: 05-442-02c 5X

Sample Date/Time: Saturday, June 01, 2024 14:51:37
Report Date/Time: Saturday, June 01, 2024 14:53:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-442-02c 5X.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	74346.9	4.6	**9.5922**	0.697	7.3	ug/L	-4073	Standard
|	**Ni -1**	60	13477.0	2.2	**4.1027**	0.045	1.1	ug/L	155	Standard
|	**Ni -2**	62	115822.3	5.6	**163.4288**	4.643	2.8	ug/L	26155	Standard
|	**Cu**	63	116663.8	5.8	**13.4635**	0.407	3.0	ug/L	25402	Standard
|	**Cu -1**	65	3920.2	2.0	**1.1321**	0.016	1.4	ug/L	479	Standard
|	**Zn**	66	7248.8	1.3	**3.6531**	0.100	2.7	ug/L	604	Standard
|	**Zn -1**	67	2063.8	0.8	**6.4177**	0.234	3.6	ug/L	115	Standard
|	**Zn -2**	68	6749.3	4.0	**4.7202**	0.098	2.1	ug/L	605	Standard
|	**As**	75	18958.7	4.4	**4.3286**	0.145	3.4	ug/L	12853	Standard
|	**As-1**	75	5477.6	7.8	**2.8778**	0.137	4.8	ug/L	-4	Standard
|	**Se**	77	2586.6	2.5	**20.1277**	0.557	2.8	ug/L	98	Standard
|	**Se -1**	78	14413.9	3.4	**9.0479**	0.279	3.1	ug/L	12897	Standard
|	**Br**	79	351941.9	3.0				ug/L	2838	Standard
|	**Se -2**	82	387.3	9.9	**2.1473**	0.157	7.3	ug/L	35	Standard
	Kr	83	110.7	20.2				ug/L	29	Standard
	Y	89	504873.2	1.4				ug/L	601935	Standard
|	**Rh**	103	83581.2	2.3				ug/L	108502	Standard
|	**Ni -3**	58	20123.0	2.9	**10.1910**	0.303	3.0	ug/L	68	KED
|	**Ni -4**	60	3281.7	3.6	**3.7953**	0.148	3.9	ug/L	30	KED
|	**Ni -5**	62	505.3	3.2	**3.8778**	0.069	1.8	ug/L	9	KED
|	**Cu -2**	63	2332.9	3.7	**1.0412**	0.029	2.8	ug/L	172	KED
|	**Cu -3**	65	1073.4	2.9	**1.0105**	0.031	3.0	ug/L	89	KED
|	**Zn -3**	66	904.0	1.6	**3.4161**	0.067	2.0	ug/L	65	KED
|	**Zn -4**	67	264.0	4.7	**6.0675**	0.217	3.6	ug/L	10	KED
|	**Zn -5**	68	1017.4	3.4	**5.1426**	0.242	4.7	ug/L	39	KED
|	**As-2**	75	462.7	2.8	**2.6073**	0.048	1.8	ug/L	1	KED
	Y-1	89	53144.7	0.7				ug/L	50921	KED
	Rh-1	103	35677.8	1.5				ug/L	32421	KED
|>	**Ge**	72	337289.6	3.2				ug/L	400120	Standard
|>	**In**	115	348512.9	1.8				ug/L	376660	Standard
|>	**Ge-1**	72	25232.3	1.4				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	84.297
| >	In	115	92.527
| >	Ge-1	72	115.375

Quantitative Analysis - Summary Report

Sample ID: 05-311-01b 10X 29WM1

Sample Date/Time: Saturday, June 01, 2024 14:56:16
Report Date/Time: Saturday, June 01, 2024 14:58:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-01b 10X 29WM1.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	4328.3	4.4	0.8574	0.028	3.2	ug/L	-4073	Standard
|	Ni -1	60	5172.9	0.6	1.4311	0.019	1.3	ug/L	155	Standard
|	Ni -2	62	158983.1	2.5	212.4137	2.815	1.3	ug/L	26155	Standard
|	Cu	63	751762.0	1.9	89.8908	0.646	0.7	ug/L	25402	Standard
|	Cu -1	65	255568.6	1.9	69.2627	0.345	0.5	ug/L	479	Standard
|	Zn	66	152776.9	2.3	74.6803	1.016	1.4	ug/L	604	Standard
|	Zn -1	67	23512.3	1.8	68.9796	0.289	0.4	ug/L	115	Standard
|	Zn -2	68	100878.1	2.5	69.0138	0.792	1.1	ug/L	605	Standard
|	As	75	16401.7	2.8	2.2190	0.130	5.9	ug/L	12853	Standard
|	As-1	75	1682.4	11.4	0.8049	0.093	11.5	ug/L	-4	Standard
|	Se	77	4026.6	8.0	28.8493	1.954	6.8	ug/L	98	Standard
|	Se -1	78	15873.5	2.4	9.2444	0.362	3.9	ug/L	12897	Standard
|	Br	79	411440.0	2.4				ug/L	2838	Standard
|	Se -2	82	476.3	3.5	2.4357	0.119	4.9	ug/L	35	Standard
	Kr	83	137.0	3.9				ug/L	29	Standard
	Y	89	550279.3	2.2				ug/L	601935	Standard
|	Rh	103	92855.7	3.3				ug/L	108502	Standard
|	Ni -3	58	2737.6	2.1	1.2884	0.021	1.6	ug/L	68	KED
|	Ni -4	60	1051.0	0.7	1.1321	0.004	0.4	ug/L	30	KED
|	Ni -5	62	189.3	5.3	1.3648	0.072	5.2	ug/L	9	KED
|	Cu -2	63	168669.3	0.8	71.7627	0.237	0.3	ug/L	172	KED
|	Cu -3	65	78083.8	1.0	70.0098	0.496	0.7	ug/L	89	KED
|	Zn -3	66	19018.7	1.3	70.4847	0.788	1.1	ug/L	65	KED
|	Zn -4	67	2863.3	0.3	63.7656	0.507	0.8	ug/L	10	KED
|	Zn -5	68	13521.1	1.0	66.9198	0.299	0.4	ug/L	39	KED
|	As-2	75	79.7	3.2	0.4155	0.012	2.9	ug/L	1	KED
	Y-1	89	57977.1	0.9				ug/L	50921	KED
	Rh-1	103	38187.6	0.7				ug/L	32421	KED
| >	Ge	72	369345.9	1.4				ug/L	400120	Standard
| >	In	115	377959.4	1.8				ug/L	376660	Standard
| >	Ge-1	72	27066.3	0.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	92.309
| >	In	115	100.345
| >	Ge-1	72	123.761

Quantitative Analysis - Summary Report

Sample ID: 05-311-02b 10X

Sample Date/Time: Saturday, June 01, 2024 15:00:56
Report Date/Time: Saturday, June 01, 2024 15:03:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-02b 10X.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-878.8	13.5	**0.2537**	0.014	5.5	ug/L	-4073	Standard
|	**Ni -1**	60	4819.8	0.8	**1.5281**	0.017	1.1	ug/L	155	Standard
|	**Ni -2**	62	268384.8	2.3	**438.2181**	3.635	0.8	ug/L	26155	Standard
|	**Cu**	63	435725.8	2.9	**58.9444**	0.849	1.4	ug/L	25402	Standard
|	**Cu -1**	65	5358.0	3.2	**1.6317**	0.032	2.0	ug/L	479	Standard
|	**Zn**	66	6172.3	3.4	**3.2252**	0.071	2.2	ug/L	604	Standard
|	**Zn -1**	67	4127.9	1.9	**13.6800**	0.103	0.8	ug/L	115	Standard
|	**Zn -2**	68	3816.5	3.5	**2.6437**	0.064	2.4	ug/L	605	Standard
|	**As**	75	21323.1	2.7	**6.1043**	0.143	2.3	ug/L	12853	Standard
|	**As-1**	75	5638.1	2.1	**3.1021**	0.069	2.2	ug/L	-4	Standard
|	**Se**	77	21344.9	2.9	**178.4497**	2.648	1.5	ug/L	98	Standard
|	**Se -1**	78	20035.7	2.9	**24.9245**	0.702	2.8	ug/L	12897	Standard
|	**Br**	79	1707279.7	2.8				ug/L	2838	Standard
|	**Se -2**	82	1736.8	1.5	**10.6760**	0.140	1.3	ug/L	35	Standard
	Kr	83	806.4	7.9				ug/L	29	Standard
	Y	89	477406.4	0.3				ug/L	601935	Standard
|	**Rh**	103	80060.1	1.4				ug/L	108502	Standard
|	**Ni -3**	58	1180.3	3.5	**0.6301**	0.028	4.5	ug/L	68	KED
|	**Ni -4**	60	507.7	9.1	**0.6222**	0.062	10.0	ug/L	30	KED
|	**Ni -5**	62	145.3	6.2	**1.1944**	0.074	6.2	ug/L	9	KED
|	**Cu -2**	63	2282.5	3.3	**1.0818**	0.026	2.4	ug/L	172	KED
|	**Cu -3**	65	1054.0	4.9	**1.0535**	0.042	4.0	ug/L	89	KED
|	**Zn -3**	66	618.3	1.9	**2.4279**	0.075	3.1	ug/L	65	KED
|	**Zn -4**	67	104.0	23.0	**2.3844**	0.616	25.8	ug/L	10	KED
|	**Zn -5**	68	485.7	2.7	**2.4637**	0.048	1.9	ug/L	39	KED
|	**As-2**	75	62.7	8.8	**0.3717**	0.035	9.3	ug/L	1	KED
	Y-1	89	50708.8	1.0				ug/L	50921	KED
	Rh-1	103	32304.2	0.2				ug/L	32421	KED
| >	**Ge**	72	322435.4	1.6				ug/L	400120	Standard
| >	**In**	115	329362.6	1.4				ug/L	376660	Standard
| >	**Ge-1**	72	23781.4	1.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	80.585
>	In	115	87.443
>	Ge-1	72	108.741

Quantitative Analysis - Summary Report

Sample ID: 05-311-03b 10X

Sample Date/Time: Saturday, June 01, 2024 15:05:35
Report Date/Time: Saturday, June 01, 2024 15:07:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-03b 10X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-29.8	1370.4	**0.3648**	0.041	11.2	ug/L	-4073	Standard
|	**Ni -1**	60	1946.5	2.6	**0.4696**	0.006	1.3	ug/L	155	Standard
|	**Ni -2**	62	391223.7	1.5	**497.4556**	1.334	0.3	ug/L	26155	Standard
|	**Cu**	63	414522.9	2.0	**42.7675**	0.286	0.7	ug/L	25402	Standard
|	**Cu -1**	65	6267.4	1.1	**1.4723**	0.004	0.3	ug/L	479	Standard
|	**Zn**	66	5188.9	2.4	**2.0110**	0.030	1.5	ug/L	604	Standard
|	**Zn -1**	67	1707.4	7.0	**4.2127**	0.371	8.8	ug/L	115	Standard
|	**Zn -2**	68	3801.8	1.1	**1.9525**	0.023	1.2	ug/L	605	Standard
|	**As**	75	24529.6	1.5	**4.7962**	0.289	6.0	ug/L	12853	Standard
|	**As-1**	75	4125.1	5.3	**1.7517**	0.076	4.4	ug/L	-4	Standard
|	**Se**	77	2485.9	9.7	**15.5083**	1.771	11.4	ug/L	98	Standard
|	**Se -1**	78	20798.5	2.2	**14.8890**	1.453	9.8	ug/L	12897	Standard
|	**Br**	79	94325.4	0.4				ug/L	2838	Standard
|	**Se -2**	82	185.3	7.2	**0.7337**	0.054	7.3	ug/L	35	Standard
	Kr	83	254.7	8.9				ug/L	29	Standard
	Y	89	583625.9	1.5				ug/L	601935	Standard
|	**Rh**	103	105488.4	1.6				ug/L	108502	Standard
|	**Ni -3**	58	1519.2	2.7	**0.7150**	0.024	3.3	ug/L	68	KED
|	**Ni -4**	60	417.0	3.1	**0.4498**	0.018	4.1	ug/L	30	KED
|	**Ni -5**	62	127.0	6.9	**0.9231**	0.062	6.7	ug/L	9	KED
|	**Cu -2**	63	2986.6	2.9	**1.2507**	0.021	1.7	ug/L	172	KED
|	**Cu -3**	65	1399.1	1.3	**1.2362**	0.032	2.6	ug/L	89	KED
|	**Zn -3**	66	545.3	1.7	**1.8440**	0.004	0.2	ug/L	65	KED
|	**Zn -4**	67	103.0	10.3	**2.0486**	0.271	13.2	ug/L	10	KED
|	**Zn -5**	68	434.0	4.4	**1.8791**	0.077	4.1	ug/L	39	KED
|	**As-2**	75	331.0	3.9	**1.7432**	0.092	5.3	ug/L	1	KED
	Y-1	89	58331.5	1.4				ug/L	50921	KED
	Rh-1	103	37739.8	1.8				ug/L	32421	KED
| >	**Ge**	72	417195.9	1.4				ug/L	400120	Standard
| >	**In**	115	397560.3	1.7				ug/L	376660	Standard
| >	**Ge-1**	72	26995.5	1.5				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	104.268
>	In	115	105.549
>	Ge-1	72	123.438

Quantitative Analysis - Summary Report

Sample ID: 05-311-04c 10X

Sample Date/Time: Saturday, June 01, 2024 15:10:14
Report Date/Time: Saturday, June 01, 2024 15:12:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-04c 10X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5021.7	3.0	**-0.3558**	0.018	5.0	ug/L	-4073	Standard
|	**Ni -1**	60	3619.5	5.3	**1.2733**	0.059	4.6	ug/L	155	Standard
|	**Ni -2**	62	414607.9	1.1	**773.6459**	12.823	1.7	ug/L	26155	Standard
|	**Cu**	63	627925.6	0.8	**95.7425**	1.293	1.4	ug/L	25402	Standard
|	**Cu -1**	65	6710.9	0.6	**2.2848**	0.036	1.6	ug/L	479	Standard
|	**Zn**	66	6310.7	2.4	**3.6990**	0.108	2.9	ug/L	604	Standard
|	**Zn -1**	67	3896.9	4.2	**14.3693**	0.702	4.9	ug/L	115	Standard
|	**Zn -2**	68	3757.8	2.4	**2.9283**	0.089	3.0	ug/L	605	Standard
|	**As**	75	22066.8	1.9	**7.8832**	0.245	3.1	ug/L	12853	Standard
|	**As-1**	75	5916.1	2.7	**3.6181**	0.075	2.1	ug/L	-4	Standard
|	**Se**	77	19142.8	1.3	**177.9033**	2.290	1.3	ug/L	98	Standard
|	**Se -1**	78	20284.7	2.3	**31.3051**	1.285	4.1	ug/L	12897	Standard
|	**Br**	79	1476022.9	3.0				ug/L	2838	Standard
|	**Se -2**	82	1652.1	4.4	**11.2952**	0.458	4.1	ug/L	35	Standard
	Kr	83	900.7	1.2				ug/L	29	Standard
	Y	89	415991.4	1.3				ug/L	601935	Standard
|	**Rh**	103	72744.5	2.2				ug/L	108502	Standard
|	**Ni -3**	58	371.4	5.6	**0.2275**	0.012	5.1	ug/L	68	KED
|	**Ni -4**	60	163.3	9.6	**0.2317**	0.022	9.4	ug/L	30	KED
|	**Ni -5**	62	103.7	11.3	**0.9931**	0.115	11.5	ug/L	9	KED
|	**Cu -2**	63	3024.3	0.4	**1.6790**	0.021	1.2	ug/L	172	KED
|	**Cu -3**	65	1319.4	2.9	**1.5428**	0.032	2.1	ug/L	89	KED
|	**Zn -3**	66	627.3	5.8	**2.8953**	0.165	5.7	ug/L	65	KED
|	**Zn -4**	67	110.3	14.9	**2.9964**	0.444	14.8	ug/L	10	KED
|	**Zn -5**	68	455.0	2.5	**2.7084**	0.097	3.6	ug/L	39	KED
|	**As-2**	75	37.7	18.1	**0.2588**	0.050	19.2	ug/L	1	KED
	Y-1	89	44224.7	1.2				ug/L	50921	KED
	Rh-1	103	28216.8	1.4				ug/L	32421	KED
|>	**Ge**	72	290097.0	0.9				ug/L	400120	Standard
|>	**In**	115	292772.9	1.2				ug/L	376660	Standard
|>	**Ge-1**	72	20463.6	1.3				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	72.503
>	In	115	77.729
>	Ge-1	72	93.571

Quantitative Analysis - Summary Report

Sample ID: 05-311-05c 10X

Sample Date/Time: Saturday, June 01, 2024 15:14:53
Report Date/Time: Saturday, June 01, 2024 15:17:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-05c 10X.042

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-4429.8	1.3	**-0.1270**	0.008	6.3	ug/L	-4073	Standard
|	**Ni -1**	60	3880.2	2.2	**1.0561**	0.003	0.3	ug/L	155	Standard
|	**Ni -2**	62	347385.2	2.4	**492.1690**	22.299	4.5	ug/L	26155	Standard
|	**Cu**	63	548135.9	1.6	**64.0780**	2.311	3.6	ug/L	25402	Standard
|	**Cu -1**	65	7048.7	2.1	**1.8532**	0.010	0.5	ug/L	479	Standard
|	**Zn**	66	7326.9	2.8	**3.3026**	0.037	1.1	ug/L	604	Standard
|	**Zn -1**	67	4392.0	0.7	**12.5173**	0.193	1.5	ug/L	115	Standard
|	**Zn -2**	68	4187.9	2.4	**2.4787**	0.022	0.9	ug/L	605	Standard
|	**As**	75	22693.4	1.5	**5.1189**	0.048	0.9	ug/L	12853	Standard
|	**As-1**	75	6323.7	11.3	**2.9931**	0.293	9.8	ug/L	-4	Standard
|	**Se**	77	22738.8	1.8	**163.6885**	1.208	0.7	ug/L	98	Standard
|	**Se -1**	78	21123.3	0.4	**20.2620**	1.016	5.0	ug/L	12897	Standard
|	**Br**	79	1667226.9	2.2				ug/L	2838	Standard
|	**Se -2**	82	1896.5	7.5	**10.0264**	0.665	6.6	ug/L	35	Standard
	Kr	83	1189.4	3.5				ug/L	29	Standard
	Y	89	525627.0	0.8				ug/L	601935	Standard
|	**Rh**	103	92285.5	1.4				ug/L	108502	Standard
|	**Ni -3**	58	418.0	3.6	**0.1959**	0.006	3.0	ug/L	68	KED
|	**Ni -4**	60	170.3	8.4	**0.1853**	0.016	8.6	ug/L	30	KED
|	**Ni -5**	62	88.0	6.9	**0.6526**	0.048	7.4	ug/L	9	KED
|	**Cu -2**	63	3101.0	1.4	**1.3165**	0.019	1.4	ug/L	172	KED
|	**Cu -3**	65	1410.4	1.2	**1.2622**	0.008	0.6	ug/L	89	KED
|	**Zn -3**	66	701.7	3.7	**2.4595**	0.082	3.3	ug/L	65	KED
|	**Zn -4**	67	121.0	15.8	**2.4854**	0.443	17.8	ug/L	10	KED
|	**Zn -5**	68	504.7	1.3	**2.2636**	0.031	1.4	ug/L	39	KED
|	**As-2**	75	41.3	7.8	**0.2171**	0.017	7.6	ug/L	1	KED
	Y-1	89	57049.4	1.1				ug/L	50921	KED
	Rh-1	103	35836.9	0.3				ug/L	32421	KED
\>	**Ge**	72	374406.7	1.9				ug/L	400120	Standard
\>	**In**	115	376243.7	1.5				ug/L	376660	Standard
\>	**Ge-1**	72	26656.5	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

Se -2	82	
Kr	83	
Y	89	
Rh	103	
Ni -3	58	
Ni -4	60	
Ni -5	62	
Cu -2	63	
Cu -3	65	
Zn -3	66	
Zn -4	67	
Zn -5	68	
As-2	75	
Y-1	89	
Rh-1	103	
Ge	72	93.574
In	115	99.889
Ge-1	72	121.888

Quantitative Analysis - Summary Report

Sample ID: 05-311-03c 10X FFD

Sample Date/Time: Saturday, June 01, 2024 15:19:32
Report Date/Time: Saturday, June 01, 2024 15:21:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\05-311-03c 10X FFD.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	452.0	166.1	**0.4145**	0.078	18.9	ug/L	-4073	Standard
|	**Ni -1**	60	1836.5	4.1	**0.4583**	0.019	4.1	ug/L	155	Standard
|	**Ni -2**	62	322568.8	7.1	**419.9498**	27.512	6.6	ug/L	26155	Standard
|	**Cu**	63	345815.1	8.0	**36.6085**	2.743	7.5	ug/L	25402	Standard
|	**Cu -1**	65	3898.9	3.4	**0.9362**	0.029	3.1	ug/L	479	Standard
|	**Zn**	66	1909.5	2.6	**0.6163**	0.027	4.3	ug/L	604	Standard
|	**Zn -1**	67	1296.1	2.2	**3.2551**	0.085	2.6	ug/L	115	Standard
|	**Zn -2**	68	1421.7	2.6	**0.5332**	0.020	3.7	ug/L	605	Standard
|	**As**	75	26035.3	0.7	**5.8281**	0.088	1.5	ug/L	12853	Standard
|	**As-1**	75	3671.3	2.2	**1.6132**	0.027	1.7	ug/L	-4	Standard
|	**Se**	77	3349.1	6.2	**21.8566**	1.590	7.3	ug/L	98	Standard
|	**Se -1**	78	22820.9	0.3	**20.4041**	0.440	2.2	ug/L	12897	Standard
|	**Br**	79	111414.1	1.2				ug/L	2838	Standard
|	**Se -2**	82	213.0	7.4	**0.9038**	0.088	9.7	ug/L	35	Standard
	Kr	83	535.0	5.4				ug/L	29	Standard
	Y	89	574764.5	1.7				ug/L	601935	Standard
|	**Rh**	103	103782.7	2.3				ug/L	108502	Standard
|	**Ni -3**	58	1153.7	10.5	**0.5987**	0.054	9.0	ug/L	68	KED
|	**Ni -4**	60	319.0	3.4	**0.3800**	0.013	3.5	ug/L	30	KED
|	**Ni -5**	62	124.7	3.0	**1.0004**	0.041	4.1	ug/L	9	KED
|	**Cu -2**	63	1537.4	5.1	**0.7019**	0.048	6.8	ug/L	172	KED
|	**Cu -3**	65	686.3	2.8	**0.6602**	0.028	4.2	ug/L	89	KED
|	**Zn -3**	66	148.7	6.2	**0.4248**	0.045	10.6	ug/L	65	KED
|	**Zn -4**	67	32.0	8.3	**0.5295**	0.061	11.5	ug/L	10	KED
|	**Zn -5**	68	132.7	6.1	**0.4476**	0.051	11.5	ug/L	39	KED
|	**As-2**	75	285.3	4.7	**1.6601**	0.083	5.0	ug/L	1	KED
	Y-1	89	53702.4	1.5				ug/L	50921	KED
	Rh-1	103	33756.8	1.6				ug/L	32421	KED
\>	**Ge**	72	403166.5	0.9				ug/L	400120	Standard
\>	**In**	115	374372.2	1.8				ug/L	376660	Standard
\>	**Ge-1**	72	24427.2	2.0				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

	Se -2	82	
	Kr	83	
	Y	89	
	Rh	103	
	Ni -3	58	
	Ni -4	60	
	Ni -5	62	
	Cu -2	63	
	Cu -3	65	
	Zn -3	66	
	Zn -4	67	
	Zn -5	68	
	As-2	75	
	Y-1	89	
	Rh-1	103	
>	Ge	72	100.761
>	In	115	99.393
>	Ge-1	72	111.694

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, June 01, 2024 15:24:12
Report Date/Time: Saturday, June 01, 2024 15:26:32
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 6.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	308971.0	1.4	**40.1423**	0.509	1.3	ug/L	-4073	Standard
|	**Ni -1**	60	124163.0	1.7	**39.3602**	0.661	1.7	ug/L	155	Standard
|	**Ni -2**	62	338495.1	5.7	**556.9901**	43.741	7.9	ug/L	26155	Standard
|	**Cu**	63	609195.7	3.5	**82.7702**	4.485	5.4	ug/L	25402	Standard
|	**Cu -1**	65	126100.2	2.0	**38.8721**	0.251	0.6	ug/L	479	Standard
|	**Zn**	66	71406.1	2.0	**39.6039**	0.246	0.6	ug/L	604	Standard
|	**Zn -1**	67	12076.1	1.5	**40.2160**	0.516	1.3	ug/L	115	Standard
|	**Zn -2**	68	50679.4	2.0	**39.2982**	0.332	0.8	ug/L	605	Standard
|	**As**	75	86108.9	0.6	**41.7363**	0.797	1.9	ug/L	12853	Standard
|	**As-1**	75	69480.4	0.4	**38.0254**	0.578	1.5	ug/L	-4	Standard
|	**Se**	77	5965.2	1.6	**49.1110**	1.708	3.5	ug/L	98	Standard
|	**Se -1**	78	32413.4	0.8	**55.8142**	1.083	1.9	ug/L	12897	Standard
|	**Br**	79	22747.4	4.1				ug/L	2838	Standard
|	**Se -2**	82	6241.7	3.0	**38.5208**	1.054	2.7	ug/L	35	Standard
	Kr	83	225.3	16.2				ug/L	29	Standard
	Y	89	462703.8	2.2				ug/L	601935	Standard
|	**Rh**	103	86425.7	1.5				ug/L	108502	Standard
|	**Ni -3**	58	59888.4	0.8	**39.6749**	1.035	2.6	ug/L	68	KED
|	**Ni -4**	60	26236.7	1.1	**39.6800**	0.484	1.2	ug/L	30	KED
|	**Ni -5**	62	3903.2	0.3	**39.0309**	0.699	1.8	ug/L	9	KED
|	**Cu -2**	63	64578.3	0.1	**38.5303**	0.710	1.8	ug/L	172	KED
|	**Cu -3**	65	30472.1	0.7	**38.3117**	0.488	1.3	ug/L	89	KED
|	**Zn -3**	66	7513.6	1.2	**38.9758**	0.751	1.9	ug/L	65	KED
|	**Zn -4**	67	1231.4	2.2	**38.3560**	0.754	2.0	ug/L	10	KED
|	**Zn -5**	68	5646.1	1.5	**39.0747**	0.268	0.7	ug/L	39	KED
|	**As-2**	75	5140.6	1.6	**37.9267**	0.183	0.5	ug/L	1	KED
	Y-1	89	43242.7	0.7				ug/L	50921	KED
	Rh-1	103	27724.5	1.8				ug/L	32421	KED
\>	**Ge**	72	324610.1	1.8				ug/L	400120	Standard
\>	**In**	115	298631.8	0.9				ug/L	376660	Standard
\>	**Ge-1**	72	19300.0	1.9				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.356	
|	Ni -1	60	98.400	
|	Ni -2	62	1392.475	
|	Cu	63	206.926	
|	Cu -1	65	97.180	
|	Zn	66	99.010	
|	Zn -1	67	100.540	
|	Zn -2	68	98.245	
|	As	75	104.341	
|	As-1	75	95.063	
|	Se	77	122.777	
|	Se -1	78	139.535	
|	Br	79		

	Se -2	82	96.302	
	Kr	83		
	Y	89		
	Rh	103		
	Ni -3	58	99.187	
	Ni -4	60	99.200	
	Ni -5	62	97.577	
	Cu -2	63	96.326	
	Cu -3	65	95.779	
	Zn -3	66	97.439	
	Zn -4	67	95.890	
	Zn -5	68	97.687	
	As-2	75	94.817	
	Y-1	89		
	Rh-1	103		
>	Ge	72		81.128
>	In	115		79.284
>	Ge-1	72		88.250

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, June 01, 2024 15:28:53
Report Date/Time: Saturday, June 01, 2024 15:31:13
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 7.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	172435.7	0.9	**20.1093**	0.178	0.9	ug/L	-4073	Standard
|	**Ni -1**	60	71725.3	0.9	**20.2155**	0.107	0.5	ug/L	155	Standard
|	**Ni -2**	62	175904.5	1.4	**241.4276**	6.835	2.8	ug/L	26155	Standard
|	**Cu**	63	326766.1	0.8	**38.3288**	0.722	1.9	ug/L	25402	Standard
|	**Cu -1**	65	72500.5	1.8	**19.8621**	0.335	1.7	ug/L	479	Standard
|	**Zn**	66	41119.4	0.4	**20.1670**	0.201	1.0	ug/L	604	Standard
|	**Zn -1**	67	6875.3	2.1	**20.2441**	0.451	2.2	ug/L	115	Standard
|	**Zn -2**	68	29163.1	0.4	**19.9368**	0.196	1.0	ug/L	605	Standard
|	**As**	75	55265.1	1.5	**21.3616**	0.232	1.1	ug/L	12853	Standard
|	**As-1**	75	39976.4	2.0	**19.4513**	0.170	0.9	ug/L	-4	Standard
|	**Se**	77	3425.7	1.2	**24.7690**	0.446	1.8	ug/L	98	Standard
|	**Se -1**	78	24537.7	0.5	**29.1035**	0.643	2.2	ug/L	12897	Standard
|	**Br**	79	14113.6	0.7				ug/L	2838	Standard
|	**Se -2**	82	3665.5	1.8	**20.0412**	0.162	0.8	ug/L	35	Standard
	Kr	83	100.0	13.2				ug/L	29	Standard
	Y	89	531729.4	0.8				ug/L	601935	Standard
|	**Rh**	103	97557.0	0.8				ug/L	108502	Standard
|	**Ni -3**	58	33387.4	1.1	**19.9609**	0.092	0.5	ug/L	68	KED
|	**Ni -4**	60	14445.3	2.3	**19.7202**	0.322	1.6	ug/L	30	KED
|	**Ni -5**	62	2175.2	2.6	**19.6401**	0.393	2.0	ug/L	9	KED
|	**Cu -2**	63	36886.9	2.7	**19.8537**	0.463	2.3	ug/L	172	KED
|	**Cu -3**	65	17214.0	0.8	**19.5270**	0.210	1.1	ug/L	89	KED
|	**Zn -3**	66	4381.7	1.1	**20.4287**	0.221	1.1	ug/L	65	KED
|	**Zn -4**	67	714.0	7.2	**19.9518**	1.409	7.1	ug/L	10	KED
|	**Zn -5**	68	3128.0	1.5	**19.4015**	0.168	0.9	ug/L	39	KED
|	**As-2**	75	2797.6	4.0	**18.6358**	0.840	4.5	ug/L	1	KED
	Y-1	89	47181.8	1.2				ug/L	50921	KED
	Rh-1	103	30327.2	0.8				ug/L	32421	KED
| >	**Ge**	72	364989.4	1.4				ug/L	400120	Standard
| >	**In**	115	333450.0	1.5				ug/L	376660	Standard
| >	**Ge-1**	72	21376.3	0.7				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.546	
|	Ni -1	60	101.077	
|	Ni -2	62	1207.138	
|	Cu	63	191.644	
|	Cu -1	65	99.311	
|	Zn	66	100.835	
|	Zn -1	67	101.221	
|	Zn -2	68	99.684	
|	As	75	106.808	
|	As-1	75	97.256	
|	Se	77	123.845	
|	Se -1	78	145.518	
|	Br	79		

	Se -2	82	100.206	
	Kr	83		
	Y	89		
	Rh	103		
	Ni -3	58	99.805	
	Ni -4	60	98.601	
	Ni -5	62	98.200	
	Cu -2	63	99.268	
	Cu -3	65	97.635	
	Zn -3	66	102.144	
	Zn -4	67	99.759	
	Zn -5	68	97.008	
	As-2	75	93.179	
	Y-1	89		
	Rh-1	103		
>	Ge	72		91.220
>	In	115		88.528
>	Ge-1	72		97.744

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, June 01, 2024 15:33:34
Report Date/Time: Saturday, June 01, 2024 15:35:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240601B.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240601B\QC Std 8.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5502.6	0.7	**-0.2719**	0.010	3.8	ug/L	-4073	Standard
|	**Ni -1**	60	163.3	5.7	**0.0362**	0.003	7.2	ug/L	155	Standard
|	**Ni -2**	62	127145.6	0.2	**169.2425**	1.735	1.0	ug/L	26155	Standard
|	**Cu**	63	129432.7	0.1	**14.1070**	0.134	1.0	ug/L	25402	Standard
|	**Cu -1**	65	735.7	4.3	**0.1726**	0.007	4.0	ug/L	479	Standard
|	**Zn**	66	717.0	1.9	**0.1195**	0.010	8.4	ug/L	604	Standard
|	**Zn -1**	67	242.3	9.0	**0.4921**	0.066	13.5	ug/L	115	Standard
|	**Zn -2**	68	657.3	0.1	**0.1017**	0.004	3.8	ug/L	605	Standard
|	**As**	75	15063.8	0.9	**1.7690**	0.026	1.5	ug/L	12853	Standard
|	**As-1**	75	-47.6	272.5	**-0.0282**	0.064	227.3	ug/L	-4	Standard
|	**Se**	77	515.3	6.7	**3.2515**	0.294	9.0	ug/L	98	Standard
|	**Se -1**	78	15201.1	0.2	**8.6695**	0.282	3.2	ug/L	12897	Standard
|	**Br**	79	11603.4	0.6				ug/L	2838	Standard
|	**Se -2**	82	57.7	9.6	**0.1629**	0.028	17.3	ug/L	35	Standard
	Kr	83	63.0	17.5				ug/L	29	Standard
	Y	89	522005.8	1.1				ug/L	601935	Standard
|	**Rh**	103	96265.9	0.8				ug/L	108502	Standard
|	**Ni -3**	58	75.0	3.4	**0.0409**	0.002	4.5	ug/L	68	KED
|	**Ni -4**	60	35.0	10.3	**0.0472**	0.005	11.1	ug/L	30	KED
|	**Ni -5**	62	28.3	19.4	**0.2743**	0.050	18.1	ug/L	9	KED
|	**Cu -2**	63	212.3	8.3	**0.0922**	0.010	11.3	ug/L	172	KED
|	**Cu -3**	65	82.0	11.8	**0.0721**	0.012	16.3	ug/L	89	KED
|	**Zn -3**	66	68.3	5.9	**0.1378**	0.022	15.8	ug/L	65	KED
|	**Zn -4**	67	8.0	25.0	**-0.0341**	0.057	166.4	ug/L	10	KED
|	**Zn -5**	68	47.3	31.7	**0.0179**	0.095	530.4	ug/L	39	KED
|	**As-2**	75	2.7	21.7	**0.0143**	0.004	27.1	ug/L	1	KED
	Y-1	89	46932.6	0.8				ug/L	50921	KED
	Rh-1	103	29947.4	1.2				ug/L	32421	KED
| >	**Ge**	72	359629.0	0.9				ug/L	400120	Standard
| >	**In**	115	329065.3	0.8				ug/L	376660	Standard
| >	**Ge-1**	72	21119.3	0.8				ug/L	21870	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	Cu	63		
|	Cu -1	65		
|	Zn	66		
|	Zn -1	67		
|	Zn -2	68		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		

|	Se -2	82	
	Kr	83	
	Y	89	
|	Rh	103	
|	Ni -3	58	
|	Ni -4	60	
|	Ni -5	62	
|	Cu -2	63	
|	Cu -3	65	
|	Zn -3	66	
|	Zn -4	67	
|	Zn -5	68	
|	As-2	75	
	Y-1	89	
	Rh-1	103	
| >	Ge	72	89.880
| >	In	115	87.364
| >	Ge-1	72	96.568

Work continued from Page

Std Name	Lab ID	Source	Source ID	Exp	Initial Conc ppm	Initial Vol mL	Final Conc ppm	Final Vol mL	Comments	Prep	Date
6020 10x	TM12-014-01	IV6020Cal-1	TZMEB726406	2-9-25	20	.05/1.0	2	50	5% HNO3	Kam	5-23-24
6020 100x	TM12-014-02	↓	↓	↓	1	0.1	.2	↓	↓	↓	↓
Std 1	TM12 014-03	6020 100x	TI2-014-02	6-11-24	.2	.05	.0002	50	5% HNO3	Kam	5-23-24
2	04	↓	↓	↓	↓	.175	.0005	↓	↓	↓	↓
3	05	6020 10x	TI2-014-01		2	.05	.002				
4	06	IV6020Cal-1	↓		↓	.125	.005				
5	07	↓	TZMEB726406	2-9-25	20	.05	.02				
6	08		↓	↓	↓	.10	.04				
7	09					.25	.10				
ICV *	16	IVPECH14	TZMEB724233	5-28-25	10	.25	.05				
Std 1	TM12-014-11	6020 100x	TI2 014-02	6-11-24	.2	.05	.0002	50	5% HNO3	Kam	5-23-24
2	12	↓	↓	↓	↓	.125	.0005	↓	↓	↓	↓
3	13	6020 10x	TI2-014-01		2	.05	.002				
4	14	↓	↓		↓	.125	.005				
5	15	IV6020Cal-1	TZMEB726406	2-9-25	20	.05	.02				
6	16	↓	↓	↓	↓	.10	.04				
7	17					.25	.10				
ICV	18	IVPECH14	TZMEB724233	5-28-25	10	.25	.05				
Std 1	TM12-014-19	6020 100x	TI2-014-02	6-11-24	.2	.05	.0002	50	5% HNO3	Kam	6-3-24
2	20	↓	↓	↓	↓	.125	.0005	↓	↓	↓	↓
3	21	6020 10x	TI2-014-01		2	.05	.002				
4	22	↓	↓		↓	.125	.005				
5	23	IV6020Cal-1	TZMEB726406	2-9-25	20	.05	.02				
6	24	↓	↓	↓	↓	.10	.04				
7	25					.25	.10				
ICV	26	IVPECH14	TZMEB724233	5-28-25	10	.25	.05				

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

DIGESTION DATE:	5-29-24
ANALYST:	KDM

QC BATCH #:	05-300-07b
MATRIX:	water
ANALYSIS METHOD:	7015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MB0529WM1	45mL	50			
SB 0529 WM1					
05-300-07b					
07bD					
07bMS					
07bMSD					
05-286-02c					
04c					
05-311-01b					
02b					
03b					
04c					
05c					
05-311-07c					FF solids

SPIKE ID# IV6020(al-1

VOL ADDED: .25mL

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 29, 2024

Robert Trahan
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 5147-006-18
Laboratory Reference No. 2408-224

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on August 19, 2024.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

Case Narrative

Samples were collected on August 19, 2024 and received by the laboratory on August 19, 2024. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2B-240819	08-224-01	Water	8-19-24	8-19-24	
MW-3A-240819	08-224-02	Water	8-19-24	8-19-24	
MW-6-240819	08-224-03	Water	8-19-24	8-19-24	
MW-8-240819	08-224-04	Water	8-19-24	8-19-24	
DUP-240819	08-224-05	Water	8-19-24	8-19-24	

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240819**					
Laboratory ID:	08-224-01					
Naphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**0.17**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**0.12**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**0.016**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**0.017**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**0.010**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*27-106*				
Pyrene-d10	*80*	*37-125*				
Terphenyl-d14	*79*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-3A-240819**					
Laboratory ID:	08-224-02					
Naphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*45*	*27-106*				
Pyrene-d10	*85*	*37-125*				
Terphenyl-d14	*90*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-6-240819**					
Laboratory ID:	08-224-03					
Naphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**ND**	0.094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.0094	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*38*	*27-106*				
Pyrene-d10	*71*	*37-125*				
Terphenyl-d14	*73*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-8-240819**					
Laboratory ID:	08-224-04					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**ND**	0.095	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.0095	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*50*	*27-106*				
Pyrene-d10	*71*	*37-125*				
Terphenyl-d14	*73*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-240819**					
Laboratory ID:	08-224-05					
Naphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**ND**	0.093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.0093	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*42*	*27-106*				
Pyrene-d10	*73*	*37-125*				
Terphenyl-d14	*75*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240819**					
Laboratory ID:	08-224-01					
Arsenic	**6.9**	5.6	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Client ID:	**MW-3A-240819**					
Laboratory ID:	08-224-02					
Arsenic	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Client ID:	**MW-6-240819**					
Laboratory ID:	08-224-03					
Arsenic	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Client ID:	**MW-8-240819**					
Laboratory ID:	08-224-04					
Arsenic	**17**	5.6	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Client ID:	**DUP-240819**					
Laboratory ID:	08-224-05					
Arsenic	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	5.6	EPA 200.8	8-26-24	8-26-24	

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-2B-240819**					
Laboratory ID:	08-224-01					
Arsenic	**5.9**	5.0	EPA 200.8		8-26-24	
Nickel	**ND**	5.0	EPA 200.8		8-26-24	
Client ID:	**MW-3A-240819**					
Laboratory ID:	08-224-02					
Arsenic	**ND**	5.0	EPA 200.8		8-26-24	
Nickel	**ND**	5.0	EPA 200.8		8-26-24	
Client ID:	**MW-6-240819**					
Laboratory ID:	08-224-03					
Arsenic	**ND**	5.0	EPA 200.8		8-26-24	
Nickel	**ND**	5.0	EPA 200.8		8-26-24	
Client ID:	**MW-8-240819**					
Laboratory ID:	08-224-04					
Arsenic	**19**	5.0	EPA 200.8		8-26-24	
Nickel	**ND**	5.0	EPA 200.8		8-26-24	
Client ID:	**DUP-240819**					
Laboratory ID:	08-224-05					
Arsenic	**ND**	5.0	EPA 200.8		8-26-24	
Nickel	**ND**	5.0	EPA 200.8		8-26-24	

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
2-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
1-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthylene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Acenaphthene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Fluorene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Phenanthrene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Anthracene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Fluoranthene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Pyrene	**ND**	0.10	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	8-23-24	8-23-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*27-106*				
Pyrene-d10	*80*	*37-125*				
Terphenyl-d14	*88*	*37-110*				

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.267**	**0.226**	0.500	0.500	53	45	36-95	17	34	
Acenaphthylene	**0.289**	**0.264**	0.500	0.500	58	53	51-103	9	26	
Acenaphthene	**0.254**	**0.242**	0.500	0.500	51	48	47-97	5	25	
Fluorene	**0.286**	**0.280**	0.500	0.500	57	56	51-105	2	23	
Phenanthrene	**0.346**	**0.342**	0.500	0.500	69	68	52-110	1	24	
Anthracene	**0.398**	**0.377**	0.500	0.500	80	75	55-104	5	24	
Fluoranthene	**0.444**	**0.428**	0.500	0.500	89	86	59-111	4	24	
Pyrene	**0.439**	**0.409**	0.500	0.500	88	82	59-110	7	22	
Benzo[a]anthracene	**0.524**	**0.489**	0.500	0.500	105	98	55-116	7	22	
Chrysene	**0.441**	**0.425**	0.500	0.500	88	85	59-111	4	23	
Benzo[b]fluoranthene	**0.460**	**0.420**	0.500	0.500	92	84	62-115	9	27	
Benzo(j,k)fluoranthene	**0.437**	**0.434**	0.500	0.500	87	87	59-117	1	23	
Benzo[a]pyrene	**0.467**	**0.441**	0.500	0.500	93	88	64-109	6	24	
Indeno(1,2,3-c,d)pyrene	**0.436**	**0.428**	0.500	0.500	87	86	58-114	2	22	
Dibenz[a,h]anthracene	**0.445**	**0.422**	0.500	0.500	89	84	63-114	5	24	
Benzo[g,h,i]perylene	**0.427**	**0.413**	0.500	0.500	85	83	61-110	3	24	
Surrogate:										
2-Fluorobiphenyl					*56*	*49*	*27-106*			
Pyrene-d10					*85*	*79*	*37-125*			
Terphenyl-d14					*83*	*80*	*37-110*			

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826WM1					
Arsenic	**ND**	3.3	EPA 200.8	8-26-24	8-26-24	
Nickel	**ND**	22	EPA 200.8	8-26-24	8-26-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-013-05										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-013-05										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**119**	**121**	111	111	ND	**107**	**109**	75-125	1	20	
Nickel	**108**	**108**	111	111	ND	**98**	**97**	75-125	0	20	

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

TOTAL METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV082624Y	50.0	48.3	3.4	+/- 10%
Nickel	ICV082624Y	50.0	48.7	2.6	+/- 10%
Arsenic	CCV1082624Y	40.0	38.9	2.8	+/- 10%
Nickel	CCV1082624Y	40.0	39.5	1.3	+/- 10%
Arsenic	CCV1082624Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV1082624Y	20.0	19.4	3.0	+/- 10%
Arsenic	CCV2082624Y	40.0	38.7	3.2	+/- 10%
Nickel	CCV2082624Y	40.0	37.7	5.7	+/- 10%
Arsenic	CCV2082624Y	20.0	19.6	2.0	+/- 10%
Nickel	CCV2082624Y	20.0	18.7	6.5	+/- 10%
Arsenic	CCV3082624Y	40.0	38.4	4.0	+/- 10%
Nickel	CCV3082624Y	40.0	38.0	5.0	+/- 10%
Arsenic	CCV3082624Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV3082624Y	20.0	18.7	6.5	+/- 10%
Arsenic	CCV4082624Y	40.0	38.2	4.5	+/- 10%
Nickel	CCV4082624Y	40.0	38.8	3.0	+/- 10%
Arsenic	CCV4082624Y	20.0	19.3	3.5	+/- 10%
Nickel	CCV4082624Y	20.0	19.2	4.0	+/- 10%

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826D1					
Arsenic	**ND**	3.0	EPA 200.8		8-26-24	
Nickel	**ND**	20	EPA 200.8		8-26-24	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-224-04										
	ORIG	DUP									
Arsenic	**18.6**	**18.7**	NA	NA		NA		NA	1	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-224-04										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**424**	**412**	400	400	18.6	**101**	**98**	75-125	3	20	
Nickel	**382**	**359**	400	400	ND	**96**	**90**	75-125	6	20	

Date of Report: August 29, 2024
Samples Submitted: August 19, 2024
Laboratory Reference: 2408-224
Project: 5147-006-18

DISSOLVED METALS
EPA 200.8
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppb)	Calc. Value	Percent Difference	Control Limits
Arsenic	ICV082624Y	50.0	48.3	3.4	+/- 10%
Nickel	ICV082624Y	50.0	48.7	2.6	+/- 10%
Arsenic	CCV1082624Y	40.0	38.9	2.8	+/- 10%
Nickel	CCV1082624Y	40.0	39.5	1.3	+/- 10%
Arsenic	CCV1082624Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV1082624Y	20.0	19.4	3.0	+/- 10%
Arsenic	CCV2082624Y	40.0	38.7	3.2	+/- 10%
Nickel	CCV2082624Y	40.0	37.7	5.7	+/- 10%
Arsenic	CCV2082624Y	20.0	19.6	2.0	+/- 10%
Nickel	CCV2082624Y	20.0	18.7	6.5	+/- 10%
Arsenic	CCV3082624Y	40.0	38.4	4.0	+/- 10%
Nickel	CCV3082624Y	40.0	38.0	5.0	+/- 10%
Arsenic	CCV3082624Y	20.0	19.4	3.0	+/- 10%
Nickel	CCV3082624Y	20.0	18.7	6.5	+/- 10%
Arsenic	CCV4082624Y	40.0	38.2	4.5	+/- 10%
Nickel	CCV4082624Y	40.0	38.8	3.0	+/- 10%
Arsenic	CCV4082624Y	20.0	19.3	3.5	+/- 10%
Nickel	CCV4082624Y	20.0	19.2	4.0	+/- 10%

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5147-006-18
Project Name: Dakota Creek Industries
Project Manager: Robert Trahan
Sampled by: Michael Ysaguirre

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 08-224

18

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total & Dissolved Arsenic + Nickel by EPA Method 200.8				% Moisture
1	MW-2B-240819	8/19/24	1330	H_2O	4									X									X				
2	MW-3A-240819		1200											X									X				
3	MW-6-240819		1110											X									X				
4	MW-8-240819		1450											X									X				
5	DUP-8240819		1115											X									X				

	Signature	Company	Date	Time
Relinquished		GeoEngineers	8/19/24	1737
Received	Nicole Sipliv	OSE	8/19/24	1737
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☒

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Sample/Cooler Receipt and Acceptance Checklist

Client: GES

Client Project Name/Number: 5147-006-18

OnSite Project Number: 08-224

Initiated by: MB

Date Initiated: 8/19/24

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	5
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	(Client)	Courier	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	(Yes)	No	N/A	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

COMPLETE DATA PACKAGE

- PAHs EPA 8270E/SIM
- Total Metals EPA 200.8
- Dissolved Metals by EPA 200.8

PAHs EPA 8270E/SIM

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823018.D
Acq On : 23 Aug 2024 2:49 pm
Operator : JP
Sample : 08-224-01 REX
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 23 15:07:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.985	136	303583	2000.00	ppb	0.00
5) Acenaphthene-d10	5.220	164	157679	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	269556	2000.00	ppb	0.01
16) Chrysene-d12	8.347	240	175491	2000.00	ppb	0.03
20) Perylene-d12	9.799	264	176403	2000.00	ppb	0.04
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.771	172	76834	591.89	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 59.19%			
10) Pyrene-d10	7.265	212	98209	799.86	ppb	0.03
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.99%			
17) Terphenyl-d14	7.418	244	68174	794.08	ppb	0.02
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.41%			
Target Compounds						Qvalue
2) Naphthalene	4.001	128	2062	11.90	ppb	53
8) Acenaphthene	5.244	153	4093	36.26	ppb	100
12) Phenanthrene	6.263	178	7526	43.20	ppb	97
13) Anthracene	6.298	178	15943	97.94	ppb	91
14) Fluoranthene	7.120	202	30404m	179.62	ppb	
15) Pyrene	7.274	202	22064m	126.64	ppb	
19) Chrysene	8.370	228	2273	17.38	ppb	81
21) Benzo[b]fluoranthene	9.416	252	2464m	17.54	ppb	
23) Benzo[a]pyrene	9.736	252	1282	10.98	ppb #	31

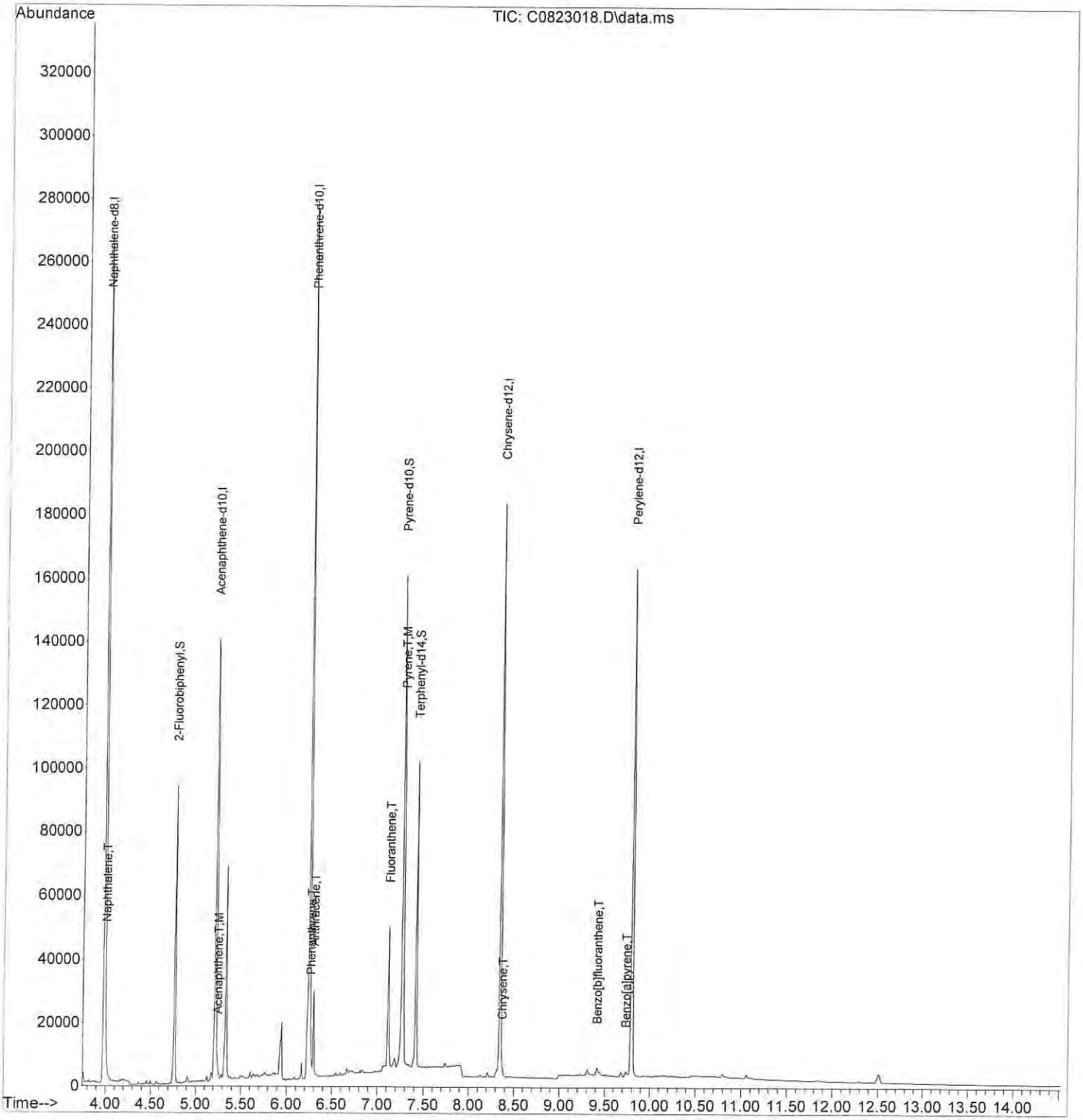
(#) = qualifier out of range (m) = manual integration (+) = signals summed

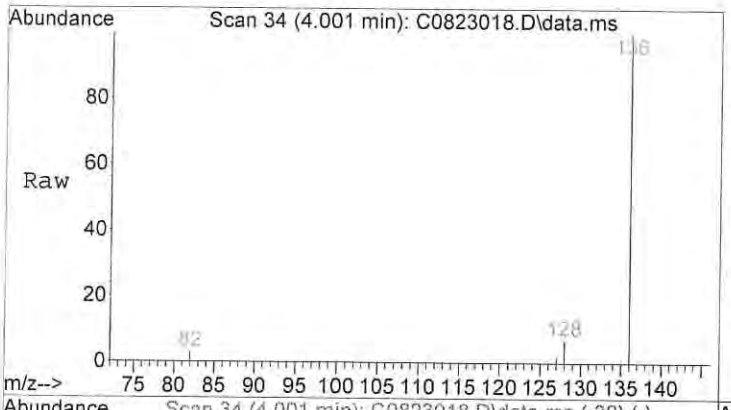
JD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823018.D
Acq On : 23 Aug 2024 2:49 pm
Operator : JP
Sample : 08-224-01 REX
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 23 15:07:43 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

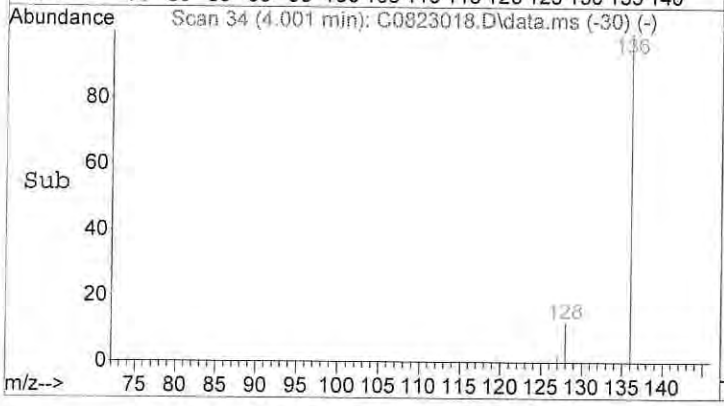


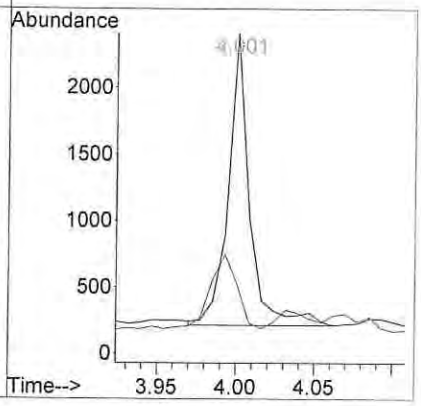


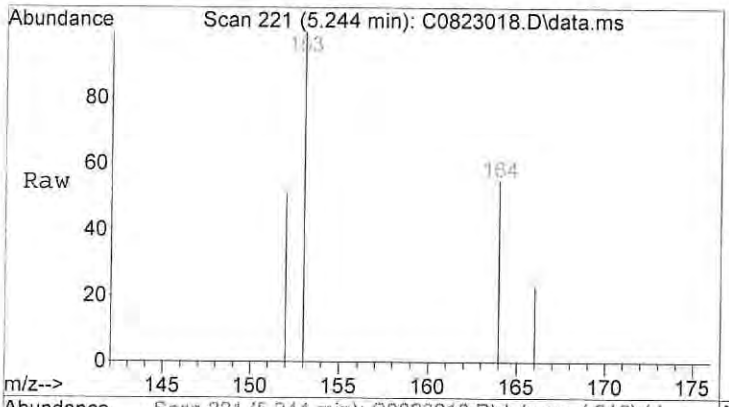
#2
Naphthalene
Concen: 11.90 ppb
RT: 4.001 min Scan# 34
Delta R.T. 0.007 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:128 Resp: 2062

Ion	Ratio	Lower	Upper
128	100		
127	31.1	0.0	32.5

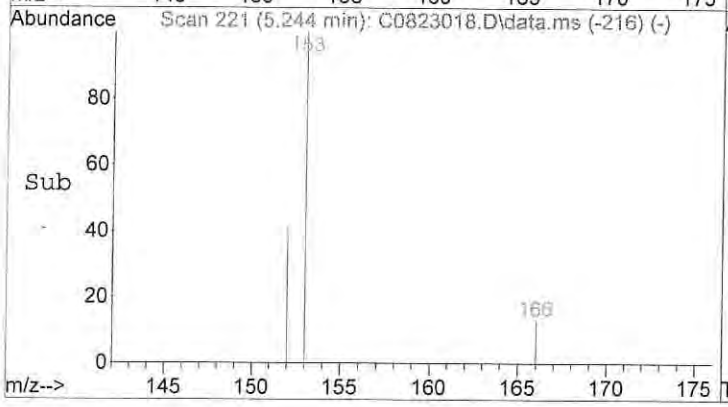


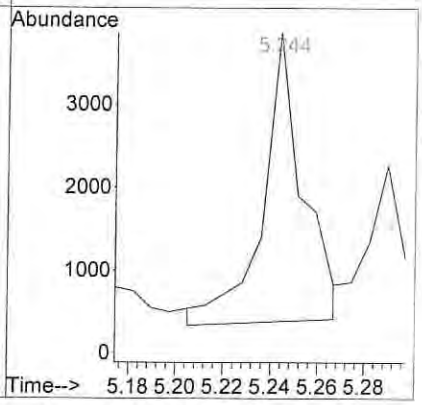


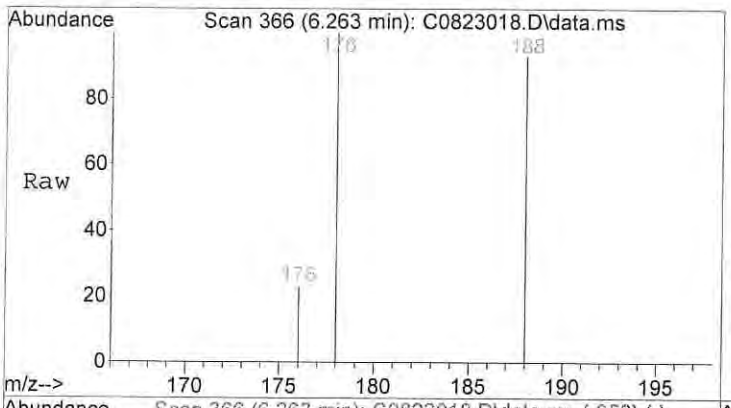


#8
Acenaphthene
Concen: 36.26 ppb
RT: 5.244 min Scan# 221
Delta R.T. 0.010 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:153 Resp: 4093



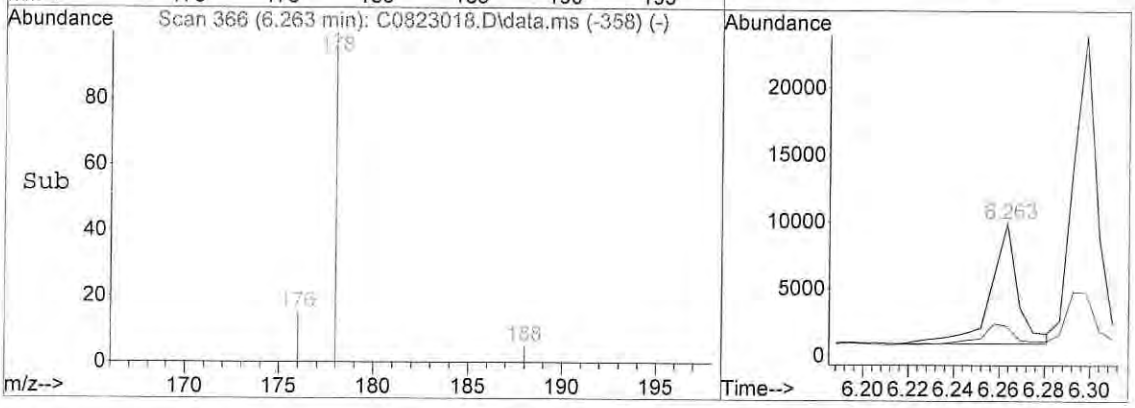


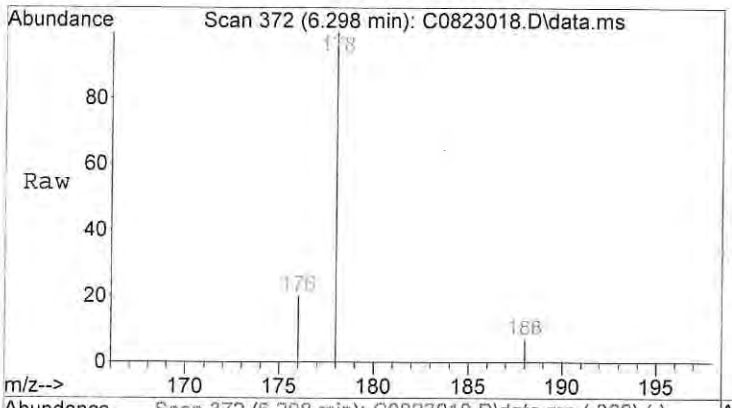


#12
Phenanthrene
Concen: 43.20 ppb
RT: 6.263 min Scan# 366
Delta R.T. 0.012 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:178 Resp: 7526

Ion	Ratio	Lower	Upper
178	100		
176	19.7	0.0	38.2

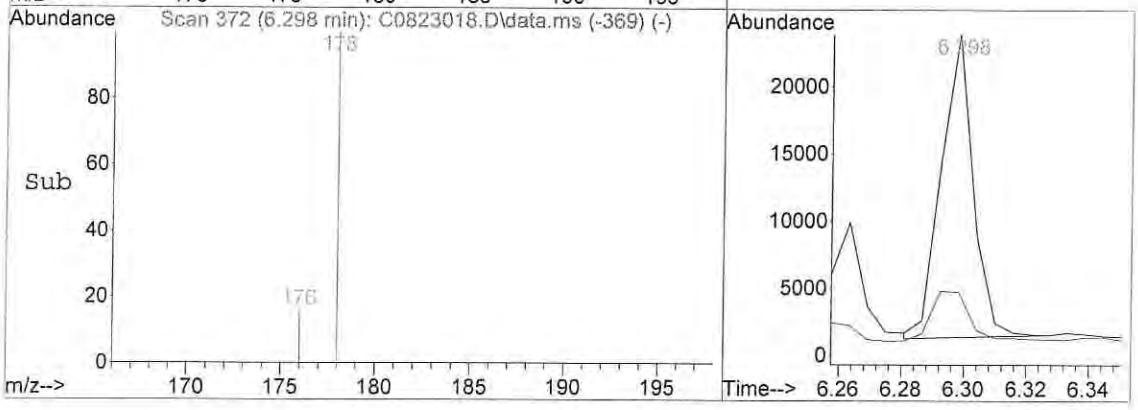


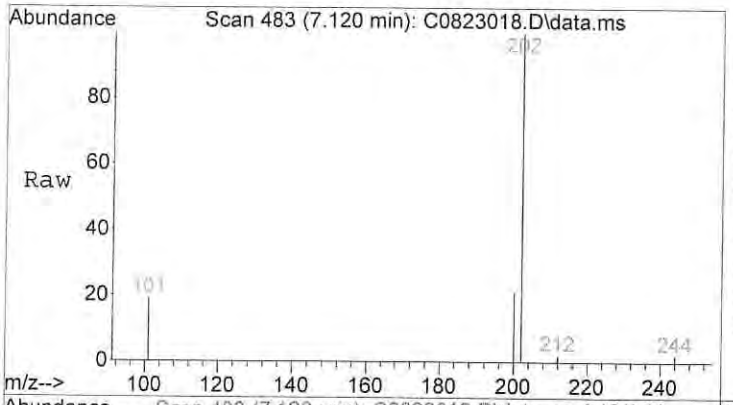


#13
Anthracene
Concen: 97.94 ppb
RT: 6.298 min Scan# 372
Delta R.T. 0.012 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:178 Resp: 15943

Ion	Ratio	Lower	Upper
178	100		
176	21.5	0.0	37.7

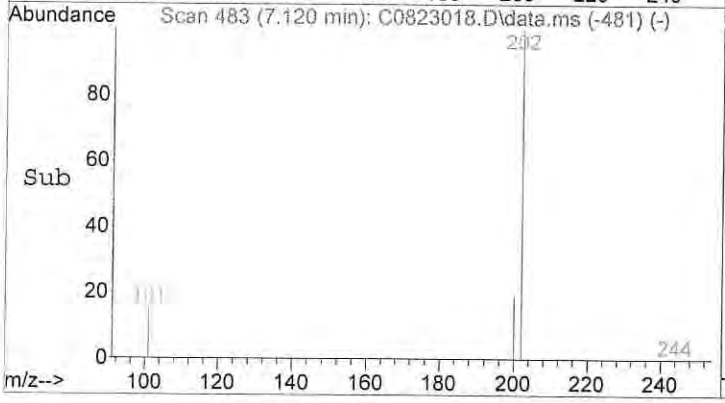


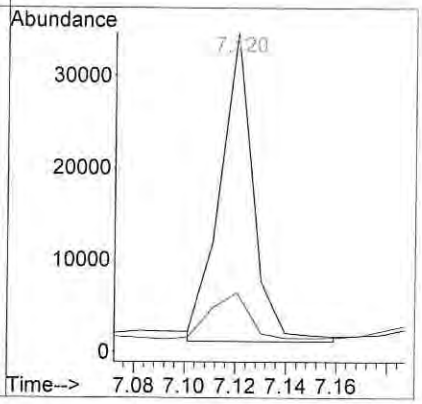


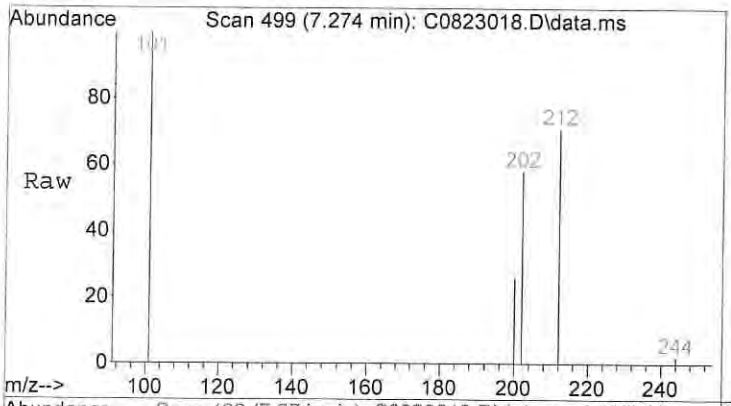
#14
Fluoranthene
Concen: 179.62 ppb m
RT: 7.120 min Scan# 483
Delta R.T. 0.048 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:202 Resp: 30404

Ion	Ratio	Lower	Upper
202	100		
101	17.8	0.0	31.5



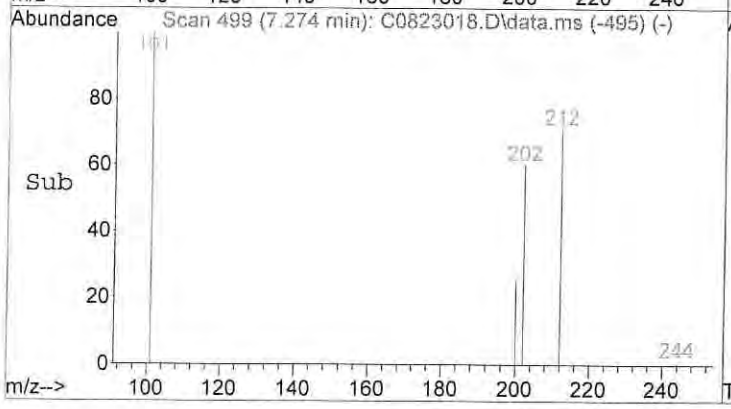


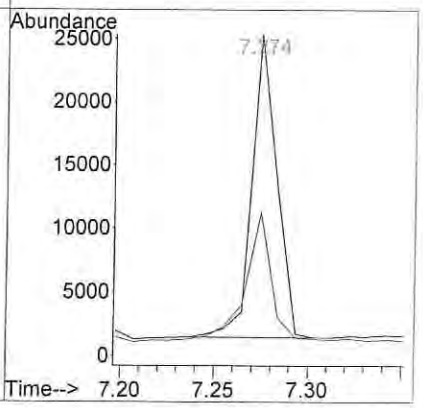


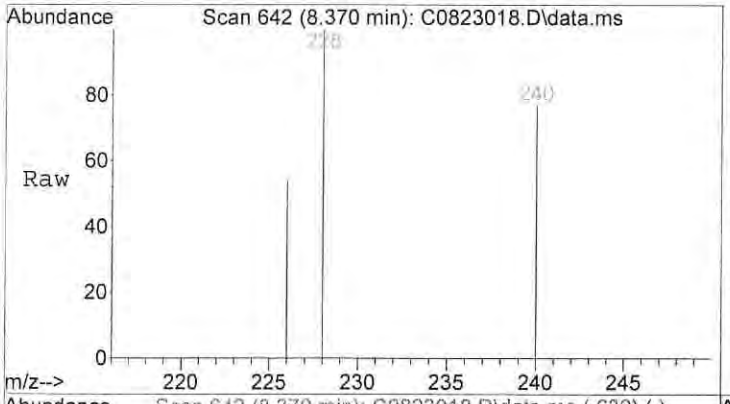
#15
Pyrene
Concen: 126.64 ppb m
RT: 7.274 min Scan# 499
Delta R.T. 0.029 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:202 Resp: 22064

Ion	Ratio	Lower	Upper
202	100		
200	47.7	0.0	39.9#



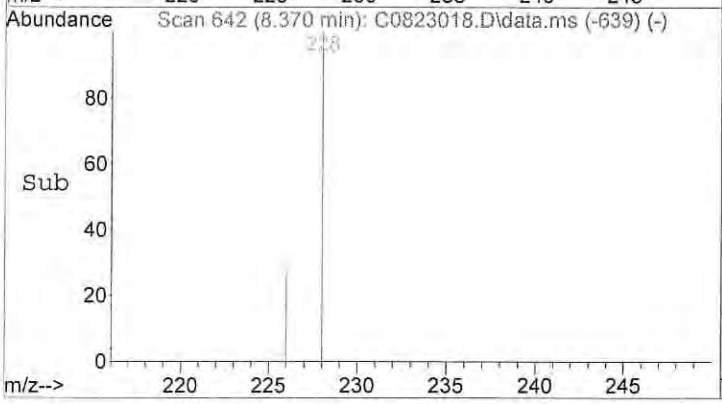


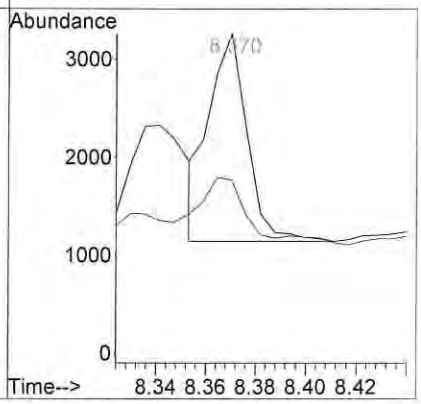


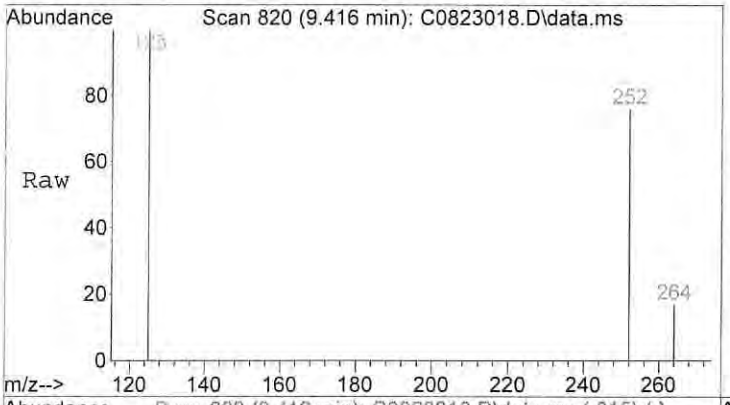
#19
Chrysene
Concen: 17.38 ppb
RT: 8.370 min Scan# 642
Delta R.T. 0.035 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:228 Resp: 2273

Ion	Ratio	Lower	Upper
228	100		
226	38.7	8.7	48.7



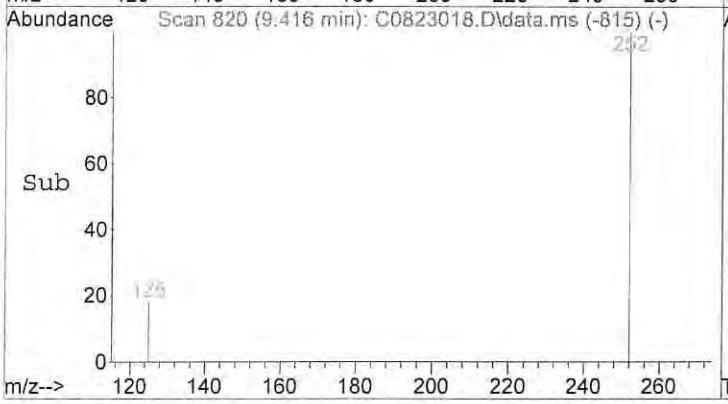


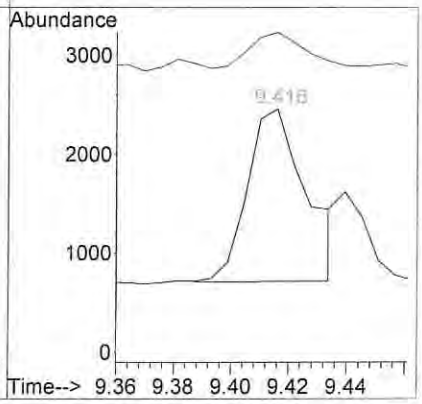


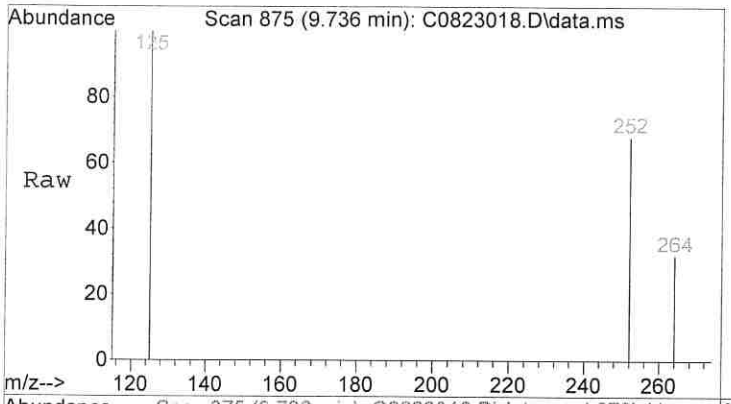
#21
Benzo[b]fluoranthene
Concen: 17.54 ppb m
RT: 9.416 min Scan# 820
Delta R.T. 0.040 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:252 Resp: 2464

Ion	Ratio	Lower	Upper
252	100		
125	0.0	0.0	31.5



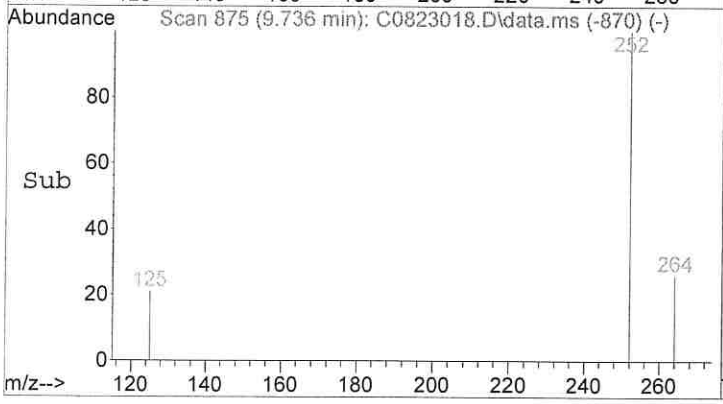


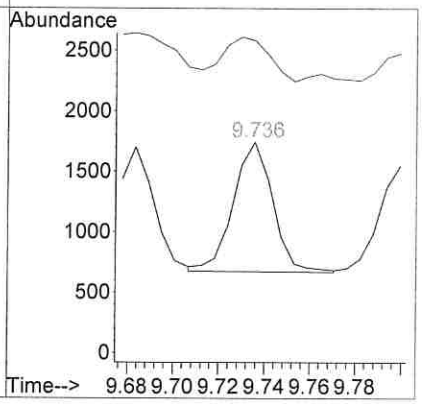


#23
Benzo[a]pyrene
Concen: 10.98 ppb
RT: 9.736 min Scan# 875
Delta R.T. 0.040 min
Lab File: C0823018.D
Acq: 23 Aug 24 2:49 pm

Tgt Ion:252 Resp: 1282

Ion	Ratio	Lower	Upper
252	100		
125	39.5	0.0	32.5#





Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823014.D
Acq On : 23 Aug 2024 1:12 pm
Operator : JP
Sample : 08-224-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 23 13:27:27 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

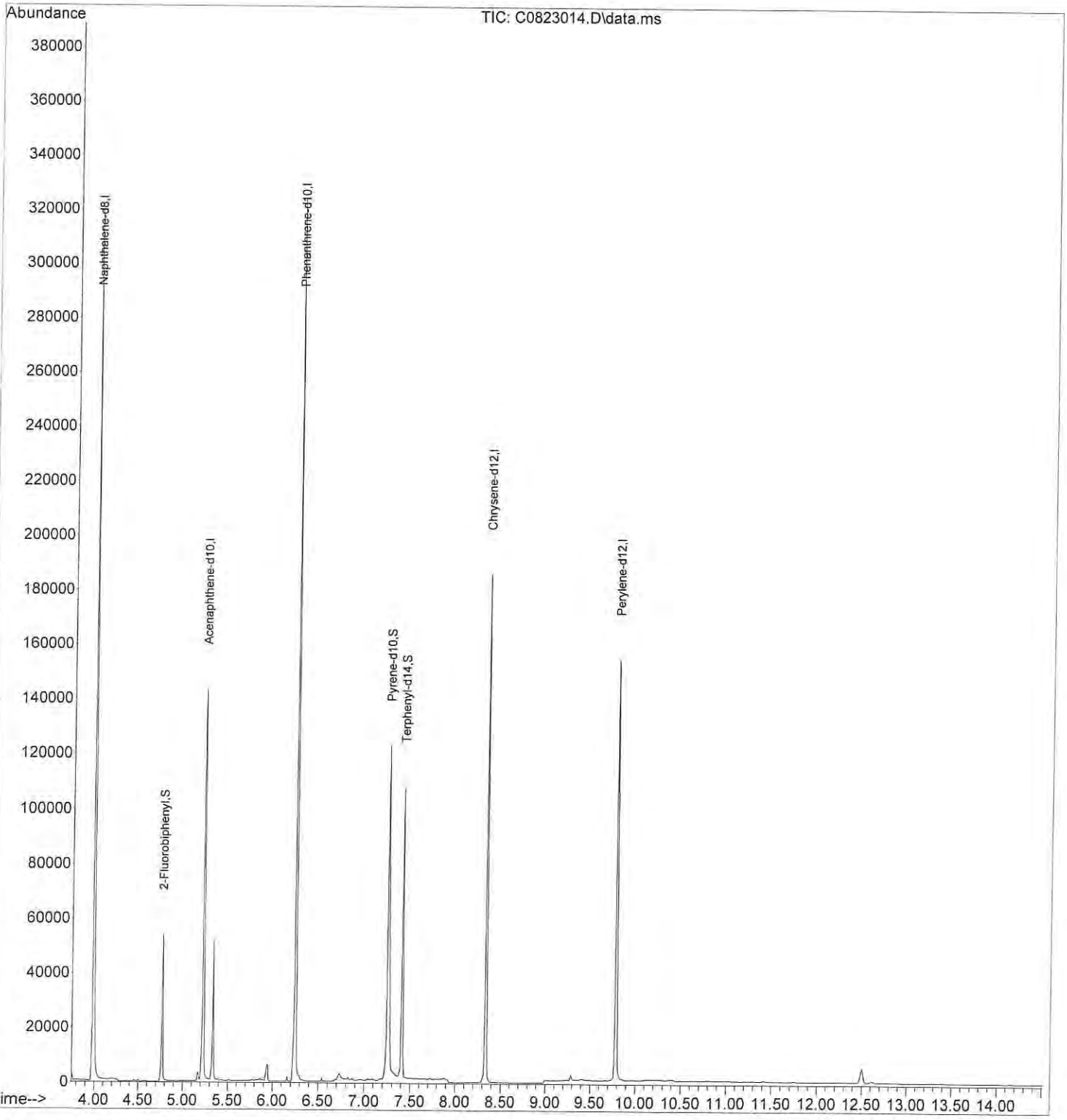
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.987	136	298541	2000.00	ppb	0.00
5) Acenaphthene-d10	5.227	164	151315	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	259320	2000.00	ppb	0.01
16) Chrysene-d12	8.336	240	184282	2000.00	ppb	0.02
20) Perylene-d12	9.783	264	185879	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.767	172	55920	448.90	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 44.89%			
10) Pyrene-d10	7.246	212	100266	848.85	ppb	0.01
Spiked Amount 1000.000	Range 40 - 110		Recovery = 84.89%			
17) Terphenyl-d14	7.409	244	81172	900.38	ppb	0.01
Spiked Amount 1000.000	Range 39 - 92		Recovery = 90.04%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.330	228	965	Below Cal		83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823014.D
Acq On : 23 Aug 2024 1:12 pm
Operator : JP
Sample : 08-224-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 23 13:27:27 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823015.D
Acq On : 23 Aug 2024 1:34 pm
Operator : JP
Sample : 08-224-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 23 13:49:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

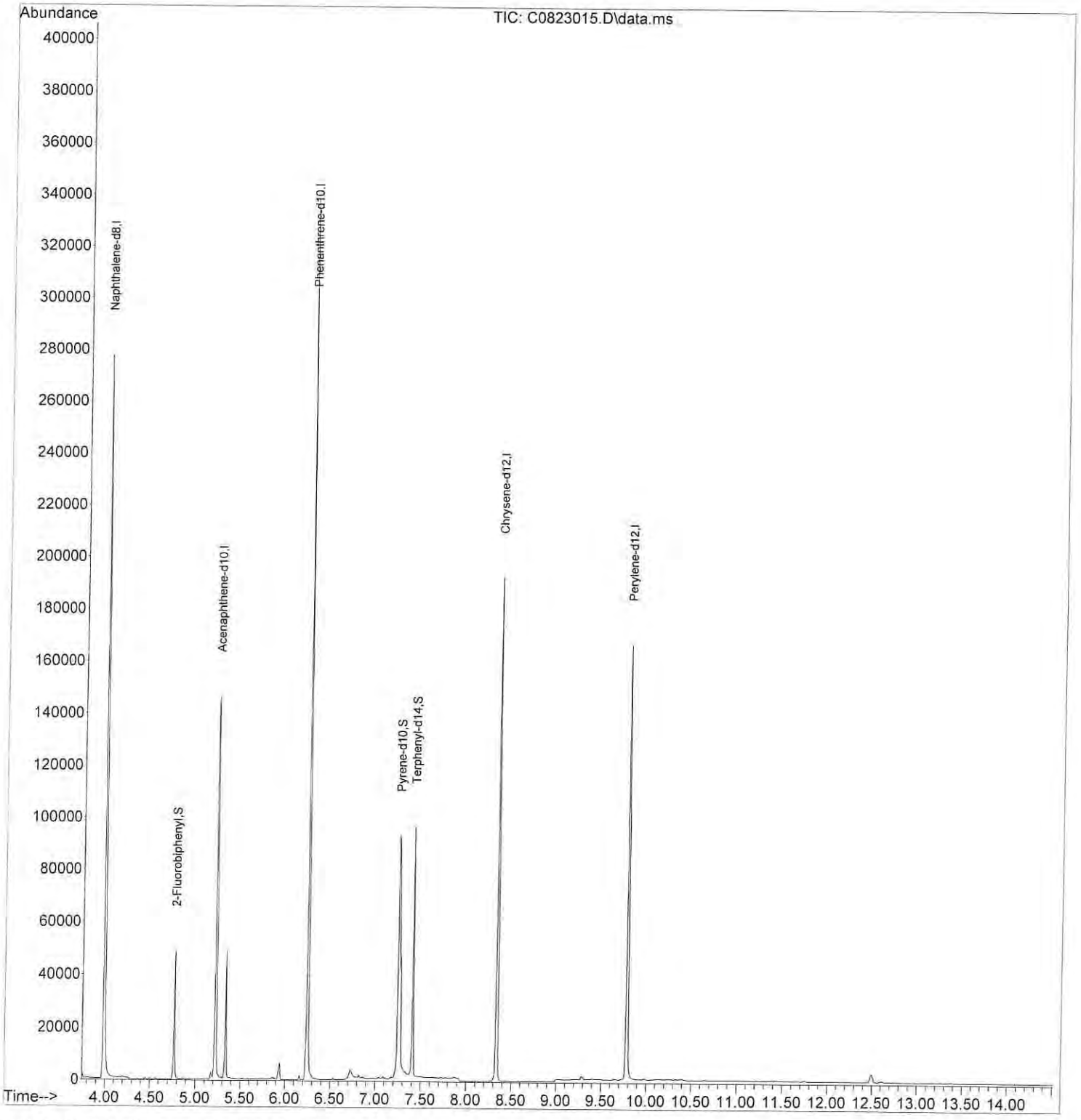
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	284441	2000.00	ppb	0.00
5) Acenaphthene-d10	5.227	164	148849	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	262638	2000.00	ppb	0.01
16) Chrysene-d12	8.336	240	187083	2000.00	ppb	0.02
20) Perylene-d12	9.783	264	188559	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.772	172	47035	383.83	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 38.38%			
10) Pyrene-d10	7.244	212	85347	713.41	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 71.34%			
17) Terphenyl-d14	7.408	244	67117	733.33	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 73.33%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.331	228	814	Below Cal		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823015.D
Acq On : 23 Aug 2024 1:34 pm
Operator : JP
Sample : 08-224-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 23 13:49:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823016.D
Acq On : 23 Aug 2024 1:56 pm
Operator : JP
Sample : 08-224-04
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 23 14:11:00 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

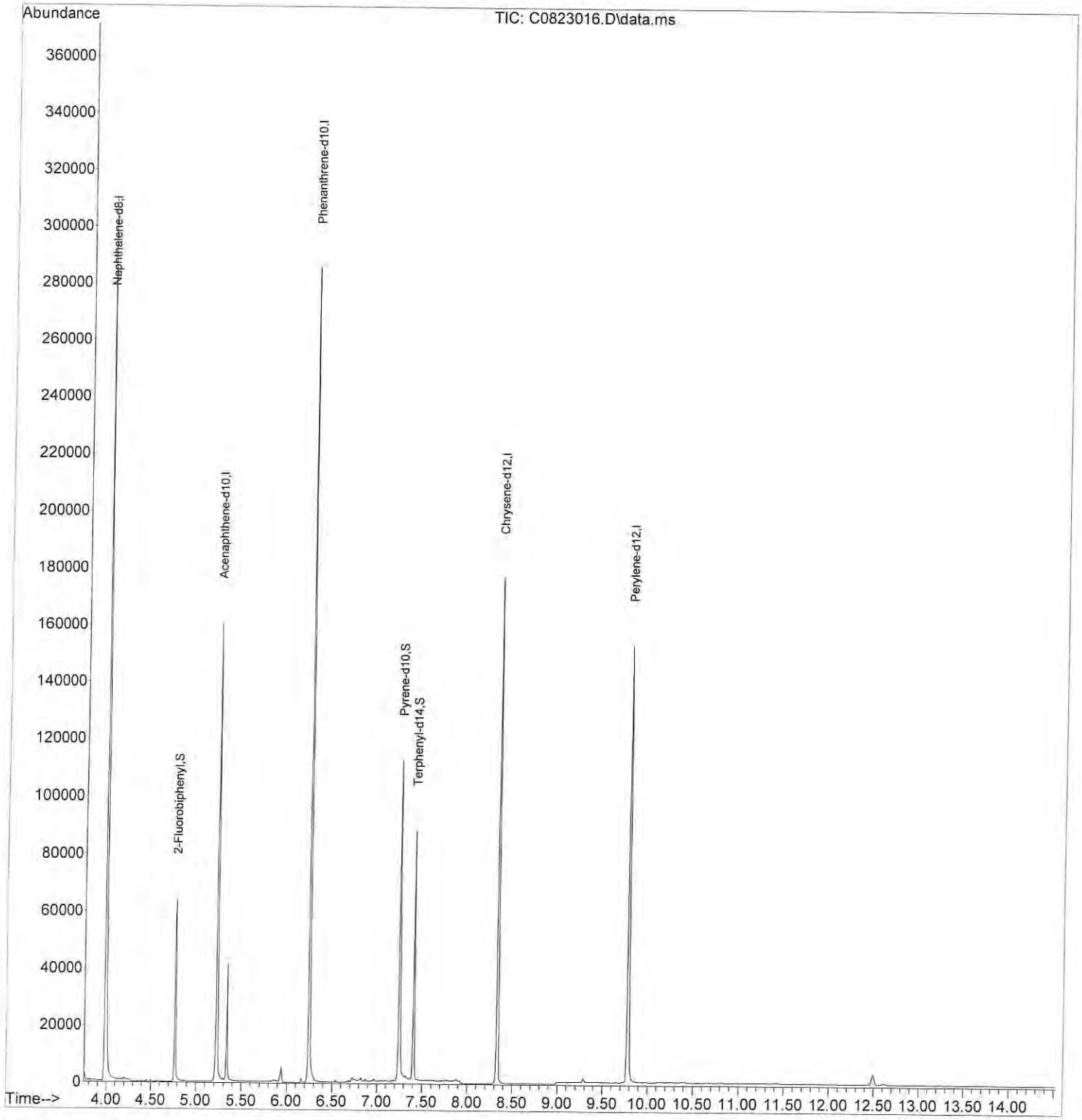
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	288916	2000.00	ppb	0.00
5) Acenaphthene-d10	5.221	164	145442	2000.00	ppb	0.00
9) Phenanthrene-d10	6.247	188	255001	2000.00	ppb	0.01
16) Chrysene-d12	8.335	240	180189	2000.00	ppb	0.02
20) Perylene-d12	9.782	264	180969	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.772	172	60332	503.87	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 50.39%			
10) Pyrene-d10	7.245	212	82434	709.70	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 70.97%			
17) Terphenyl-d14	7.409	244	64506	731.77	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 73.18%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.329	228	716	Below Cal		76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823016.D
Acq On : 23 Aug 2024 1:56 pm
Operator : JP
Sample : 08-224-04
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 23 14:11:00 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C240823\
Data File : C0823017.D
Acq On : 23 Aug 2024 2:18 pm
Operator : JP
Sample : 08-224-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 23 14:32:37 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

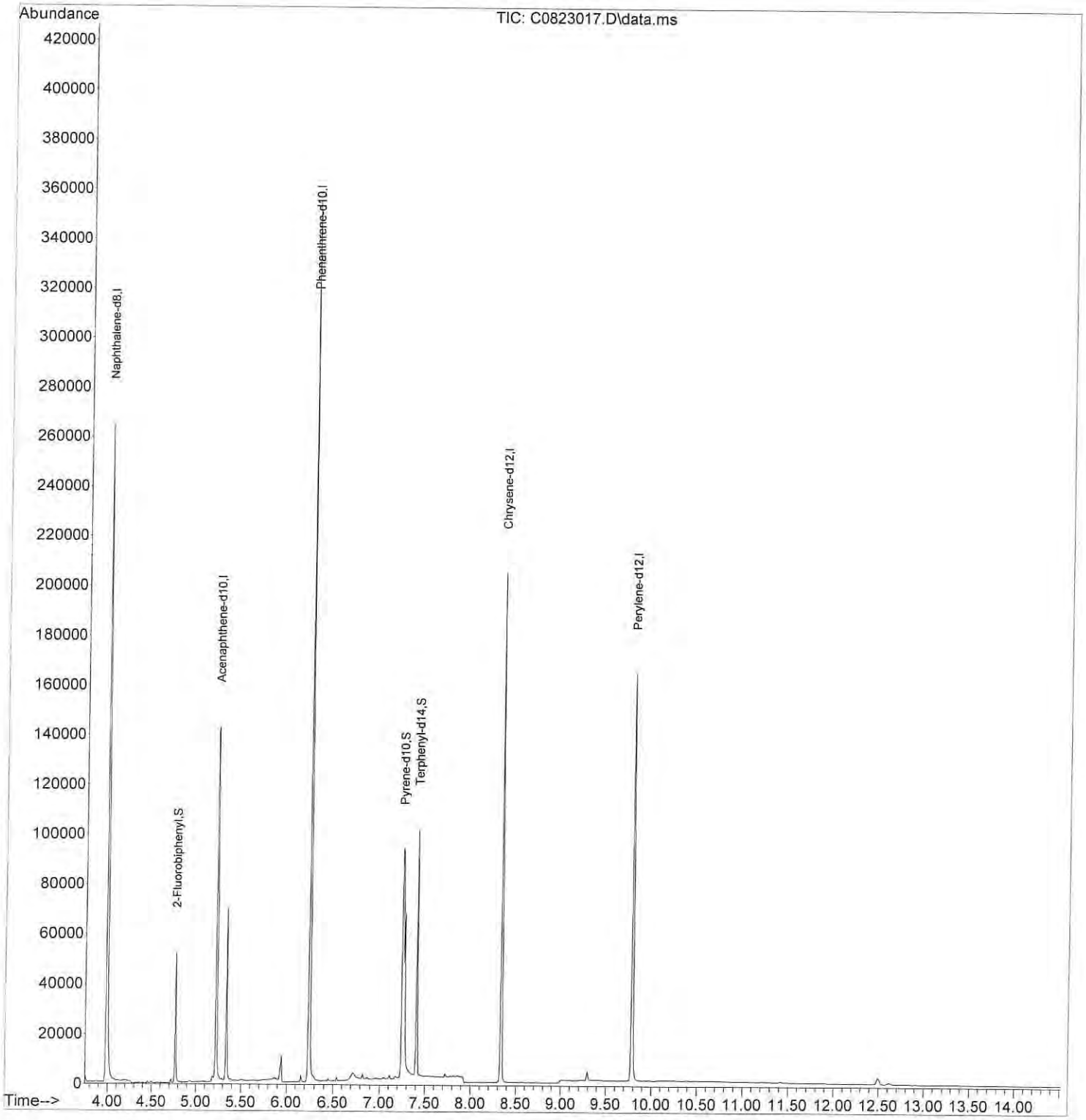
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.985	136	276828	2000.00	ppb	0.00
5) Acenaphthene-d10	5.227	164	146036	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	256428	2000.00	ppb	0.01
16) Chrysene-d12	8.336	240	185074	2000.00	ppb	0.02
20) Perylene-d12	9.789	264	182704	2000.00	ppb	0.03
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.767	172	50189	417.45	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 41.74%			
10) Pyrene-d10	7.244	212	85843	734.94	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 73.49%			
17) Terphenyl-d14	7.407	244	67906	750.01	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 75.00%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.336	228	796	Below Cal	#	50

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\C240823\
Data File : C0823017.D
Acq On : 23 Aug 2024 2:18 pm
Operator : JP
Sample : 08-224-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 23 14:32:37 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823012.D
Acq On : 23 Aug 2024 12:29 pm
Operator : JP
Sample : MB0823W1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 23 12:44:00 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

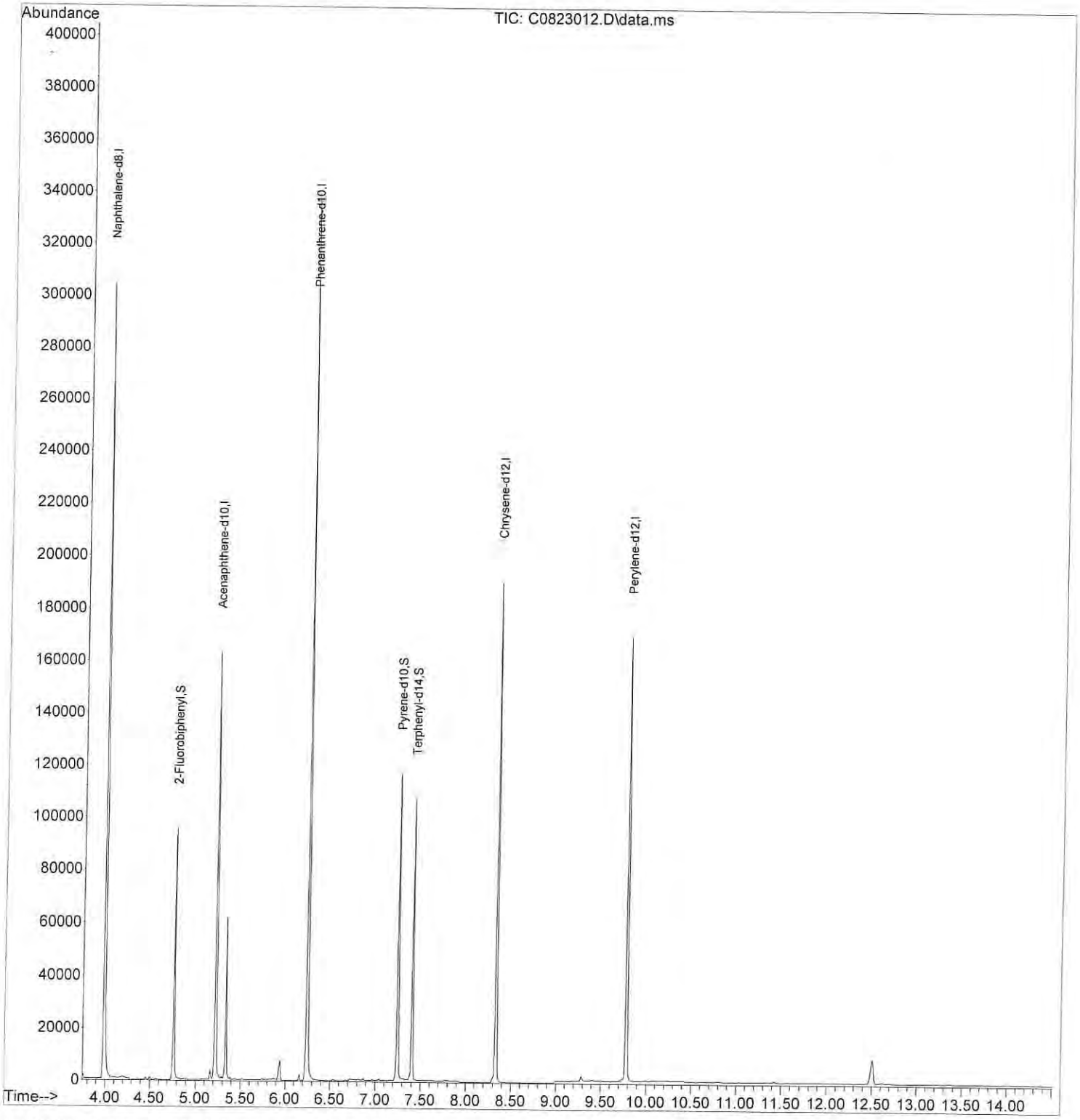
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.985	136	288142	2000.00	ppb	0.00
5) Acenaphthene-d10	5.220	164	151270	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	265799	2000.00	ppb	0.01
16) Chrysene-d12	8.330	240	189942	2000.00	ppb	0.01
20) Perylene-d12	9.783	264	189307	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.772	172	92529	742.99	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 74.30%			
10) Pyrene-d10	7.245	212	96818	799.68	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.97%			
17) Terphenyl-d14	7.408	244	81699	879.22	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 87.92%			
Target Compounds						Qvalue
18) Benzo[a]anthracene	8.330	228	839	Below Cal		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823012.D
Acq On : 23 Aug 2024 12:29 pm
Operator : JP
Sample : MB0823W1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 23 12:44:00 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823009.D
Acq On : 23 Aug 2024 11:24 am
Operator : JP
Sample : SB0823W1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 23 12:06:53 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.994	136	271798	2000.00	ppb	0.00
5) Acenaphthene-d10	5.227	164	145509	2000.00	ppb	0.00
9) Phenanthrene-d10	6.247	188	252884	2000.00	ppb	0.01
16) Chrysene-d12	8.336	240	185069	2000.00	ppb	0.02
20) Perylene-d12	9.788	264	184526	2000.00	ppb	0.03
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.771	172	67629	564.55	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 56.45%			
10) Pyrene-d10	7.254	212	98420	854.42	ppb	0.02
Spiked Amount 1000.000	Range 40 - 110		Recovery = 85.44%			
17) Terphenyl-d14	7.408	244	74968	828.03	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 82.80%			
Target Compounds						Qvalue
2) Naphthalene	4.002	128	41349	266.54	ppb	99
3) 2-Methylnaphthalene	4.504	142	21826	231.27	ppb	100
4) 1-Methylnaphthalene	4.568	142	24244	254.47	ppb	97
7) Acenaphthylene	5.127	152	46241	288.92	ppb	100
8) Acenaphthene	5.243	153	26513	254.49	ppb	100
11) Fluorene	5.605	166	33744	285.54	ppb	100
12) Phenanthrene	6.259	178	56623	346.48	ppb	96
13) Anthracene	6.293	178	60846	398.43	ppb	98
14) Fluoranthene	7.091	202	70577	444.44	ppb	90
15) Pyrene	7.264	202	71685	438.57	ppb	93
18) Benzo[a]anthracene	8.325	228	63234	524.22	ppb	94
19) Chrysene	8.359	228	60836	440.98	ppb	96
21) Benzo[b]fluoranthene	9.404	252	67654	460.27	ppb	89
22) Benzo(j,k)fluoranthene	9.428	252	62045	436.55	ppb	91
23) Benzo[a]pyrene	9.724	252	57027	466.99	ppb	88
24) Indeno(1,2,3-c,d)pyrene	10.789	276	56811m	436.48	ppb	
25) Dibenz[a,h]anthracene	10.819	278	59270	444.63	ppb	85
26) Benzo[g,h,i]perylene	11.043	276	58904	427.14	ppb	78

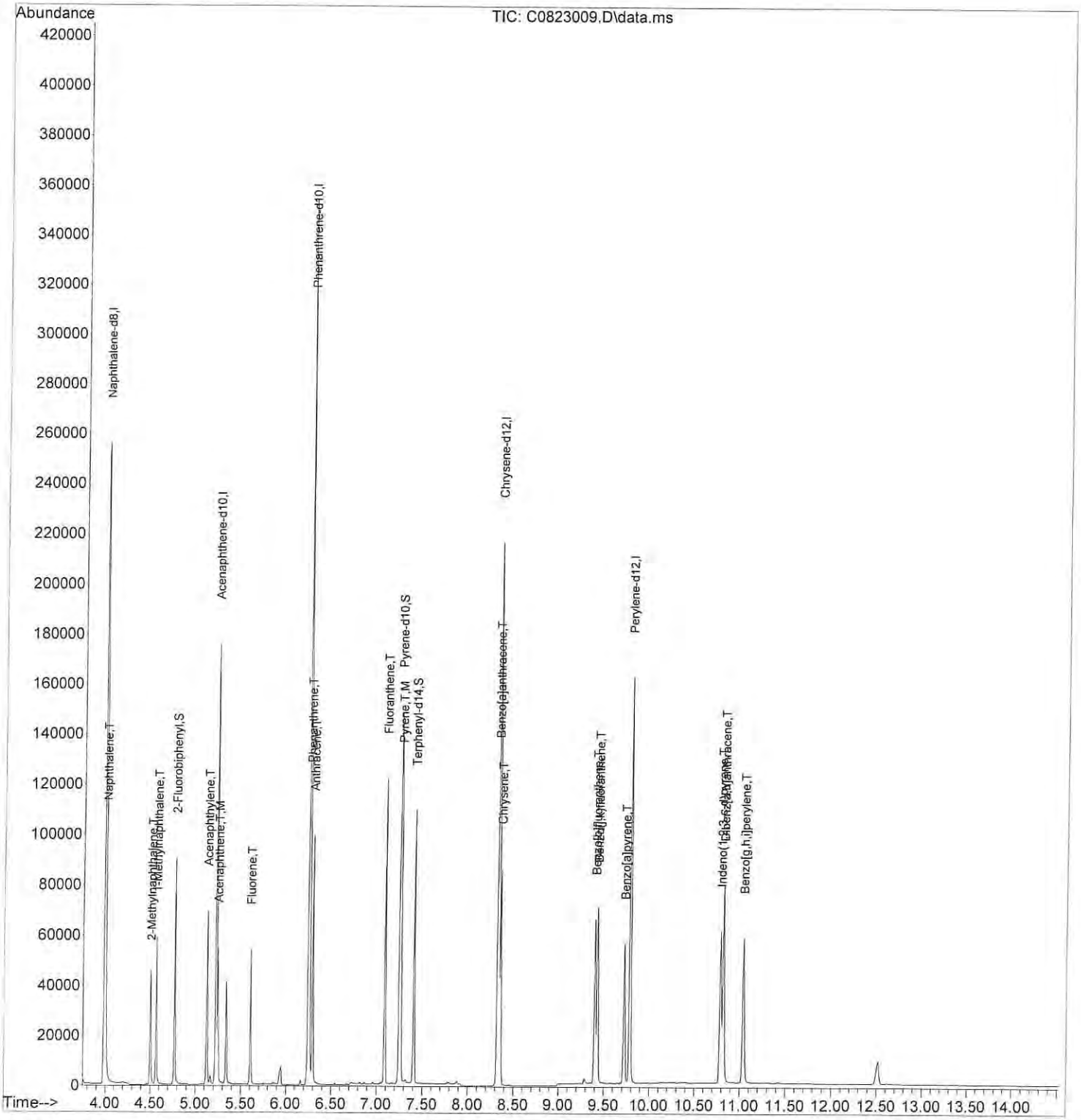
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JD 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823009.D
Acq On : 23 Aug 2024 11:24 am
Operator : JP
Sample : SB0823W1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 23 12:06:53 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823010.D
Acq On : 23 Aug 2024 11:45 am
Operator : JP
Sample : SB0823W1 DUP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 23 12:07:13 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	288414	2000.00	ppb	0.00
5) Acenaphthene-d10	5.227	164	151404	2000.00	ppb	0.00
9) Phenanthrene-d10	6.246	188	262831	2000.00	ppb	0.01
16) Chrysene-d12	8.337	240	191949	2000.00	ppb	0.02
20) Perylene-d12	9.783	264	190703	2000.00	ppb	0.02
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.773	172	60981	489.23	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 48.92%			
10) Pyrene-d10	7.244	212	94687	790.91	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 79.09%			
17) Terphenyl-d14	7.408	244	75005	798.74	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 79.87%			
Target Compounds						Qvalue
2) Naphthalene	4.001	128	37129	225.55	ppb	99
3) 2-Methylnaphthalene	4.500	142	19973	199.45	ppb	100
4) 1-Methylnaphthalene	4.570	142	22075	218.36	ppb	97
7) Acenaphthylene	5.127	152	43920	263.74	ppb	100
8) Acenaphthene	5.243	153	26268	242.32	ppb	100
11) Fluorene	5.605	166	34452	280.50	ppb	100
12) Phenanthrene	6.258	178	58136	342.28	ppb	96
13) Anthracene	6.293	178	59888	377.31	ppb	97
14) Fluoranthene	7.091	202	70610	427.82	ppb	93
15) Pyrene	7.264	202	69458	408.86	ppb	94
18) Benzo[a]anthracene	8.325	228	61318	489.40	ppb	94
19) Chrysene	8.354	228	60796	424.90	ppb	96
21) Benzo[b]fluoranthene	9.400	252	63871	420.46	ppb	89
22) Benzo(j,k)fluoranthene	9.429	252	63804	434.39	ppb	90
23) Benzo[a]pyrene	9.719	252	55713	441.46	ppb	88
24) Indeno(1,2,3-c,d)pyrene	10.789	276	57585m	428.10	ppb	
25) Dibenz[a,h]anthracene	10.820	278	58189	422.38	ppb	85
26) Benzo[g,h,i]perylene	11.036	276	58791	412.52	ppb	79

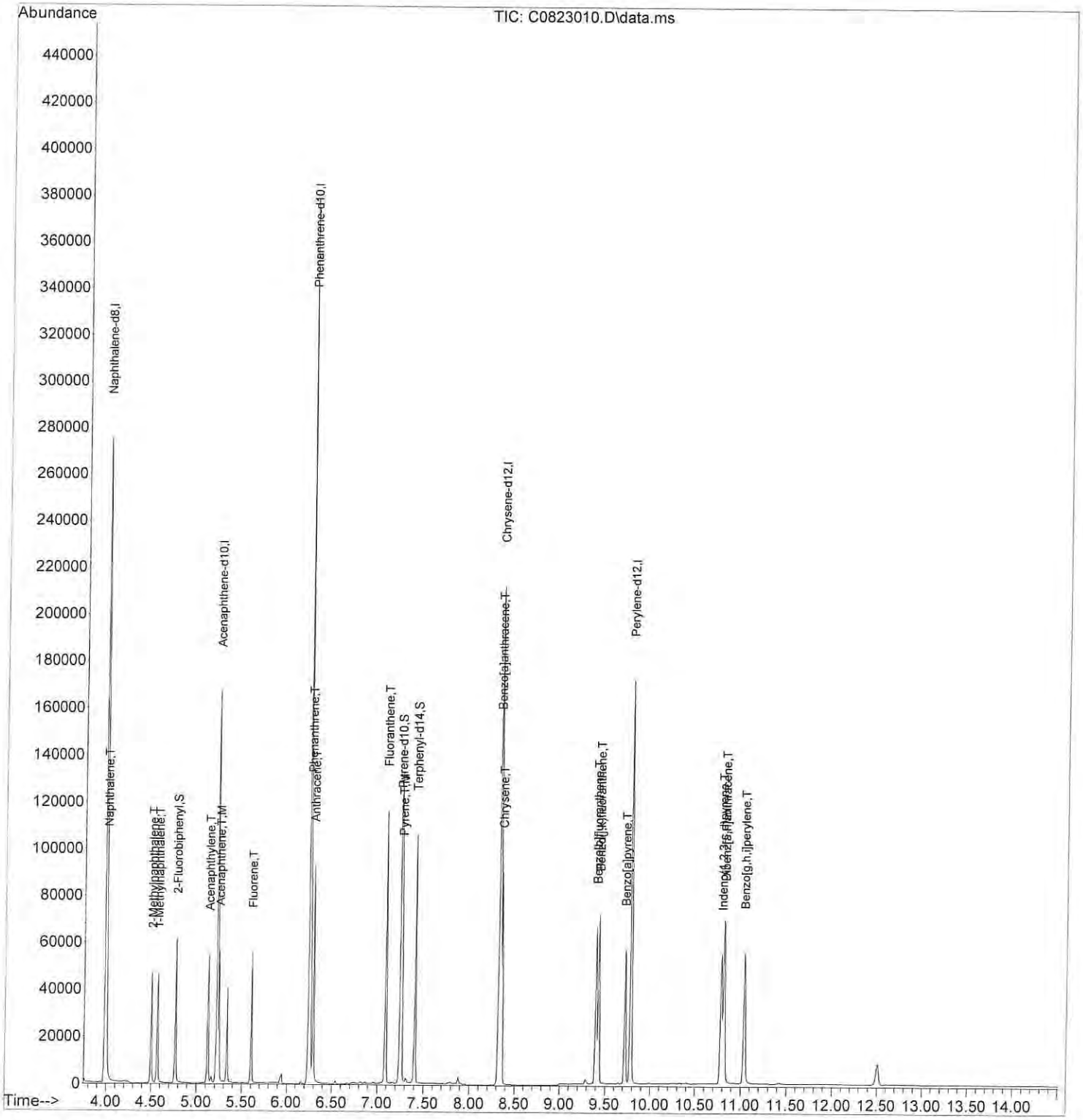
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/23/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823010.D
Acq On : 23 Aug 2024 11:45 am
Operator : JP
Sample : SB0823W1 DUP
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 23 12:07:13 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Response Factor Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240820.M
Title : PAH'S BY SIMS
Last Update : Tue Aug 20 14:46:01 2024
Response Via : Initial Calibration

Calibration Files
10 =C0820008.D 20 =C0820009.D 50 =C0820010.D 100 =C0820011.D 200 =C0820012.D 500 =C0820013.D 1000=C0820014.D
5000=C0820015.D

		Compound	10	20	50	100	200	500	1000	5000	Avg	%RSD
1)	I	Naphthalene-d8	----------ISTD----------									
2)	T	Naphthalene	1.241	1.239	1.212	1.161	1.103	1.124	1.109	0.944	1.142	8.53
3)	T	2-Methylnaphth...	0.742	0.752	0.737	0.712	0.664	0.673	0.671	0.604	0.694	7.29
4)	T	1-Methylnaphth...	0.764	0.754	0.743	0.706	0.663	0.679	0.680	0.619	0.701	7.16
5)	I	Acenaphthene-d10	----------ISTD----------									
6)	S	2-Fluorobiphenyl	2.093	1.808	1.716	1.662	1.582	1.533	1.479	1.299	1.647	14.44
7)	T	Acenaphthylene	2.428	2.436	2.380	2.294	2.144	2.101	2.036	1.778	2.200	10.42
8)	T,M	Acenaphthene	1.559	1.551	1.534	1.483	1.406	1.384	1.338	1.200	1.432	8.70
9)	I	Phenanthrene-d10	----------ISTD----------									
10)	S	Pyrene-d10	0.963	0.975	0.942	0.942	0.895	0.898	0.872	0.801	0.911	6.25
11)	T	Fluorene	1.042	1.014	1.000	0.949	0.925	0.897	0.879	0.772	0.935	9.35
12)	T	Phenanthrene	1.480	1.418	1.369	1.308	1.281	1.236	1.202	1.047	1.292	10.49
13)	T	Anthracene	1.273	1.242	1.241	1.211	1.197	1.167	1.243	1.088	1.208	4.85
14)	T	Fluoranthene	1.352	1.324	1.320	1.264	1.289	1.204	1.176	1.119	1.256	6.51
15)	T,M	Pyrene	1.394	1.370	1.342	1.321	1.246	1.257	1.232	1.180	1.293	5.79
16)	I	Chrysene-d12	----------ISTD----------									
17)	S	Terphenyl-d14	1.141	1.016	1.020	0.982	0.987	0.928	0.923	0.831	0.978	9.22
18)	T	Benzo[a]anthra...	2.235	1.940	1.620	1.519	1.464	1.428	1.385	1.242	1.604	20.36
19)	T	Chrysene	1.572	1.511	1.606	1.547	1.521	1.453	1.450	1.267	1.491	7.06
20)	I	Perylene-d12	----------ISTD----------									
21)	T	Benzo[b]fluora...	1.734	1.708	1.637	1.624	1.672	1.514	1.495	1.361	1.593	7.94
22)	T	Benzo(j,k)fluo...	1.640	1.584	1.609	1.553	1.472	1.544	1.510	1.410	1.540	4.87
23)	T	Benzo[a]pyrene	1.402	1.383	1.370	1.317	1.325	1.294	1.286	1.211	1.324	4.68
24)	T	Indeno(1,2,3-c...	1.534	1.521	1.467	1.401	1.391	1.375	1.351	1.244	1.411	6.76
25)	T	Dibenz[a,h]ant...	1.521	1.503	1.483	1.452	1.456	1.417	1.404	1.322	1.445	4.41
26)	T	Benzo[g,h,i]pe...	1.674	1.586	1.532	1.485	1.490	1.447	1.426	1.318	1.495	7.15

(#) = Out of Range

Compound List Report Corey

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CS240820.M
Title : PAH'S BY SIMS
Last Update : Tue Aug 20 14:46:01 2024
Response Via : Initial Calibration

Total Cpnds : 26

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8	136	3.986	1.000	A	0	A	R
2	T	Naphthalene	128	3.993	1.002	A	1	A	R
3	T	2-Methylnaphthalene	142	4.493	1.127	A	1	A	R
4	T	1-Methylnaphthalene	142	4.563	1.145	A	1	A	R
5	I	Acenaphthene-d10	164	5.219	1.000	A	0	A	R
6	S	2-Fluorobiphenyl	172	4.766	0.913	A	0	A	R
7	T	Acenaphthylene	152	5.118	0.981	A	0	A	R
8	T	Acenaphthene	153	5.234	1.003	A	0	A	R
9	I	Phenanthrene-d10	188	6.234	1.000	A	0	A	R
10	S	Pyrene-d10	212	7.236	1.161	A	0	A	R
11	T	Fluorene	166	5.596	0.898	A	0	A	R
12	T	Phenanthrene	178	6.252	1.003	A	1	A	R
13	T	Anthracene	178	6.287	1.008	A	1	A	R
14	T	Fluoranthene	202	7.072	1.134	A	1	A	R
15	T	Pyrene	202	7.245	1.162	A	1	A	R
16	I	Chrysene-d12	240	8.318	1.000	A	0	A	R
17	S	Terphenyl-d14	244	7.399	0.889	A	0	A	R
18	T	Benzo[a]anthracene	228	8.300	0.998	L	1	A	R
19	T	Chrysene	228	8.336	1.002	A	1	A	R
20	I	Perylene-d12	264	9.759	1.000	A	0	A	R
21	T	Benzo[b]fluoranthene	252	9.376	0.961	A	1	A	R
22	T	Benzo(j,k)fluoranthene	252	9.405	0.964	A	1	A	R
23	T	Benzo[a]pyrene	252	9.695	0.993	A	1	A	R
24	T	Indeno(1,2,3-c,d)pyrene	276	10.751	1.102	A	1	A	R
25	T	Dibenz[a,h]anthracene	278	10.790	1.106	A	1	A	R
26	T	Benzo[g,h,i]perylene	276	11.006	1.128	A	1	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CS240820.M Fri Aug 23 12:55:40 2024

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820008.D
Acq On : 20 Aug 2024 11:51 am
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-168-25
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 20 14:46:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

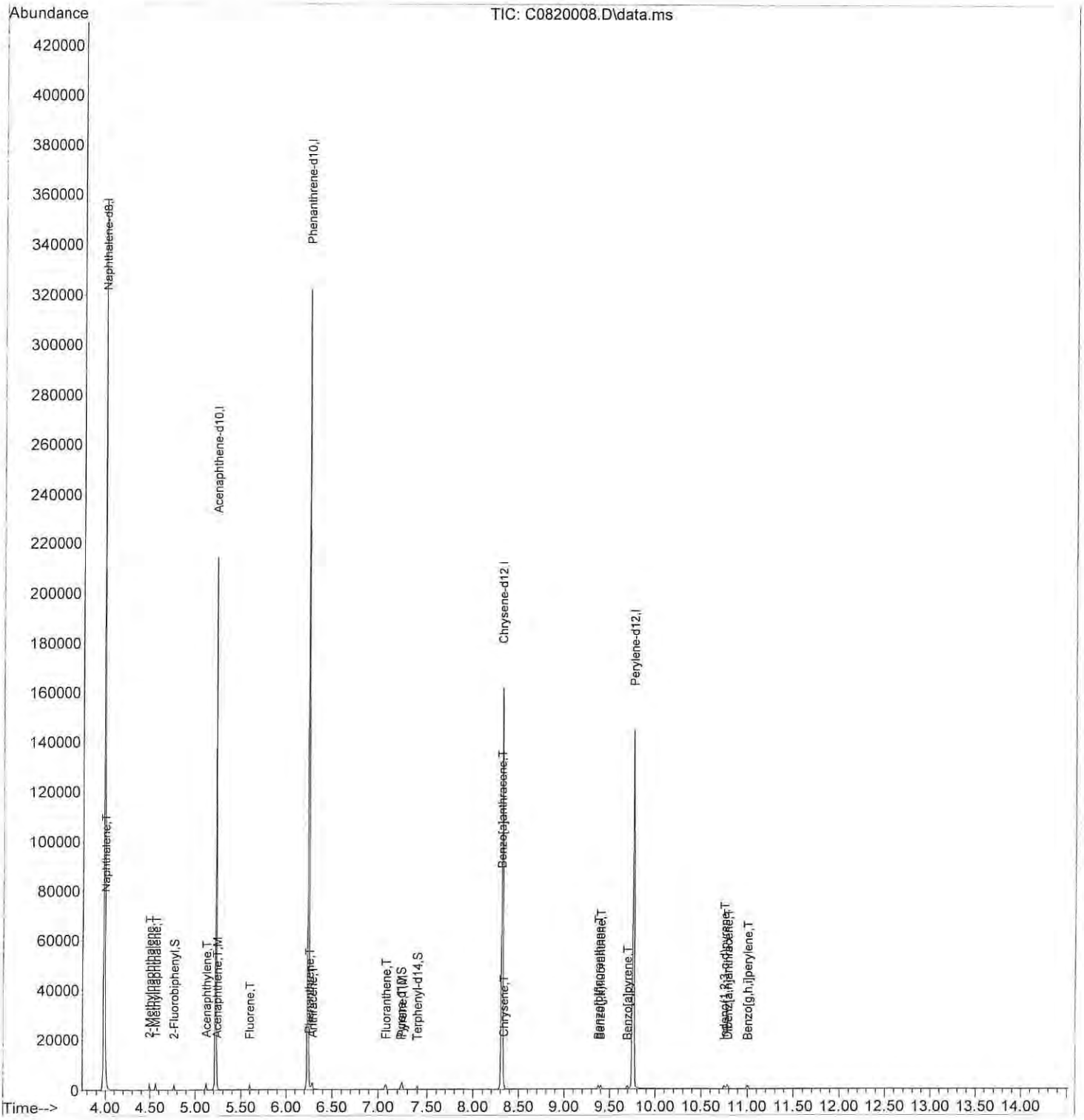
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	272423	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	135898	2000.00	ppb	0.00
9) Phenanthrene-d10	6.235	188	224899	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	159671	2000.00	ppb	0.00
20) Perylene-d12	9.760	264	156301	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.767	172	1422	12.71	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 1.27%#			
10) Pyrene-d10	7.235	212	1083	10.57	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 1.06%#			
17) Terphenyl-d14	7.398	244	911	11.66	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 1.17%#			
Target Compounds						Qvalue
2) Naphthalene	3.994	128	1690	10.87	ppb	98
3) 2-Methylnaphthalene	4.494	142	1011	10.69	ppb	95
4) 1-Methylnaphthalene	4.564	142	1041	10.90	ppb	97
7) Acenaphthylene	5.119	152	1650	11.04	ppb	100
8) Acenaphthene	5.234	153	1059	10.88	ppb	100
11) Fluorene	5.597	166	1172	11.15	ppb	100
12) Phenanthrene	6.252	178	1664	11.45	ppb	99
13) Anthracene	6.287	178	1431	10.54	ppb	98
14) Fluoranthene	7.081	202	1520	10.76	ppb	91
15) Pyrene	7.244	202	1567	10.78	ppb	97
18) Benzo[a]anthracene	8.307	228	1784	6.61	ppb	93
19) Chrysene	8.336	228	1255	10.54	ppb	95
21) Benzo[b]fluoranthene	9.376	252	1355	10.88	ppb	91
22) Benzo(j,k)fluoranthene	9.400	252	1282	10.65	ppb	90
23) Benzo[a]pyrene	9.696	252	1096	10.60	ppb	87
24) Indeno(1,2,3-c,d)pyrene	10.751	276	1199	10.88	ppb	82
25) Dibenz[a,h]anthracene	10.790	278	1189	10.53	ppb	91
26) Benzo[g,h,i]perylene	11.006	276	1308	11.20	ppb	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/20/24

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820008.D
Acq On : 20 Aug 2024 11:51 am
Operator : JP
Sample : 10 PPB ICAL
Misc : SV6-168-25
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 20 14:46:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820009.D
Acq On : 20 Aug 2024 12:13 pm
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-168-24
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 14:48:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

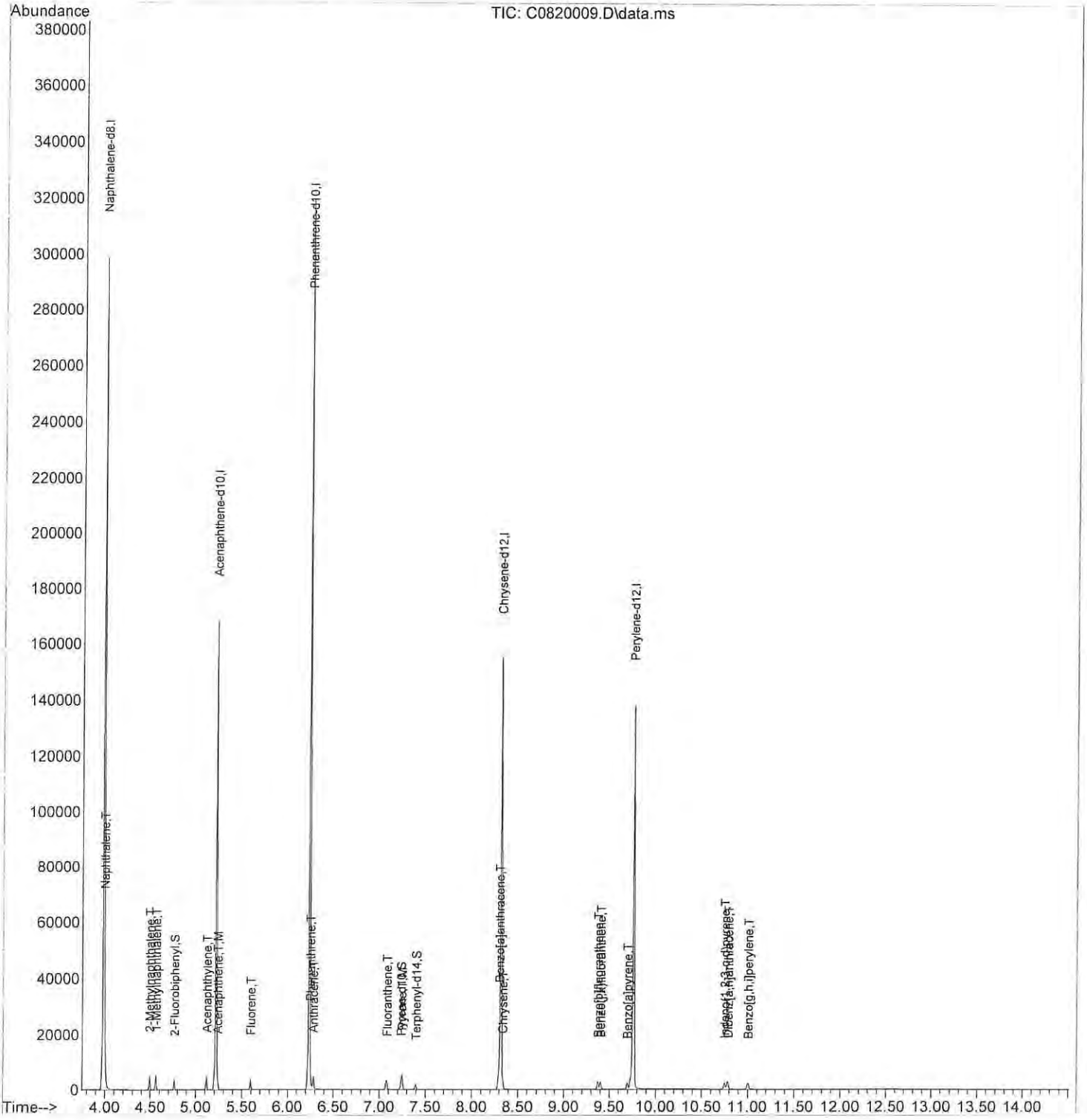
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	255401	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	127972	2000.00	ppb	0.00
9) Phenanthrene-d10	6.236	188	216084	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	150861	2000.00	ppb	0.00
20) Perylene-d12	9.758	264	149196	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	2314	21.96	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery =	2.20%#		
10) Pyrene-d10	7.236	212	2106	21.40	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery =	2.14%#		
17) Terphenyl-d14	7.399	244	1532	20.76	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery =	2.08%#		
Target Compounds						Qvalue
2) Naphthalene	3.994	128	3164	21.70	ppb	99
3) 2-Methylnaphthalene	4.493	142	1921	21.66	ppb	98
4) 1-Methylnaphthalene	4.562	142	1925	21.50	ppb	97
7) Acenaphthylene	5.119	152	3118	22.15	ppb	100
8) Acenaphthene	5.235	153	1985	21.66	ppb	100
11) Fluorene	5.597	166	2191	21.70	ppb	100
12) Phenanthrene	6.247	178	3063	21.93	ppb	98
13) Anthracene	6.282	178	2684	20.57	ppb	97
14) Fluoranthene	7.082	202	2860	21.08	ppb	92
15) Pyrene	7.245	202	2960	21.19	ppb	96
18) Benzo[a]anthracene	8.301	228	2926	19.49	ppb	97
19) Chrysene	8.336	228	2279	20.27	ppb	95
21) Benzo[b]fluoranthene	9.375	252	2549	21.45	ppb	91
22) Benzo(j,k)fluoranthene	9.404	252	2364	20.57	ppb	88
23) Benzo[a]pyrene	9.694	252	2063	20.89	ppb	86
24) Indeno(1,2,3-c,d)pyrene	10.750	276	2263m	21.50	ppb	
25) Dibenz[a,h]anthracene	10.789	278	2242	20.80	ppb	87
26) Benzo[g,h,i]perylene	11.005	276	2366	21.22	ppb	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP
9/20/24

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820009.D
Acq On : 20 Aug 2024 12:13 pm
Operator : JP
Sample : 20 PPB ICAL
Misc : SV6-168-24
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 20 14:48:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820010.D
Acq On : 20 Aug 2024 12:34 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-168-23
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 14:46:33 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	262973	2000.00	ppb	0.00
5) Acenaphthene-d10	5.220	164	130108	2000.00	ppb	0.00
9) Phenanthrene-d10	6.235	188	222578	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	154657	2000.00	ppb	0.00
20) Perylene-d12	9.758	264	152859	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.765	172	5582	52.11	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 5.21%#			
10) Pyrene-d10	7.235	212	5243	51.71	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 5.17%#			
17) Terphenyl-d14	7.398	244	3943	52.11	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 5.21%#			
Target Compounds						Qvalue
2) Naphthalene	3.994	128	7966	53.07	ppb	98
3) 2-Methylnaphthalene	4.492	142	4844	53.05	ppb	98
4) 1-Methylnaphthalene	4.562	142	4884	52.98	ppb	99
7) Acenaphthylene	5.120	152	7743	54.11	ppb	100
8) Acenaphthene	5.235	153	4990	53.57	ppb	100
11) Fluorene	5.597	166	5562	53.47	ppb	100
12) Phenanthrene	6.252	178	7615	52.94	ppb	97
13) Anthracene	6.281	178	6908	51.39	ppb	97
14) Fluoranthene	7.081	202	7345	52.55	ppb	90
15) Pyrene	7.245	202	7468	51.91	ppb	96
18) Benzo[a]anthracene	8.302	228	6265	52.55	ppb	98
19) Chrysene	8.336	228	6208	53.85	ppb	97
21) Benzo[b]fluoranthene	9.375	252	6254	51.36	ppb	89
22) Benzo(j,k)fluoranthene	9.404	252	6149	52.23	ppb	89
23) Benzo[a]pyrene	9.694	252	5235	51.75	ppb	89
24) Indeno(1,2,3-c,d)pyrene	10.750	276	5606	51.99	ppb	83
25) Dibenz[a,h]anthracene	10.789	278	5668	51.33	ppb	84
26) Benzo[g,h,i]perylene	10.997	276	5853	51.24	ppb	78

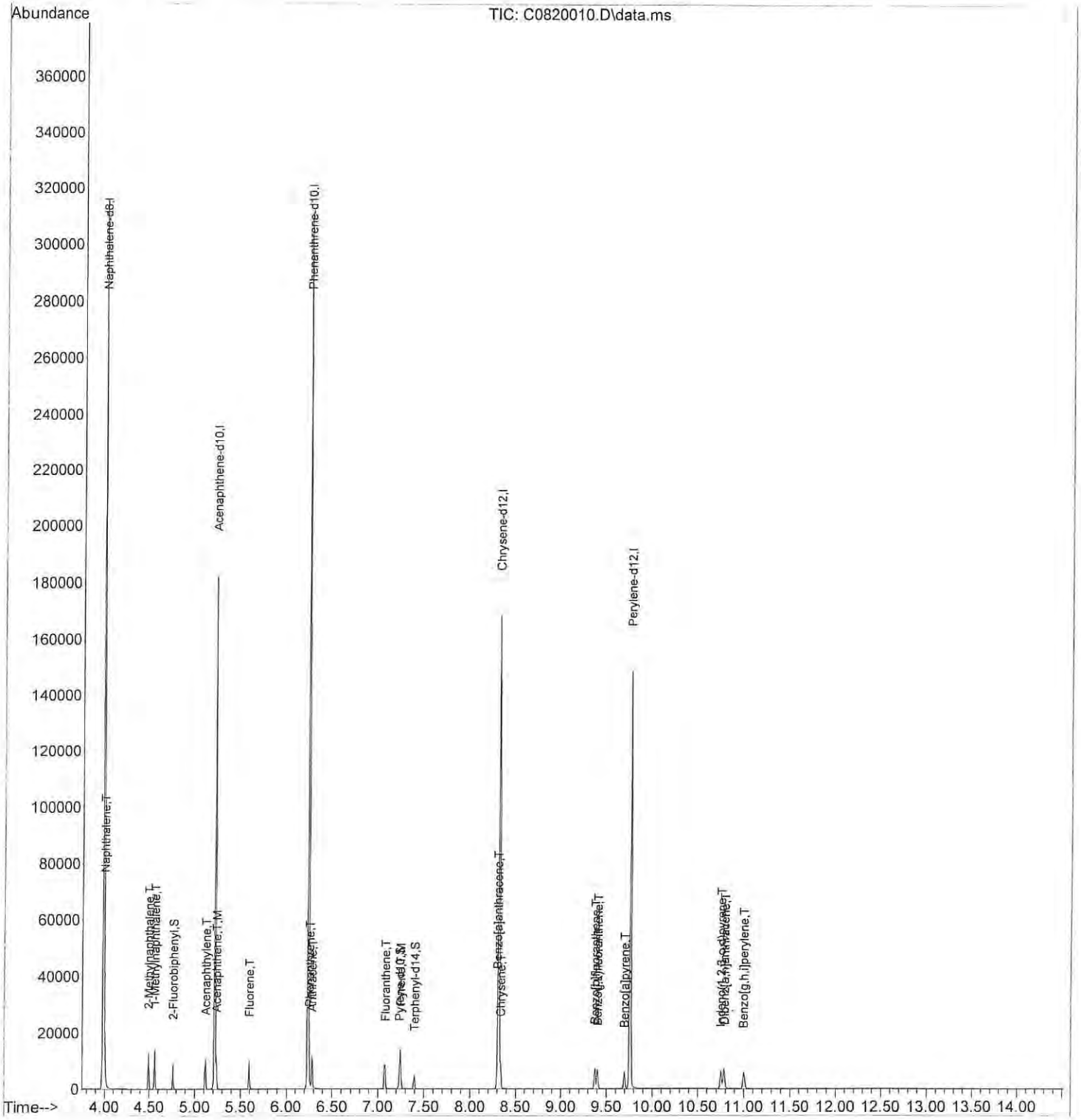
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 9/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820010.D
Acq On : 20 Aug 2024 12:34 pm
Operator : JP
Sample : 50 PPB ICAL
Misc : SV6-168-23
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 20 14:46:33 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820011.D
Acq On : 20 Aug 2024 12:56 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-168-22
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 14:46:40 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.985	136	268800	2000.00	ppb	0.00
5) Acenaphthene-d10	5.220	164	130360	2000.00	ppb	0.00
9) Phenanthrene-d10	6.236	188	224043	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	156385	2000.00	ppb	0.00
20) Perylene-d12	9.759	264	154650	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	10833	100.94	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 10.09%#			
10) Pyrene-d10	7.236	212	10547	103.35	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 10.33%#			
17) Terphenyl-d14	7.399	244	7678	100.36	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 10.04%#			
Target Compounds						Qvalue
2) Naphthalene	4.000	128	15605	101.71	ppb	99
3) 2-Methylnaphthalene	4.493	142	9575	102.59	ppb	100
4) 1-Methylnaphthalene	4.562	142	9494	100.76	ppb	99
7) Acenaphthylene	5.120	152	14954	104.29	ppb	100
8) Acenaphthene	5.235	153	9666	103.56	ppb	100
11) Fluorene	5.598	166	10629	101.52	ppb	100
12) Phenanthrene	6.247	178	14655	101.22	ppb	97
13) Anthracene	6.282	178	13571	100.30	ppb	97
14) Fluoranthene	7.082	202	14154	100.61	ppb	89
15) Pyrene	7.245	202	14799	102.20	ppb	97
18) Benzo[a]anthracene	8.302	228	11880	108.08	ppb	96
19) Chrysene	8.337	228	12099	103.79	ppb	97
21) Benzo[b]fluoranthene	9.375	252	12560	101.96	ppb	89
22) Benzo(j,k)fluoranthene	9.404	252	12010	100.83	ppb	90
23) Benzo[a]pyrene	9.695	252	10187	99.54	ppb	88
24) Indeno(1,2,3-c,d)pyrene	10.751	276	10837	99.35	ppb	82
25) Dibenz[a,h]anthracene	10.789	278	11228	100.50	ppb	84
26) Benzo[g,h,i]perylene	10.997	276	11485	99.37	ppb	78

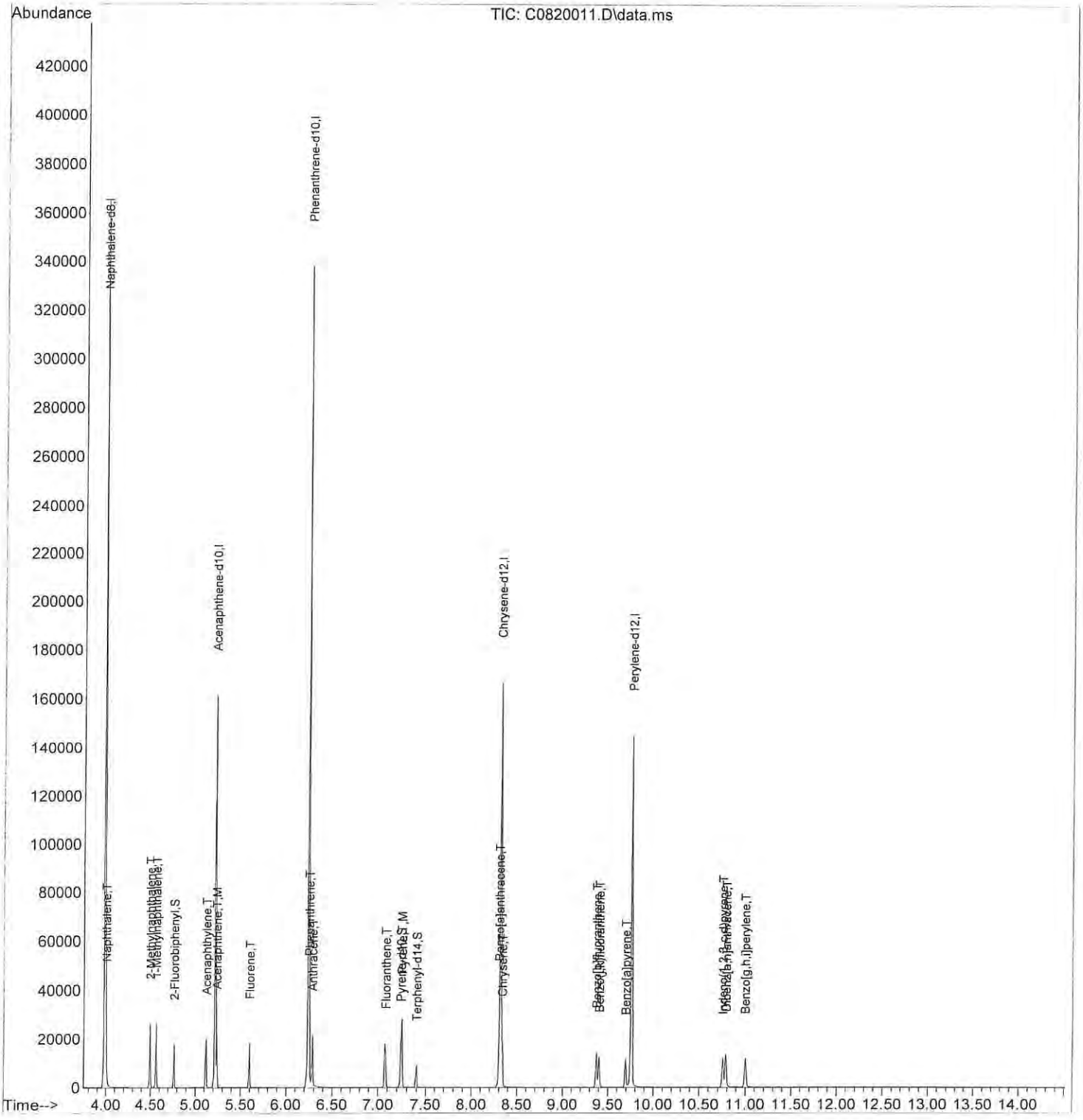
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820011.D
Acq On : 20 Aug 2024 12:56 pm
Operator : JP
Sample : 100 PPB ICAL
Misc : SV6-168-22
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 20 14:46:40 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820012.D
Acq On : 20 Aug 2024 1:22 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-168-21
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 14:48:47 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	272185	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	130802	2000.00	ppb	0.00
9) Phenanthrene-d10	6.235	188	218074	2000.00	ppb	0.00
16) Chrysene-d12	8.319	240	153276	2000.00	ppb	0.00
20) Perylene-d12	9.759	264	151261	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	20690	192.13	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 19.21%#			
10) Pyrene-d10	7.236	212	19528	196.59	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 19.66%#			
17) Terphenyl-d14	7.399	244	15129	201.76	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 20.18%#			
Target Compounds						Qvalue
2) Naphthalene	4.001	128	30031	193.31	ppb	99
3) 2-Methylnaphthalene	4.494	142	18072	191.22	ppb	98
4) 1-Methylnaphthalene	4.563	142	18050	189.19	ppb	98
7) Acenaphthylene	5.119	152	28045	194.93	ppb	100
8) Acenaphthene	5.234	153	18394	196.41	ppb	100
11) Fluorene	5.597	166	20167	197.89	ppb	100
12) Phenanthrene	6.252	178	27942	198.27	ppb	97
13) Anthracene	6.287	178	26094	198.14	ppb	96
14) Fluoranthene	7.082	202	28114	205.30	ppb	92
15) Pyrene	7.255	202	27180	192.83	ppb	95
18) Benzo[a]anthracene	8.307	228	22444	218.43	ppb	96
19) Chrysene	8.342	228	23316	204.07	ppb	96
21) Benzo[b]fluoranthene	9.376	252	25287	209.87	ppb	92
22) Benzo(j,k)fluoranthene	9.405	252	22270	191.15	ppb	86
23) Benzo[a]pyrene	9.695	252	20037	200.17	ppb	89
24) Indeno(1,2,3-c,d)pyrene	10.751	276	21020m	197.02	ppb	
25) Dibenz[a,h]anthracene	10.790	278	22027	201.58	ppb	84
26) Benzo[g,h,i]perylene	11.006	276	22535	199.35	ppb	78

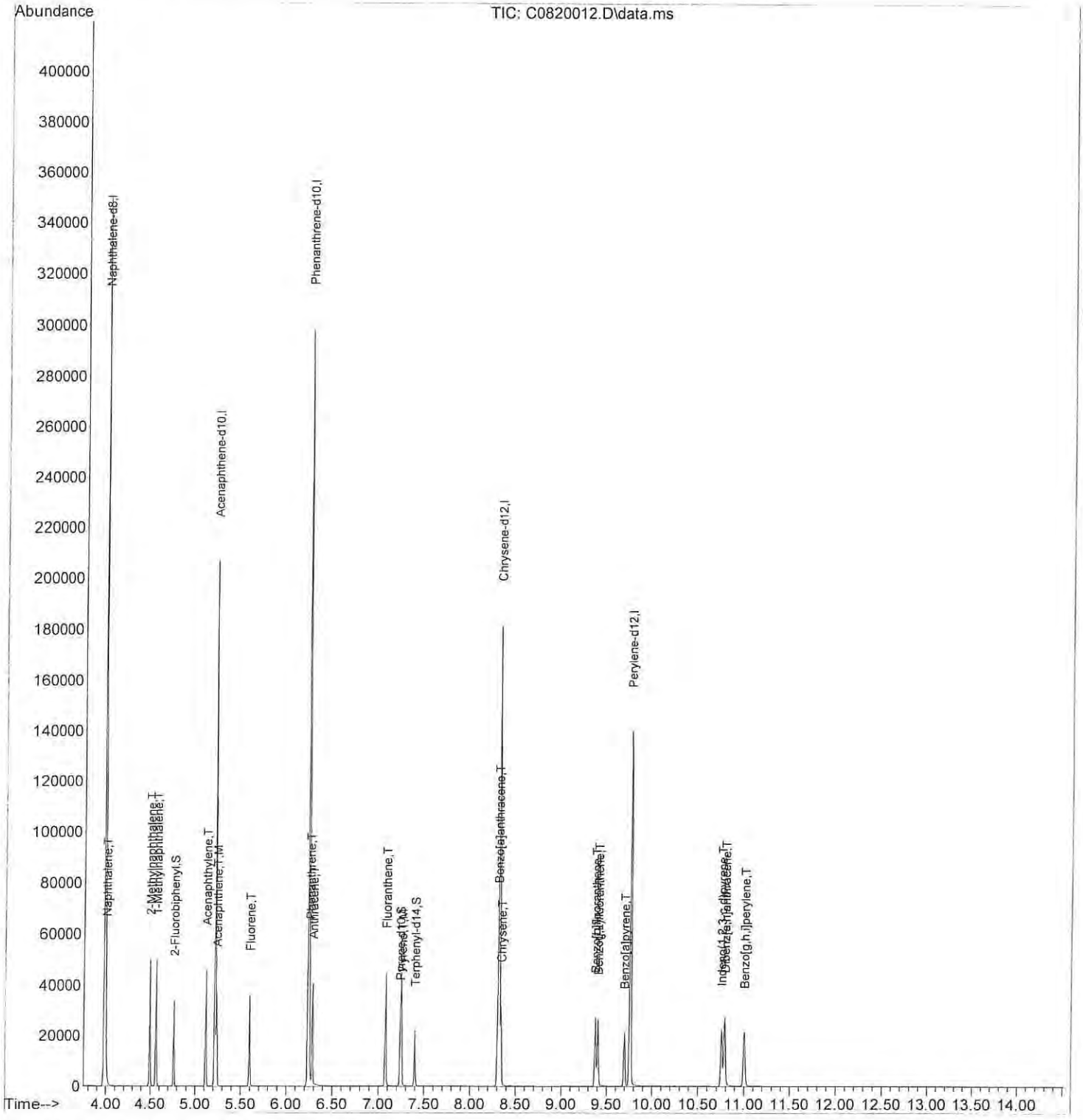
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/20/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820012.D
Acq On : 20 Aug 2024 1:22 pm
Operator : JP
Sample : 200 PPB ICAL
Misc : SV6-168-21
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 20 14:48:47 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820013.D
Acq On : 20 Aug 2024 1:43 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-168-20
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 14:46:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	250949	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	124990	2000.00	ppb	0.00
9) Phenanthrene-d10	6.234	188	210314	2000.00	ppb	0.00
16) Chrysene-d12	8.318	240	148965	2000.00	ppb	0.00
20) Perylene-d12	9.759	264	147386	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	47889	465.39	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 46.54%			
10) Pyrene-d10	7.236	212	47229	493.01	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 49.30%			
17) Terphenyl-d14	7.399	244	34549	474.08	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 47.41%			
Target Compounds						Qvalue
2) Naphthalene	3.993	128	70503	492.22	ppb	98
3) 2-Methylnaphthalene	4.493	142	42232	484.68	ppb	98
4) 1-Methylnaphthalene	4.563	142	42572	483.97	ppb	98
7) Acenaphthylene	5.118	152	65645	477.50	ppb	100
8) Acenaphthene	5.234	153	43247	483.26	ppb	100
11) Fluorene	5.596	166	47148	479.72	ppb	100
12) Phenanthrene	6.252	178	64989	478.17	ppb	96
13) Anthracene	6.287	178	61377	483.26	ppb	96
14) Fluoranthene	7.072	202	63306	479.35	ppb	89
15) Pyrene	7.245	202	66101	486.26	ppb	95
18) Benzo[a]anthracene	8.301	228	53183	548.24	ppb	96
19) Chrysene	8.336	228	54100	487.20	ppb	94
21) Benzo[b]fluoranthene	9.376	252	55804	475.32	ppb	88
22) Benzo(j,k)fluoranthene	9.405	252	56893	501.17	ppb	89
23) Benzo[a]pyrene	9.695	252	47683	488.87	ppb	88
24) Indeno(1,2,3-c,d)pyrene	10.751	276	50675	487.45	ppb	80
25) Dibenz[a,h]anthracene	10.790	278	52199	490.26	ppb	82
26) Benzo[g,h,i]perylene	11.006	276	53300	483.90	ppb	77

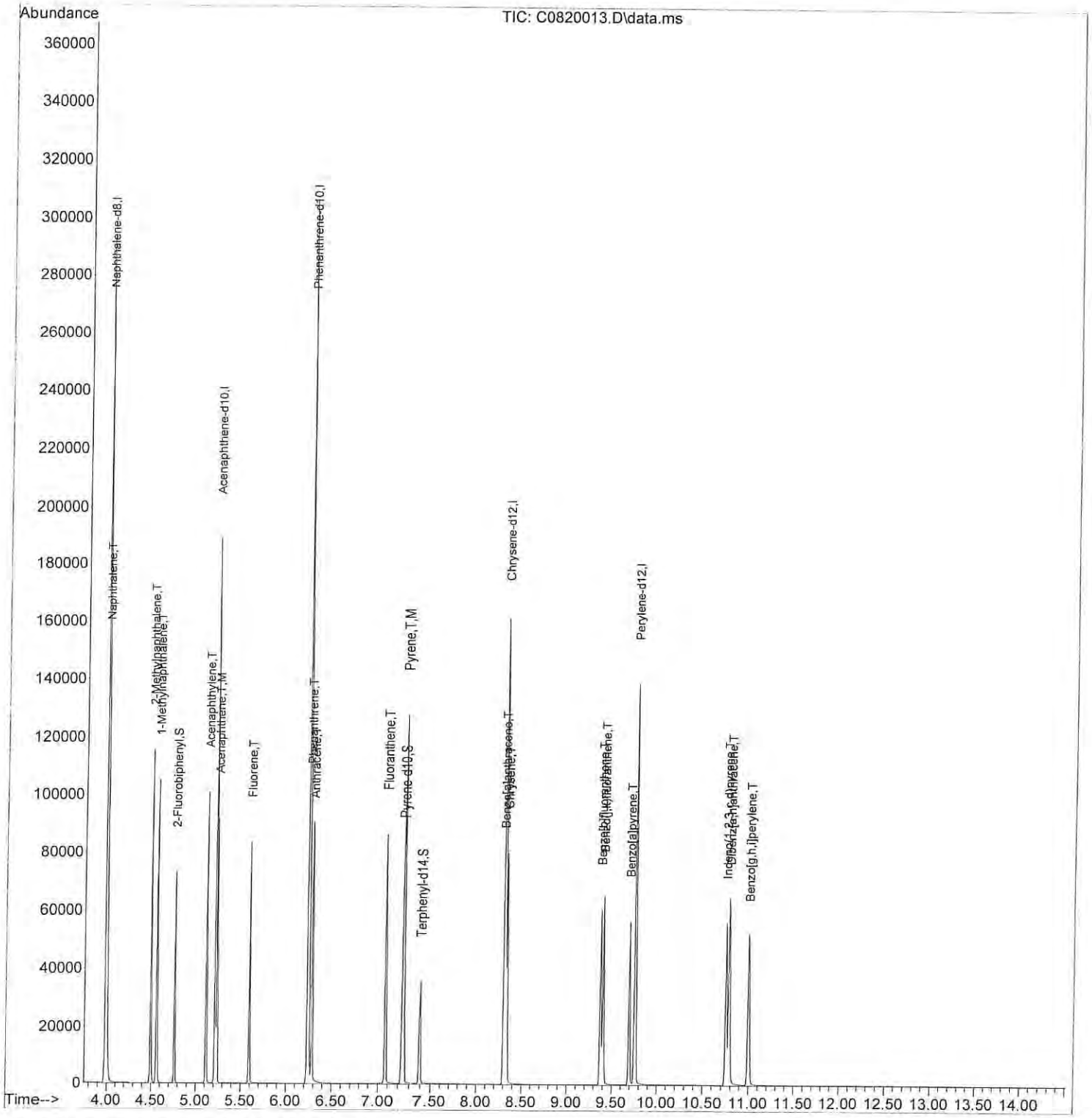
JP
8/20/24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820013.D
Acq On : 20 Aug 2024 1:43 pm
Operator : JP
Sample : 500 PPB ICAL
Misc : SV6-168-20
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 20 14:46:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820014.D
Acq On : 20 Aug 2024 2:05 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-168-19
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 14:47:04 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

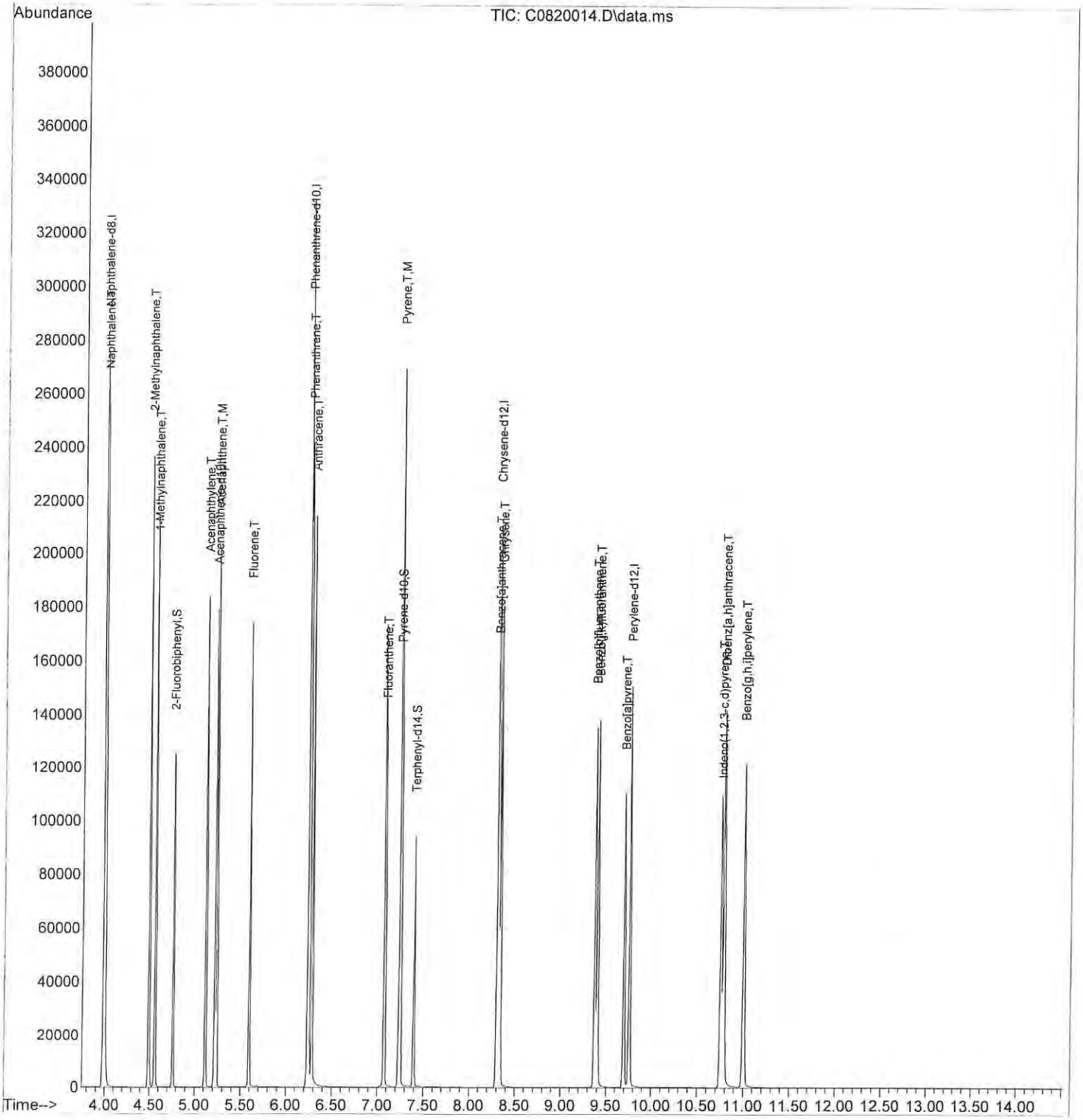
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.987	136	261767	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	133166	2000.00	ppb	0.00
9) Phenanthrene-d10	6.235	188	224315	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	160187	2000.00	ppb	0.00
20) Perylene-d12	9.759	264	158552	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.761	172	98501	898.48	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 89.85%#			
10) Pyrene-d10	7.235	212	97766	956.84	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 95.68%			
17) Terphenyl-d14	7.398	244	73935	943.46	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 94.35%#			
Target Compounds						Qvalue
2) Naphthalene	3.995	128	145091	971.10	ppb	97
3) 2-Methylnaphthalene	4.494	142	87847	966.52	ppb	97
4) 1-Methylnaphthalene	4.564	142	89035	970.35	ppb	98
7) Acenaphthylene	5.119	152	135595	925.75	ppb	100
8) Acenaphthene	5.235	153	89108	934.60	ppb	100
11) Fluorene	5.597	166	98589	940.51	ppb	100
12) Phenanthrene	6.247	178	134769	929.70	ppb	94
13) Anthracene	6.281	178	140487	1037.09	ppb	98
14) Fluoranthene	7.081	202	131884	936.28	ppb	88
15) Pyrene	7.244	202	138147	952.83	ppb	93
18) Benzo[a]anthracene	8.301	228	110913	1073.48	ppb	94
19) Chrysene	8.336	228	116167	972.86	ppb	95
21) Benzo[b]fluoranthene	9.376	252	118496	938.22	ppb	87
22) Benzo(j,k)fluoranthene	9.405	252	119681	980.03	ppb	88
23) Benzo[a]pyrene	9.696	252	101987	971.99	ppb	87
24) Indeno(1,2,3-c,d)pyrene	10.759	276	107078	957.46	ppb	79
25) Dibenz[a,h]anthracene	10.790	278	111342	972.09	ppb	81
26) Benzo[g,h,i]perylene	11.006	276	113058	954.15	ppb	76

JD
9/20/24

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820014.D
Acq On : 20 Aug 2024 2:05 pm
Operator : JP
Sample : 1000 PPB ICAL
Misc : SV6-168-19
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 20 14:47:04 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820015.D
Acq On : 20 Aug 2024 2:26 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-168-18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 20 14:49:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.987	136	257964	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	134391	2000.00	ppb	0.00
9) Phenanthrene-d10	6.235	188	222643	2000.00	ppb	0.00
16) Chrysene-d12	8.318	240	166597	2000.00	ppb	0.00
20) Perylene-d12	9.759	264	160873	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	436588	3946.04	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 394.60%#			
10) Pyrene-d10	7.235	212	445912	4396.95	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 439.69%#			
17) Terphenyl-d14	7.398	244	346187	4247.63	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 424.76%#			
Target Compounds						Qvalue
2) Naphthalene	3.994	128	609027	4136.33	ppb	93
3) 2-Methylnaphthalene	4.493	142	389237	4345.65	ppb	95
4) 1-Methylnaphthalene	4.563	142	399282	4415.74	ppb	95
7) Acenaphthylene	5.119	152	597244	4040.41	ppb	100
8) Acenaphthene	5.242	153	403279	4191.19	ppb	100
11) Fluorene	5.596	166	429631	4129.33	ppb	100
12) Phenanthrene	6.253	178	582629	4049.43	ppb	88
13) Anthracene	6.287	178	610019	4537.06	ppb	91
14) Fluoranthene	7.081	202	623047	4456.41	ppb	89
15) Pyrene	7.254	202	656705	4563.43	ppb	90
18) Benzo[a]anthracene	8.307	228	517417	4853.12	ppb	90
19) Chrysene	8.347	228	527667	4249.02	ppb	90
21) Benzo[b]fluoranthene	9.382	252	547383	4271.52	ppb	84
22) Benzo(j,k)fluoranthene	9.417	252	567202	4577.63	ppb	84
23) Benzo[a]pyrene	9.707	252	486926	4573.70	ppb	84
24) Indeno(1,2,3-c,d)pyrene	10.767	276	500463m	4410.45	ppb	
25) Dibenz[a,h]anthracene	10.797	278	531575	4574.04	ppb	79
26) Benzo[g,h,i]perylene	11.021	276	530229	4410.30	ppb	74

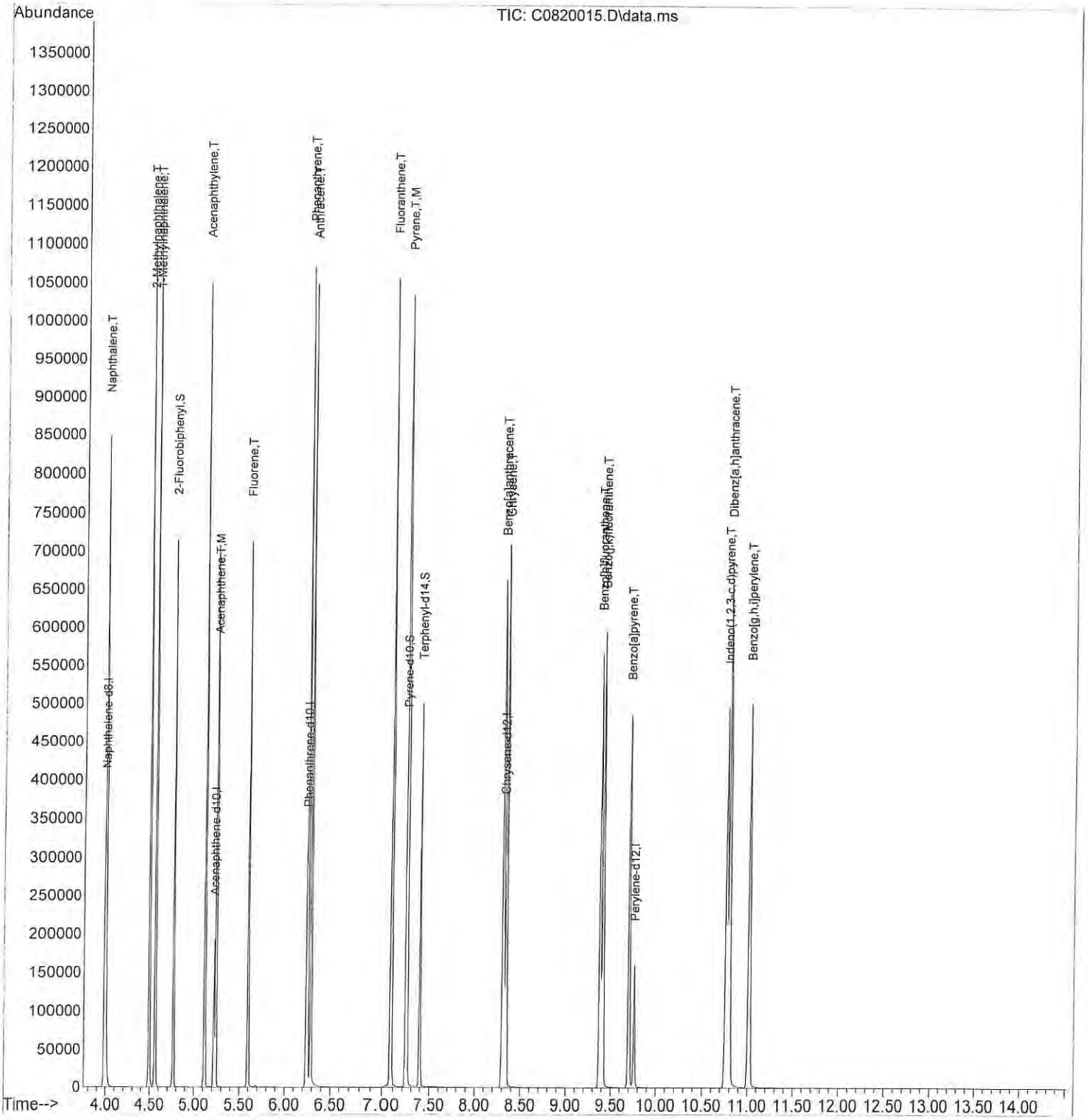
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/20/24

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820015.D
Acq On : 20 Aug 2024 2:26 pm
Operator : JP
Sample : 5000 PPB ICAL
Misc : SV6-168-18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 20 14:49:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820016.D
Acq On : 20 Aug 2024 2:48 pm
Operator : JP
Sample : ICV
Misc : SV6-169-07
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 15:07:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	108	0.00
2	T	Naphthalene	500.000	467.723	6.5	103	0.00
3	T	2-Methylnaphthalene	500.000	509.577	-1.9	114	0.00
4	T	1-Methylnaphthalene	500.000	468.198	6.4	104	0.00
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	108	0.00
6	S	2-Fluorobiphenyl	500.000	491.457	1.7	114	0.00
7	T	Acenaphthylene	500.000	460.999	7.8	104	0.00
8	T,M	Acenaphthene	500.000	495.953	0.8	111	0.00
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	109	0.00
10	S	Pyrene-d10	500.000	478.474	4.3	106	0.00
11	T	Fluorene	500.000	469.743	6.1	107	0.00
12	T	Phenanthrene	500.000	478.369	4.3	109	0.00
13	T	Anthracene	500.000	463.147	7.4	104	0.00
14	T	Fluoranthene	500.000	462.221	7.6	105	0.00
15	T,M	Pyrene	500.000	478.523	4.3	107	0.00
16	I	Chrysene-d12	2000.000	2000.000	0.0	107	0.00
17	S	Terphenyl-d14	500.000	515.963	-3.2	117	0.00
18	T	Benzo[a]anthracene	500.000	572.949	-14.6	112	0.00
19	T	Chrysene	500.000	503.004	-0.6	111	0.00
20	I	Perylene-d12	2000.000	2000.000	0.0	109	0.00
21	T	Benzo[b]fluoranthene	500.000	464.205	7.2	106	0.00
22	T	Benzo(j,k)fluoranthene	500.000	480.938	3.8	104	0.00
23	T	Benzo[a]pyrene	500.000	504.247	-0.8	112	0.00
24	T	Indeno(1,2,3-c,d)pyrene	500.000	496.525	0.7	111	0.00
25	T	Dibenz[a,h]anthracene	500.000	469.027	6.2	104	0.00
26	T	Benzo[g,h,i]perylene	500.000	469.927	6.0	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

CS240820.M Tue Aug 20 15:08:20 2024

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820016.D
Acq On : 20 Aug 2024 2:48 pm
Operator : JP
Sample : ICV
Misc : SV6-169-07
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 15:07:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	271000	2000.00	ppb	0.00
5) Acenaphthene-d10	5.220	164	134780	2000.00	ppb	0.00
9) Phenanthrene-d10	6.236	188	229131	2000.00	ppb	0.00
16) Chrysene-d12	8.313	240	159586	2000.00	ppb	0.00
20) Perylene-d12	9.758	264	160474	2000.00	ppb	0.00
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.766	172	54532	491.46	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 49.15%			
10) Pyrene-d10	7.235	212	49938	478.47	ppb	0.00
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.85%			
17) Terphenyl-d14	7.398	244	40282	515.96	ppb	0.00
Spiked Amount 1000.000	Range 39 - 92		Recovery = 51.60%			
Target Compounds						Qvalue
2) Naphthalene	3.994	128	72347	467.72	ppb	98
3) 2-Methylnaphthalene	4.493	142	47949	509.58	ppb	98
4) 1-Methylnaphthalene	4.562	142	44475	468.20	ppb	97
7) Acenaphthylene	5.119	152	68341	461.00	ppb	100
8) Acenaphthene	5.235	153	47859	495.95	ppb	100
11) Fluorene	5.597	166	50298	469.74	ppb	100
12) Phenanthrene	6.247	178	70833	478.37	ppb	96
13) Anthracene	6.282	178	64086	463.15	ppb	96
14) Fluoranthene	7.072	202	66506	462.22	ppb	87
15) Pyrene	7.245	202	70869	478.52	ppb	95
18) Benzo[a]anthracene	8.302	228	59493	572.95	ppb	94
19) Chrysene	8.337	228	59837	503.00	ppb	96
21) Benzo[b]fluoranthene	9.375	252	59339	464.20	ppb	87
22) Benzo(j,k)fluoranthene	9.404	252	59444	480.94	ppb	89
23) Benzo[a]pyrene	9.694	252	53550	504.25	ppb	88
24) Indeno(1,2,3-c,d)pyrene	10.750	276	56202	496.53	ppb	81
25) Dibenz[a,h]anthracene	10.789	278	54373	469.03	ppb	82
26) Benzo[g,h,i]perylene	11.005	276	56357	469.93	ppb	77

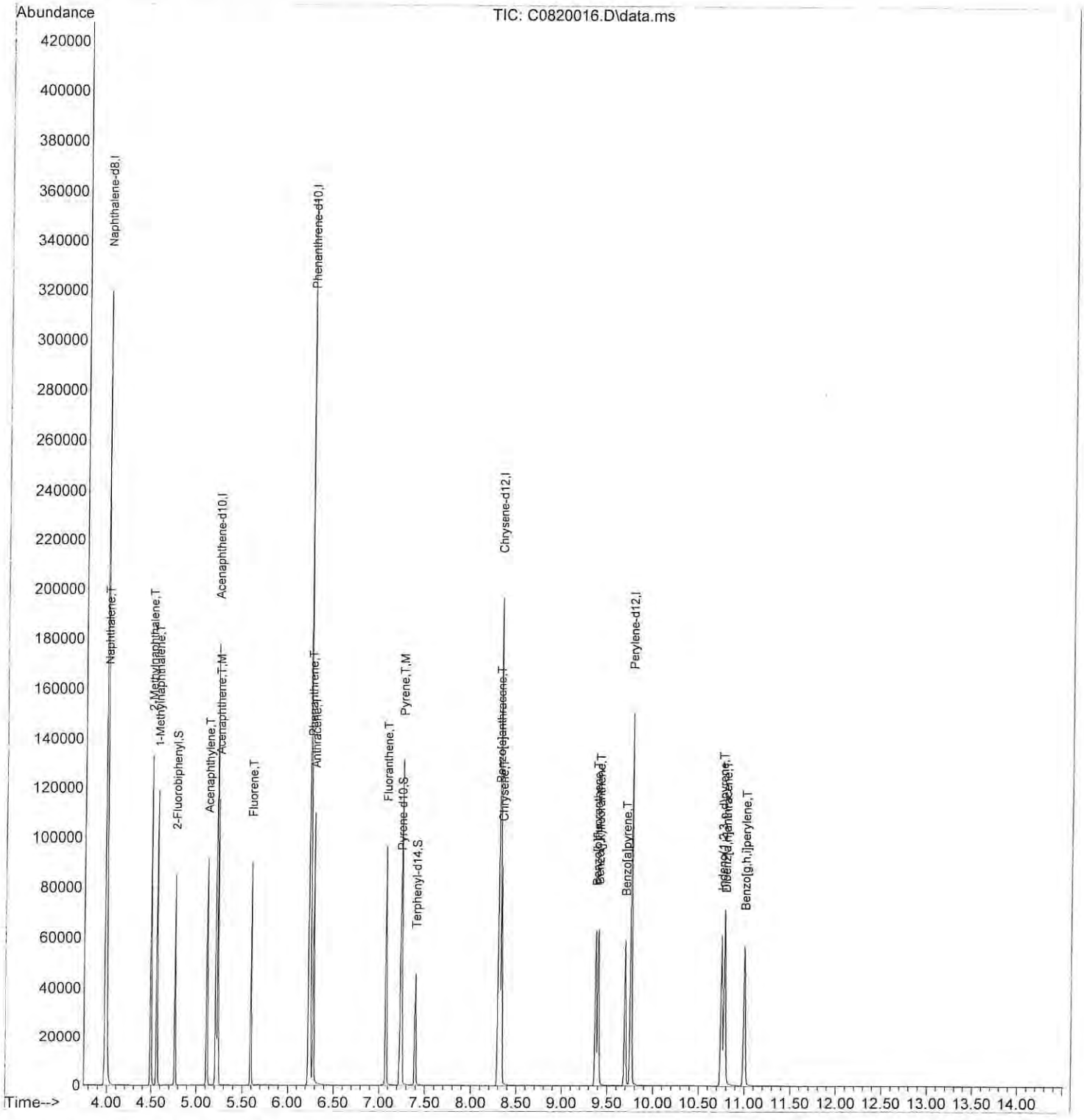
(#) = qualifier out of range (m) = manual integration (+) = signals summed

JP 8/20/24

Quantitation Report (Not Reviewed)

Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820016.D
Acq On : 20 Aug 2024 2:48 pm
Operator : JP
Sample : ICV
Misc : SV6-169-07
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 15:07:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823001.D
Acq On : 23 Aug 2024 8:19 am
Operator : JP
Sample : PAH CCV0823-1
Misc : SV6-169-16
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 08:34:10 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8	2000.000	2000.000	0.0	123	0.00
2	T	Naphthalene	500.000	480.065	4.0	120	0.00
3	T	2-Methylnaphthalene	500.000	484.514	3.1	123	0.00
4	T	1-Methylnaphthalene	500.000	481.325	3.7	123	0.00
5	I	Acenaphthene-d10	2000.000	2000.000	0.0	130	0.00
6	S	2-Fluorobiphenyl	500.000	472.034	5.6	131	0.00
7	T	Acenaphthylene	500.000	474.422	5.1	129	0.00
8	T,M	Acenaphthene	500.000	455.546	8.9	122	0.00
9	I	Phenanthrene-d10	2000.000	2000.000	0.0	132	0.00
10	S	Pyrene-d10	500.000	478.705	4.3	128	0.02
11	T	Fluorene	500.000	459.619	8.1	127	0.00
12	T	Phenanthrene	500.000	460.851	7.8	127	0.00
13	T	Anthracene	500.000	472.048	5.6	129	0.00
14	T	Fluoranthene	500.000	461.008	7.8	127	0.02
15	T,M	Pyrene	500.000	470.484	5.9	128	0.02
16	I	Chrysene-d12	2000.000	2000.000	0.0	133	0.01
17	S	Terphenyl-d14	500.000	509.486	-1.9	143	0.02
18	T	Benzo[a]anthracene	500.000	548.028	-9.6	133	0.02
19	T	Chrysene	500.000	476.344	4.7	130	0.02
20	I	Perylene-d12	2000.000	2000.000	0.0	134	0.01
21	T	Benzo[b]fluoranthene	500.000	470.623	5.9	133	0.01
22	T	Benzo(j,k)fluoranthene	500.000	476.605	4.7	128	0.01
23	T	Benzo[a]pyrene	500.000	488.435	2.3	134	0.01
24	T	Indeno(1,2,3-c,d)pyrene	500.000	471.693	5.7	130	0.00
25	T	Dibenz[a,h]anthracene	500.000	469.250	6.2	128	0.00
26	T	Benzo[g,h,i]perylene	500.000	465.812	6.8	129	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823001.D
Acq On : 23 Aug 2024 8:19 am
Operator : JP
Sample : PAH CCV0823-1
Misc : SV6-169-16
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 08:34:10 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration

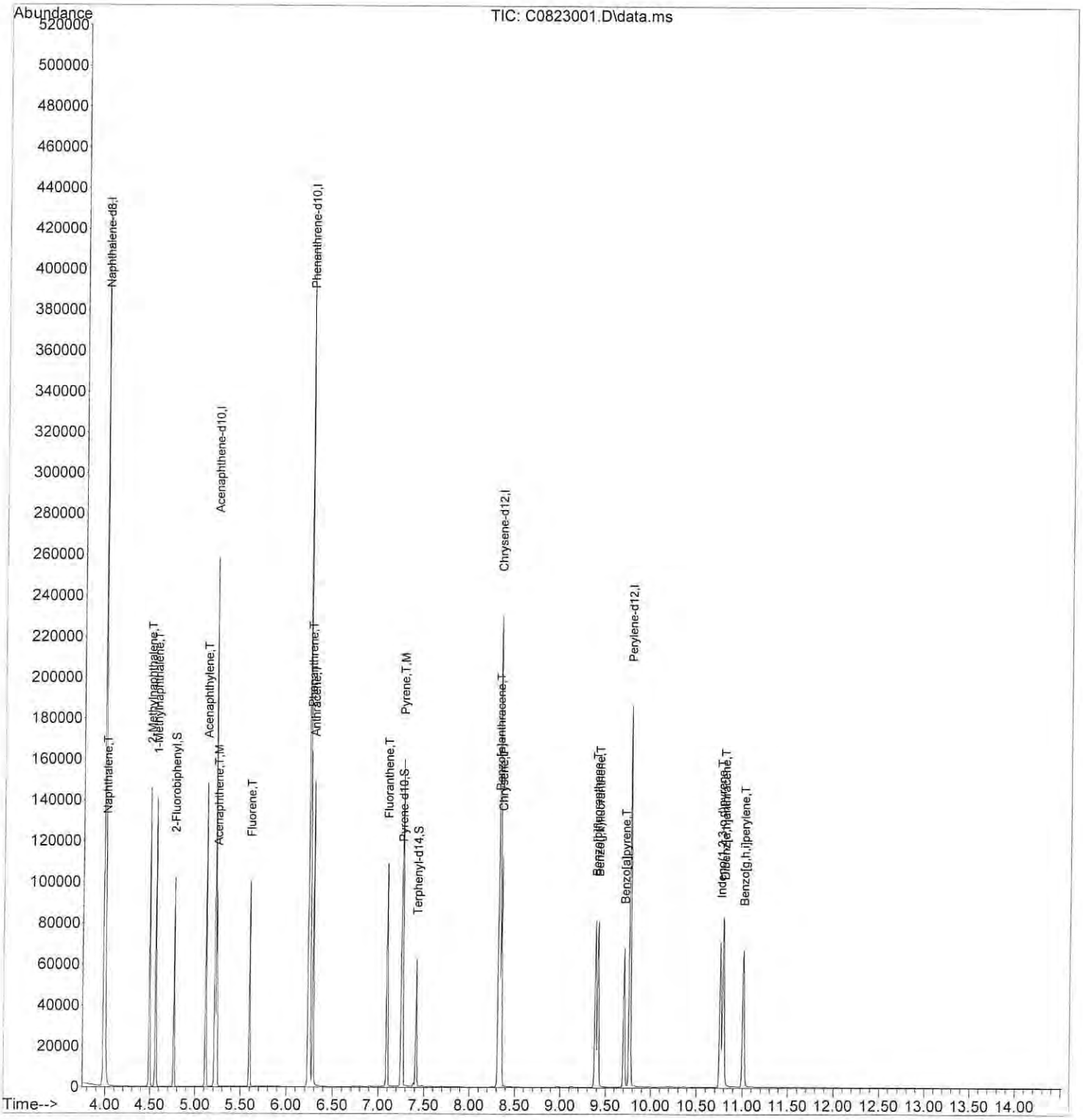
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	3.986	136	309473	2000.00	ppb	0.00
5) Acenaphthene-d10	5.219	164	161939	2000.00	ppb	0.00
9) Phenanthrene-d10	6.241	188	277798	2000.00	ppb	0.00
16) Chrysene-d12	8.330	240	197824	2000.00	ppb	0.01
20) Perylene-d12	9.771	264	197788	2000.00	ppb	0.01
System Monitoring Compounds						
6) 2-Fluorobiphenyl	4.767	172	62931	472.03	ppb	0.00
Spiked Amount 1000.000	Range 25 - 89		Recovery = 47.20%			
10) Pyrene-d10	7.254	212	60574	478.71	ppb	0.02
Spiked Amount 1000.000	Range 40 - 110		Recovery = 47.87%			
17) Terphenyl-d14	7.417	244	49307	509.49	ppb	0.02
Spiked Amount 1000.000	Range 39 - 92		Recovery = 50.95%			
Target Compounds						Qvalue
2) Naphthalene	4.001	128	84798	480.07	ppb	98
3) 2-Methylnaphthalene	4.494	142	52063	484.51	ppb	98
4) 1-Methylnaphthalene	4.563	142	52213	481.33	ppb	98
7) Acenaphthylene	5.119	152	84503	474.42	ppb	100
8) Acenaphthene	5.234	153	52818	455.55	ppb	100
11) Fluorene	5.596	166	59667	459.62	ppb	100
12) Phenanthrene	6.253	178	82733	460.85	ppb	95
13) Anthracene	6.287	178	79191	472.05	ppb	96
14) Fluoranthene	7.091	202	80420	461.01	ppb	89
15) Pyrene	7.264	202	84478	470.48	ppb	95
18) Benzo[a]anthracene	8.319	228	70600	548.03	ppb	95
19) Chrysene	8.353	228	70243	476.34	ppb	97
21) Benzo[b]fluoranthene	9.388	252	74148	470.62	ppb	89
22) Benzo(j,k)fluoranthene	9.417	252	72606	476.61	ppb	91
23) Benzo[a]pyrene	9.707	252	63932	488.43	ppb	89
24) Indeno(1,2,3-c,d)pyrene	10.759	276	65806	471.69	ppb	82
25) Dibenz[a,h]anthracene	10.798	278	67048	469.25	ppb	84
26) Benzo[g,h,i]perylene	11.014	276	68853	465.81	ppb	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\semivols\Corey\DATA\C240823\
Data File : C0823001.D
Acq On : 23 Aug 2024 8:19 am
Operator : JP
Sample : PAH CCV0823-1
Misc : SV6-169-16
ALS Vial : 1 Sample Multiplier: 1

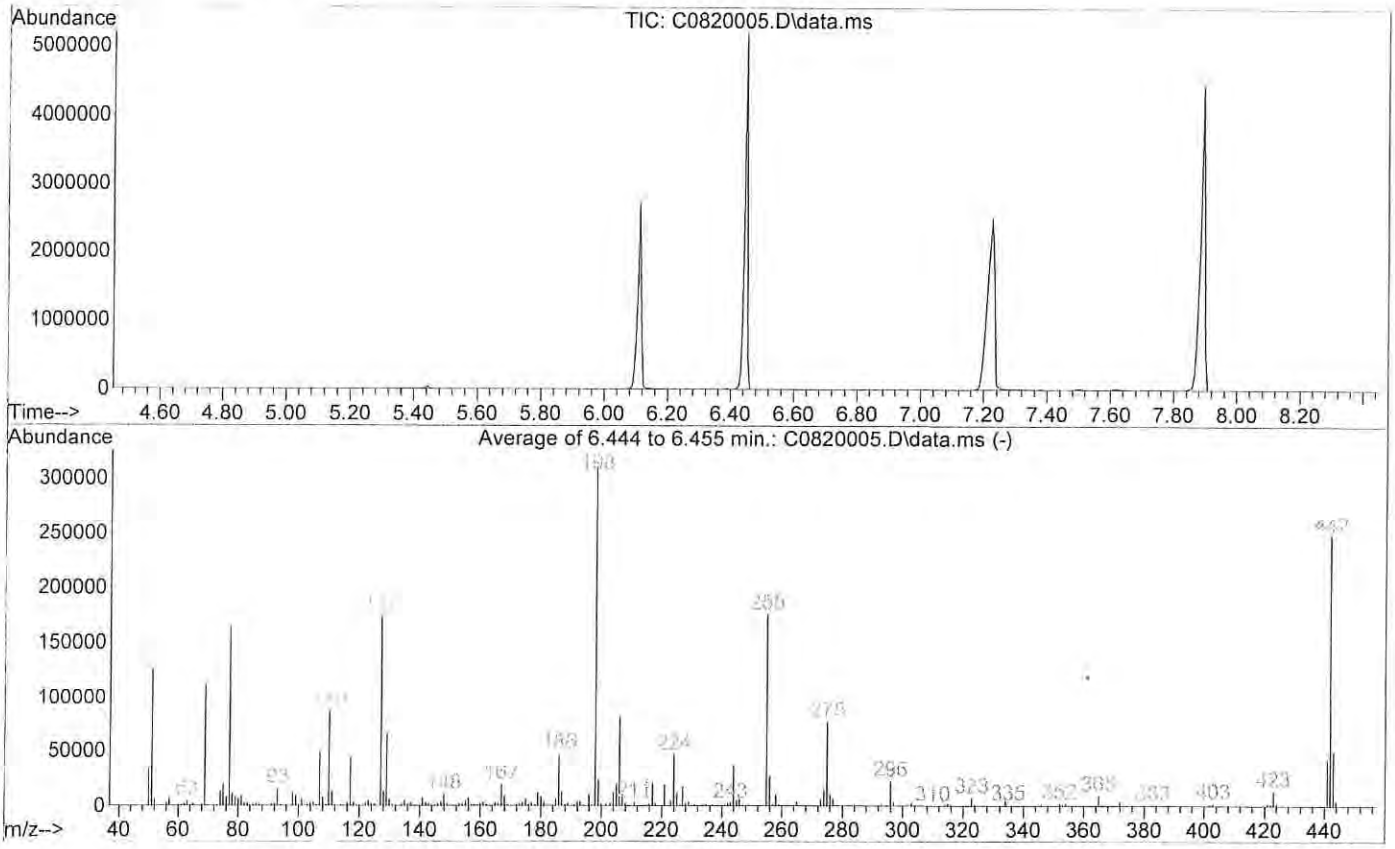
Quant Time: Aug 23 08:34:10 2024
Quant Method : C:\MSDCHEM\1\METHODS\CS240820.M
Quant Title : PAH'S BY SIMS
QLast Update : Tue Aug 20 14:46:01 2024
Response via : Initial Calibration



Data Path : X:\semivols\Corey\DATA\C240820\
Data File : C0820005.D
Acq On : 20 Aug 2024 10:46 am
Operator : JP
Sample : DFTPP
Misc : SV6-164-02
ALS Vial : 5 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\CS240820.M
Title : PAH'S BY SIMS
Last Update : Tue Aug 20 14:46:01 2024



AutoFind: Scans 587, 588, 589; Background Corrected with Scan 579

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.4	125383	PASS
68	69	0.00	2	1.6	1765	PASS
69	198	0.00	100	36.4	112712	PASS
70	69	0.00	2	0.6	692	PASS
127	198	10	80	55.8	173043	PASS
197	198	0.00	2	0.3	970	PASS
198	198	100	100	100.0	310074	PASS
199	198	5	9	7.5	23293	PASS
275	198	10	60	24.8	76913	PASS
365	198	0.10	100	3.0	9269	PASS
441	443	0.01	100	86.5	42704	PASS
442	198	40	110	80.2	248768	PASS
443	442	15	24	19.8	49349	PASS

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240820\C0820016.D
Tune Time : 20 Aug 2024 2:48 pm

Daily Calibration File : X:\semivols\Corey\DATA\C240820\C0820016.D

(PRY)	(NPT)	(ACE)	(PHN)
	271000	134780	229131
	(CRY)	(PRY)	
	159586	160474	

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0820008.D							
	10 PPB ICA	1*	1*	1*	272423	135898	224899
					159671	156301	
C0820009.D							
	20 PPB ICA	2*	2*	2*	255401	127972	216084
					150861	149196	
C0820010.D							
	50 PPB ICA	5*	5*	5*	262973	130108	222578
					154657	152859	
C0820011.D							
	100 PPB IC	10*	10*	10*	268800	130360	224043
					156385	154650	
C0820012.D							
	200 PPB IC	19*	20*	20*	272185	130802	218074
					153276	151261	
C0820013.D							
	500 PPB IC	47	49	47	250949	124990	210314
					148965	147386	
C0820014.D							
	1000 PPB I	90*	96	94*	261767	133166	224315
					160187	158552	
C0820015.D							
	5000 PPB I	395*	440*	425*	257964	134391	222643
					166597	160873	

(fails) - fails 12hr time check * - fails criteria

Created: Fri Aug 23 12:54:48 2024 Corey

GC/MS QA-QC Check Report

Tune File : X:\semivols\Corey\DATA\C240823\C0823001.D
Tune Time : 23 Aug 2024 8:19 am

Daily Calibration File : X:\semivols\Corey\DATA\C240823\C0823001.D

(PRY)	(NPT)	(ACE)	(PHN)
	309473	161939	277798

(CRY)	(PRY)
197824	197788

File	Sample	Surrogate Recovery %			Internal Standard Responses		
C0823009.D							
	SB0823W1	56	85	83	271798	145509	252884
			185069		184526		
C0823010.D							
	SB0823W1 D	49	79	80	288414	151404	262831
			191949		190703		
C0823012.D							
	MB0823W1	74	80	88	288142	151270	265799
			189942		189307		
C0823014.D							
	08-224-02	45	85	90	298541	151315	259320
			184282		185879		
C0823015.D							
	08-224-03	38	71	73	284441	148849	262638
			187083		188559		
C0823016.D							
	08-224-04	50	71	73	288916	145442	255001
			180189		180969		
C0823017.D							
	08-224-05	42	73	75	276828	146036	256428
			185074		182704		
C0823018.D							
	08-224-01	59	80	79	303583	157679	269556
			175491		176403		

(fails) - fails 12hr time check * - fails criteria

Created: Fri Aug 23 15:19:04 2024 Corey

Sequence Name: C:\msdchem\1\sequence\C240820.S
Comment:
Operator: JP
Data Path: C:\MSDCHEM\1\DATA\C240820\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info
1)	Sample 1	C0820001 CS240819 M
2)	Sample 2	C0820002 CS240819 TEST
3)	Sample 3	C0820003 CS240819 TEST
4)	Sample 4	C0820004 CS240819 TEST
5)	Sample 5	C0820005 CSIMSCAN DFTPP
6)	Sample 6	C0820006 CS240819 M
7)	Sample 7	C0820007 CS240819 M
8)	Sample 8	C0820008 CS240819 10 PPB ICAL
9)	Sample 9	C0820009 CS240819 20 PPB ICAL
10)	Sample 10	C0820010 CS240819 50 PPB ICAL
11)	Sample 11	C0820011 CS240819 100 PPB ICAL
12)	Sample 12	C0820012 CS240819 200 PPB ICAL
13)	Sample 13	C0820013 CS240819 500 PPB ICAL
14)	Sample 14	C0820014 CS240819 1000 PPB ICAL
15)	Sample 15	C0820015 CS240819 5000 PPB ICAL
16)	Sample 16	C0820016 CS240819 ICV

OnSite Environmental Inc.

EPA 8270 EXTRACTION LOGBOOK

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Date Extracted: 08/23/24 Time Ext. _____ am/pm

Surrogate Std. ID: SVG-168-29

Analysis: PAH

Spike Std. ID: SVG-155-18

Matrix: H_2O

OSE TRAVELER #	pH	SAMPLE W/V	INTER VOLUME	SAMPLE FIN VOL	AMT SUR	AMT SPIKE	CLEAN UP	ANALYST	COMMENTS/ BATCH QA
MB0823W1	<2	1000mL	25mL	1mL	100µL	/	/	JO	
SB0823W1		↓	↓	↓	↓	100µL	↓	↓	
SBD0823W1		↓	↓	↓	↓	↓	↓	↓	
08-224-01a		1566-505	↓	↓	↓	/	↓	↓	
-02a		1578-506	↓	↓	↓	↓	↓	↓	
-03a		1573-505	↓	↓	↓	↓	↓	↓	
-04a		1557-506	↓	↓	↓	↓	↓	↓	
-05a		1582-506	↓	↓	↓	↓	↓	↓	
08-224-01b RE		1568-506	↓	↓	↓	↓	↓	JP	

Clean-up (L)Alumina

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
2270 ICAL#1	~~SV6147-01~~	SV6147 01	SV6146 [illegible]	1000 ppm	1mL	5mL	200ppm	MeCl2	JP	3/26/24
2270	ICAL #2 07	SV6147 02	SV6146 15	1	1mL					
			16	2000 ppm	0.5mL					
			17	4000 ppm	0.25mL					
	~~BNA~~ 60	SV6147 03	SV6147 1/2	200ppm	60/60 µL	200µL	60 ppm	MeCl2	JP	3/26/24
	50	04			50/50		50			
	35	05			35/35	1	35			
	20	06			40/40	400µL	20			
	10	07			10/10	200µL	10			
	5	08	SV6147 06	20ppm	50		5			
	2	09			20		2			
	1	10			10		1			
	0.5	11			5		0.5			
	ICV	12	SV6137 01/14001	200ppm	20/20		20			
	PAH CCV	SV6147 13	SV6138 09	10ppm	~~200~~ 10µL	200µL	500ppb	MeCl2	JP	3/26/24
	BNA CCV	14	SV6147 1/2	200 ppm	20/20 µL		20ppm			
	BNA CCV	15	1	1	1		1			
	PAH CCV	16	SV6138 09	10	10µL		500ppb			
	PAH CCV	SV6147 17	1	1	1		1			
	BNA CCV	18	SV6147 1/2	200	20/20µL		20ppm			
	BNA CCV	SV6147 19	SV6147 1/2	1	1		1			
	PAH ICV	SV6147 20	SV6138 09	10	10µL		500ppb		JP	3/29/24
	PAH CCV	21	SV6138 09	1	1		1		JP	4/1/24
	BNA CCV	22	SV6147 1/2	200	20/20µL		20ppm			
	BNA CCV	23	1	1	1		1			4/2/24
	PAH CCV	24	SV6138 09	10	10µL		500ppb		JP	4/3/24
	BNA CCV	25	SV6147 1/2	200	20/20µL		20ppm			4/3/24
	PAH MB	SV6147 26								

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
~~SV148~~ B/N Surr Mix	SV014801						MeCl2	JP	4/3/24

RESTEK 31887 — 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Warning
↓Notebook Label↓
Lot# A0207660
Expire: 01/2030 Store: 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required Mix is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date: ______
Opened Date: ______
Made in USA 1 mL
For Laboratory Use Only
↓Vial Label↓

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
DAH ICV	02	SV014726	2000 ppm	50 µL	10 mL	10 ppm			
Stock		14801	1000 "	100 µL	\				
DAH ICV	03	SV014802	10 ppm	10 µL	200 µL	500 ppb			
OPP A	SV014804								4/4/24

RESTEK 32277 — 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Danger
↓Notebook Label↓
Lot# A0203660
Expire: 10/2024 Store: 10°C or colder
8140/8141 OP Pesticide Calibration Mix A
200 µg/mL each in Hexane/Acetone (80:20)
This product is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date: ______
Opened Date: ______
Made in USA 1 mL
For Laboratory Use Only
↓Vial Label↓

Analyte	Lab ID
OPP A	05

RESTEK 32277 — 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Danger
↓Notebook Label↓
Lot# A0205272
Expire: 12/2024 Store: 10°C or colder
8140/8141 OP Pesticide Calibration Mix A
200 µg/mL each in Hexane/Acetone (80:20)
This product is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date: ______
Opened Date: ______
Made in USA 1 mL
For Laboratory Use Only

Analyte	Lab ID
OPP B	06

RESTEK 32278 — 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Danger
↓Notebook Label↓
Lot# A0204092
Expire: 11/2024 Store: 10°C or colder
8141 OP Pesticide Calibration Mix B
200 µg/mL each in Hexane/Acetone (95:5)
This product is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date: ______
Opened Date: ______
Made in USA 1 mL
For Laboratory Use Only

Analyte	Lab ID
OPP B	07

RESTEK 32278 — 110 Benner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com — Danger
↓Notebook Label↓
Lot# A0202657
Expire: 09/2024 Store: 10°C or colder
8141 OP Pesticide Calibration Mix B
200 µg/mL each in Hexane/Acetone (95:5)
This product is photosensitive
Full label information for the chemical is provided on the outside package
Receipt Date: ______
Opened Date: ______
Made in USA 1 mL
For Laboratory Use Only

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP ICAL A	08	SV014804	200 ppm	100 µL	2 mL	10 ppm	MeCl2		
		SV013416	1000 ppm	20					
OPP ICAL	09	SV014806	200 ppm	100					
OPP ICV ICAL A	10	SV014805		100					
		SV013501	1000 ppm	20					
OPP ICV B	11	SV014807	200 ppm	100					
OPP 200	~~200~~ 12	SV014819	10 ppm	4/4 µL	200 µL	200 ppb			
500	13			10/10		500			
1000	14			20/20		1000			
2000	15			40/40		2000			
3000	16			60/60		3000			
4000	17			80/80		4000			

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
~~SV6155~~ Dimethyl Phthalate	SV6155 01							JP	5/20/24

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

APP-9-088-10X 1 mL
Dimethyl phthalate
1000 µg/mL in Methanol
Lot: 221121015
Exp: Mar 03, 2030
1 comp(s)
Storage: Ambient (>5 °C)
PRODUCT OF THE USA
FOR LABORATORY USE ONLY

H225 H336 H370 H320 H315 H311 H332 H301 H360 P338 P360 P331 Refer to SDS
Signal Word: Danger

8270 MDL	SV6155 02	SV612509	1000 ppm	100 µL	10mL	10	ppm	Acetone		
Spike A		SV615420	1	1000		100				
8270 MDL	03	SV615419	1	100		10				
Spike B		SV613620	2000	250		50				
8270 MDL	04	SV612601	1	250		50				
Extra #1		02	1	500		100				
		03	5000	100		50				
		04	1000	500		50				
		05	2000	250		50				
8270 MDL	05	SV615501	1000	1000		100				
Extra #2		SV612607	2000	5		1				
3,3-Dichlorobenzidine	06	SV612601	2000	250		50				
PAH Spike	SV6155-07	SV613708	100ppm	2.5mL	50mL	5ppm		Acetone	JP	5/20/24
OPP 1STD	SV6155 08	SV613516	10000ppm	320µL	8mL	40ppm		MeCl2	JP	5/21/24
OPP 200	SV6155 09	SV614889	10ppm	4/4 µL	200µL	200 ppb				
500	10			10/10		500				
1000	11			20/20		1000				
2000	12			40/40		2000				
3000	13			60/60		3000				
4000	14			80/80		4000				
— ICV	15	SV614810/11		20/20		1000				
8270 CALMix #5	16									

31995 US/EN
8270 Calibration Mix #5, Revised
Lot# A0191064
Expire: 09/2028 Store: 10°C or colder 1 mL
2000 µg/mL each in Methylene Chloride
RESTEK

PAH Stock	17	SV6155 16	2000ppm	1mL	20mL	100ppm		MeCl2	
PAH Spike	18	SV6155 17	100ppm	2.5mL	50mL	5ppm		Acetone	

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
BNA CCV	SV015801	SV614712	2000ppm	20/20µL	200µL	200ppm	MeCl2	JP	6/12/24
PAH CCV	SV0158 02	SV613809	100ppm	10µL	↓	500ppb	↓	↑	↓
5 PAH CCV	03	↓	↓	↓		↓		↓	6/13/24
BNA CCV	04	SV614712	2000µm	20/20µL		200ppm		JP	6/14/24
8270 Megamix	05								

RESTEK 31850 — 110 Benner Circle Bellefonte, PA 16823 — 814-353-1300 — www.restek.com — Warning Danger

Notebook Label

Lot# A0230726 — Expire 04/2025 — Store 0°C or colder

8270 MegaMix®

500-1000 µg/mL each in Methylene Chloride

Sonication required — Mix is photosensitive

Full label information for the chemical is provided on the outside package

Receipt Date: — Opened Date: — Made in USA — For Laboratory Use Only — 1 mL

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Custom Stock 06

AccuStandard® 125 Market St. New Haven, CT 06513 www.AccuStandard.com

1 mL

S-15651

Custom SVOC and VOC Standard

1000 µg/mL in Methylene chloride

5 comp(s)

Lot: 224021347

Storage: Freeze (<-10 °C)

Exp: Mar 26, 2025

FOR LABORATORY USE ONLY

PRODUCT OF THE USA

H315 H335 H332 H302 H350 H350 P338 P360 P331 P233 P262 P202 Refer to SDS

Signal Word: Warning

15

8270 Spike #1	07	SV615805	1000ppm	1mL	5mL	200ppm	Acetone	JP	6/14/24
↓ #2	08	SV615806	↓	↓	↓	↓	↓	↓	↓
BNA CCV	SV0158 09	SV614712	2000ppm	20/20 µL	200µL	20ppm	MeCl2		
PAH CCV	↓ 10	SV613809	100ppm	10 µL	↓	500ppb	↓		

20 Revised B/N Surr SV615811

RESTEK 31887 — 110 Benner Circle Bellefonte, PA 16823 — 814-353-1300 — www.restek.com — Warning

Notebook Label

Lot# A0203840 — Expire 09/2029 — Store 10°C or colder

Revised B/N Surrogate Mix

1000 µg/mL each in Methylene chloride

Sonication required — Mix is photosensitive

Full label information for the chemical is provided on the outside package

Receipt Date: — Opened Date: — Made in USA — For Laboratory Use Only — 1 mL

PAH Surr	SV015812	SV615814	100ppm	1mL	100µL	10ppm	Acetone		
25 BNA CCV	SV0158 13	SV614712	2000ppm	20/20µL	20µL		MeCl2	JP	6/17/24
PAH CCV	↓ 14	SV613809	100ppm	10µL	↓		↓	↓	↓
Revised B/N Surr	SV015815								

RESTEK 31887 — 110 Benner Circle Bellefonte, PA 16823 — 814-353-1300 — www.restek.com — Warning

Notebook Label

Lot# A0197486 — Expire 03/2029 — Store 10°C or colder

Revised B/N Surrogate Mix

1000 µg/mL each in Methylene chloride

Sonication required — Mix is photosensitive

Full label information for the chemical is provided on the outside package

Receipt Date: — Opened Date: — Made in USA — For Laboratory Use Only — 1 mL

30 JP 6/17/24

~~PAH Working~~ SV615816 ~~SV615815~~ 100ppm

~~Stock~~ SV61

8270 Cal Mix #5 SV615816

31995 — US/EN

8270 Calibration Mix #5, Revised

Lot# A0191064 — 1 mL

Expire: 09/2028 — Store: 10°C or colder — sonication required

2000 µg/mL each in Methylene Chloride

RESTEK

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	PAH Working Stock	SV615901	SV615816	2000ppm	50µL	10mL	10ppm	MeCl2	JP	6/17/24
			15	100ppm	100µL					
5	PAH 5000	SV615902	SV615901	10ppm	500µL	1mL	500 ppb			
	1000	03			100		100			
	500	04			50		500			
	200	05			20		200			
	100	06			10		100			
10	50	07	SV615903	1000ppb	50		50			
	20	08			20		20			
	10	09			10		10			
	ICV	10	SV614802	10ppm	10µL		500			
	Dior ICV	SV615911	SV6151-11			200µL	10ppm		JP	6/18/24
15	PAH CCV	SV615912	SV615907							
	BNA CCV	SV615913	V61474/12	2000ppm	20/20µL	200µL	20ppm	MeCl2		
	Dior CCV	SV615914	SV615110	10ppm	10µL	200µL	500ppb		JP	6/19/24
	PAH CCV	15	SV615901							
	PAH CCV	SV615916							JP	6/20/24
20	PAH CCV	SV615917							JP	6/24/24
	PAH ICV	SV615918	SV614802							
	PAH CCV	SV615919	SV615901							6/25/24
	BNA CCV	SV615920	V61474/12	2000ppm	20/20µL		20ppm			
	PAH CCV	SV615921	SV615901	10ppm	10µL	200µL	500ppb	MeCl2	JP	6/26/24
25	PAH CCV	SV615922							JP	6/27/24
	PAH CCV	23							JP	6/28/24
	BNA CCV	24	SV613815 14601	20ppm	20/20µL		20ppm			
	BNA CCV	SV615925	SV61474/12	200ppm	20/20µL	200µL	20ppm	MeCl2	JP	7/1/24
	PAH CCV	SV615926	SV615901	10ppm	10µL		500ppb			
30	OPP 200	SV615927	SV6-148101/11		4/4 µL		200ppb	MeCl2	JP	7/2/24
	500	28			10/10		500			
	1000	29			20/20		1000			
	2000	30			40/40		2000			
	3000	31			60/60		3000			
35	4000	32			80/80		4000			
	ICV	33	SV7148 8/9		20/20		1000			

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
OPP 200	SV61630 01	SV61481018	10ppm	4/4 µL	200µL	200 ppb	MeCl2	JP	7/25/24
500	02			10/10		500			
1000	03			20/20		1000			
2000	04			40/40		2000			
3000	05			60/60		3000			
4000	06			80/80		4000			
ICV	07	SV61488/9		20/20		1000			
BNA CCV	08	SV816115 14601	200ppm	20/20µL		20ppm			
DAH CCV	09	SV615901	10ppm	10µL		500ppb			
OPP ICV	SV816310	SV61488/9		20/20µL		1000ppb			
BNA CCV	SV816311	SV614711L	200ppm	20/20µL		20ppm		JP	7/26/24
DAH CCV	12	SV615901	10ppm	10µL		500ppb			
OPP 200	13	SV614810/11		4/4 µL		200			
500	14			10/10		500			
1000	15			20/20		1000			
2000	16			40/40		2000			
3000	17			60/60		3000			
4000	18			80/80		4000			
ICV	19	SV61488/9		20/20		1000			
ISTD Mix	SV816320							JP	7/29/24

DAH ISTD	SV816321	SV816320	400ppm	0.5mL	50mL	40ppm	MeCl2	JP	7/25/24
DAH ICV	SV816322	SV614802	10ppm	10µL	200µL	500ppb	MeCl2	JP	7/29/24
DAH CCV	SV816323	SV615901	〃	〃	〃	〃		〃	〃
OPP 200	24	SV614810/11	10ppm	4/4 ppb	200µL	200 ppb		JP	7/30/24
500	25			10/10		500			
1000	26			20/20		1000			
2000	27			40/40		2000			
3000	28			60/60		3000			
4000	29			80/80		4000			
ICV	30	SV61488/9		20/20		1000			

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Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final ~~Stock~~ Vol	Final ~~Vol~~ Conc	Solvent	Init	Date
BNA ICV	SV616401	SV616 15 14601	200ppm	20/20µL	200µL	20ppm	MeCl2	JP	7/30/24
DFTPP	SV616402							JP	7/30/24

PAH CCV	SV616403	SV615901	10ppm	10µL	200µL	500ppb	MeCl2	JP	7/31/24
PAH ICV	SV616404	SV614802						JP	8/1/24
PAH CCV	SV616405	SV615901						JP	8/1/24
BNA CCV	SV616406	SV616 15 14601	200ppm	20/20µL		20ppm		JP	8/1/24
PAH ICV	SV616407	SV614802	10ppm	10µL	200µL	500ppb		JP	8/1/24
DFTPP 200	08	SV614881014	10ppm	4/4 µL		200 ppb			8/2/24
500	09			10/10		500			
1000	10			20/20		1000			
2000	11			40/40		2000			
3000	12			60/60		3000			
4000	13			80/80		4000			
ICV	14	SV614881919		20/20		1000			
DAH CCV	15	SV615901		10µL		500ppb			
BNA CCV	16	SV614711 2	200ppm	20/20µL		20ppm			
PAH ICV	17	SV614802	10ppm	10µL	1mL	500 ppb			
PAH 5000	18	SV615901		500µL		5000 ppb			
1000	19			100		1000			
500	20			50		500			
200	21			20		200			
100	22			10		100			
50	23	SV61 84 19	1000ppb	50		50			
20	24			20		20			
10	25			10		10			
PAH ICV	26	SV615901	10ppm	10	200µL	500		JP	8/5/24

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	Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
	PAH CCV	SV61686 01	SV615901	10ppm	10µL	200µL	500ppb	$MeCl_2$	JP	8/14/24
	PAH CCV	02	↓	↓	↓		↓	$MeCl_2$	JP	8/15/24
5	BNA CCV	03	SV616516	2000ppm	20|20µL		20ppm	↓	↓	↓
	BNA 60	04	SV616723	2000ppm	60 µL each		60 ppm			
	50	05			50		50			
	35	06			35		35			
	20	07			40	400µL	20			
10	10	08			10	200µL	10			
	5	09	SV616807	20ppm	40		5			
	2	10			20		2			
	1	11			10		1			
	0.5	12			5		0.5			
15	↓ ICV	13	SV616516	2000ppm	20µL each		20			
	PAH ICV	SV61686 14	SV614802	10ppm	10µL		500ppb			
	BNA 20	15	SV616723	2000ppm	20|20µL		20ppm			
	SVA ICV	16	SV616516|6666							
	BNA ICV	17	↓	↓	↓		↓			
20	PAH 5000	SV6168 18	SV615901	10ppm	500 µL	1mL	5000 ppb		JP	8/16/24
	1000	19			100		1000			
	500	20			50		500			
	200	21			20		200			
	100	22			10		100			
25	50	23	SV616819	1000 ppb	50		50			
	20	24			20		20			
	10	25			10		10			
	PAH ICV	26	SV614802	10ppm	10	200µL	500	$MeCl_2$	JP	8/16/24
	BNA CCV	27	SV616723	2000ppm	20|20	↓	20ppm	↓	↓	↓
30	B/N Surr	28								

RESTEK 31887
Lot# A0207860
Expire 01/2030 Store 10°C or colder
Revised B/N Surrogate Mix
1000 µg/mL each in Methylene chloride
Sonication required. Mix is photosensitive
Full label information for the chemical is provided on the outside package

110 Benner Circle Bellefonte, PA 16823
814-353-1300
www.restek.com

Warning

Recept Date:
Opened Date:
Made in USA
For Laboratory Use Only

(Notebook Label) (Vial Label) 1 mL

	PAH Surr	29	SV616825	1000ppm	1mL	100mL	5ppm	Acetone	JP	8/16/24
35	PAH CCV	SV616830	SV615901	10ppm	10µL	200µL	500ppb	$MeCl_2$	↓	↓

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Work continued from Page

Analyte	Lab ID	Stock ID	Stock Conc	Stock Vol	Final Vol	Final Conc	Solvent	Init	Date
PAH CCV	SV61691-01	SV615501	10ppm	10µL	200µL	500ppb	$MeCl_2$	JP	8/19/24
PAH CCV	SV616902							JP	8/20/24
PAH CCV	SV616903							JP	8/20/24
BNA CCV	SV616904	SV61672/3	200ppm	20/20		20ppm			
8270 Surr Std	SV616905								

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH_2Cl_2
Lot: 223021602 6 comp(s)
Exp: Mar 01, 2033 Storage: Ambient (>5 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

M-8270-SS 1 mL
Method 8270 - Surrogate Standard
4.0 mg/mL in CH_2Cl_2
Lot: 223021602 6 comp(s)
Exp: Mar 01, 2033 Storage: Ambient (>5 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335 H332 H302 H351 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

8270 Surr	SV616906	SV616905	4000ppm	2mL	100mL	80ppm	Acetone	JP	
PAH CCV	SV616907	SV614802	10ppm	10µL	200µL	500ppb	$MeCl_2$	JP	8/20/24
8270 Megamix	SV616908							JP	8/21/24

RESTEK 31850 Lot# A0212740 Expire: 04/2025 Store: 0°C or colder
8270 Mega Mix®
500-1000 µg/mL each in Methylene Chloride
Sonication required. Mix is photosensitive
Full label information for the chemical is provided on the outside package
110 Renner Circle Bellefonte, PA 16823 814-353-1300 www.restek.com
Warning Danger
Receipt Date: Opened Date: Made in USA For Laboratory Use Only
1 mL

AccuStandard® 125 Market St, New Haven, CT 06513 www.AccuStandard.com

S-15651 1 mL
Custom SVOC and VOC Standard
1000 µg/mL in Methylene chloride
Lot: 224021347 5 comp(s)
Exp: Mar 26, 2025 Storage: Freeze (<-10 °C)
PRODUCT OF THE USA FOR LABORATORY USE ONLY

H315 H335 H332 H302 H350 H350 P338 P360 P331 P233 P262 P202 Refer to SDS
Signal Word: Warning

Custom SVOC Mix	09								
8270 Spike #1	10	SV616908	1000ppm	1mL	5mL	200ppm	Acetone		
1 #2	11	1 09	1	1	1	1	1		
PAH CCV	SV616912	SV615501	10ppm	10µL	200µL	500ppb	MeCl	JP	8/25/24
BNA CCV	13	SV61672/3	200ppm	20/20µL		20ppm		1	1
BNA CCV	SV616914	1	1	1	1	1	1	JP	8/22/24
PAH CCV	SV616915	SV615501	10ppm	10µL	200µL	500ppb	$MeCl_2$	JP	8/22/24
PAH CCV	SV616916	1	1	1	1	1	1	JP	8/23/24
BNA CCV	1 17	SV61672/3	200ppm	20/20µL	1	20ppm	1	1	1

Work continued to Page

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Total Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

KPM
8-26-24

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\
Report Date/Time: Monday, August 26, 2024 11:19:14

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [	[STD/KED] Nebulizer (	07:07:45 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:09:57 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:12:05 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:14:15 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - M	Mass Calibration and I	07:16:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - M	Mass Calibration and I	07:17:15 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:17:57 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:19:17 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:20:36 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:22:55 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Sample	07:29:50 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Sample	07:34:00 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	07:38:11 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Blank	07:43:04 Mon 26-A	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 1	07:46:24 Mon 26-A	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 2	07:49:45 Mon 26-A	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 3	07:53:05 Mon 26-A	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 4	07:56:25 Mon 26-A	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 5	07:59:45 Mon 26-A	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 6	08:03:05 Mon 26-A	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 7	08:06:25 Mon 26-A	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 1	08:10:35 Mon 26-A	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 2	08:14:46 Mon 26-A	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	08:18:06 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	08:22:16 Mon 26-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	08:26:26 Mon 26-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	MB0826D1 2X	08:29:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	SB0826D1 2X	08:37:20 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-01d 10X	08:41:29 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-02d 10X	08:45:38 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-03d 10X	08:49:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04d 10X	08:53:56 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-05d 10X	08:58:05 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dD 10X	09:02:16 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dL 50X	09:06:25 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dMS 10X	09:10:35 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	09:14:46 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	09:18:56 Mon 26-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	09:23:07 Mon 26-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dMSD 10X	09:27:34 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	MB0826WM1 2X	09:31:43 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	SB0826WM1 2X	09:43:42 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05a 2X	09:47:50 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aD 2X	09:51:59 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aL 10X	09:56:08 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aMS 2X	10:00:17 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aMSD 2X	10:04:26 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aPS 2X	10:08:36 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-01c 10X	10:26:27 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	10:30:38 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	

QC Std 7	10:34:49 Mon 26-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 8	10:39:00 Mon 26-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-02c 10X	10:43:34 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-03c 10X	10:47:44 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-04c 10X	10:51:53 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-05c 10X	10:56:02 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 6	11:00:12 Mon 26-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
BL	11:04:42 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 6	11:08:52 Mon 26-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 7	11:13:03 Mon 26-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 8	11:17:14 Mon 26-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Start Time: 8/26/2024 7:16:47 AM
End Time: 8/26/2024 7:17:45 AM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.692)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.702)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 8/26/2024 7:22:54 AM

[STD] Performance Check

Optimization Settings:

Method: \Optimizations\STD Performance Check.mth.
Intensity Criterion: Li 7 > 55000
Intensity Criterion: In 115 > 300000
Intensity Criterion: U 238 > 225000
Intensity Criterion: Bkgd 220.5 <= 5
Formula Criterion: Ce++ 70 ÷ Ce 140 <= 0.03
Formula Criterion: CeO 156 ÷ Ce 140 <= 0.025
RSD Criterion: Li 7.016 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Li 7): 83830.31
Obtained Intensity (In 115): 353286.72
Obtained Intensity (U 238): 234529.61
Obtained Intensity (Bkgd 220.5): 0.90
Obtained Formula (Ce++ 70 ÷ Ce 140): 0.009 (=3701.61 ÷ 390450.62)
Obtained Formula (CeO 156 ÷ Ce 140): 0.025 (=9568.67 ÷ 390450.62)
Obtained RSD (Li 7): 0.0044
Obtained RSD (In 115): 0.0126
Obtained RSD (U 238): 0.0070

[Passed] Optimum value(s): N/A

End Time: 8/26/2024 7:25:00 AM

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni	57.935	Weighted Linear	0.02	0.00	0.999831
Ni -1	59.933	Weighted Linear	0.01	0.00	0.999747
Ni -2	61.928	Weighted Linear	0.00	0.00	0.999615
As	74.922	Weighted Linear	0.01	0.00	0.999911
As-1	74.922	Weighted Linear	0.01	-0.00	0.999317
Se	76.920	Weighted Linear	0.00	0.00	0.999853
Se -1	77.917	Weighted Linear	0.00	0.00	0.998953
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	0.00	0.999643
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Ni -3	57.935	Weighted Linear	0.07	0.00	0.999599
Ni -4	59.933	Weighted Linear	0.03	0.00	0.999653
Ni -5	61.928	Weighted Linear	0.01	0.00	0.999172
As-2	74.922	Weighted Linear	0.01	-0.00	0.998311
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, August 26, 2024 07:43:04
Report Date/Time: Monday, August 26, 2024 07:44:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Blank.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-9342.9	2.2				ug/L		Standard
|	**Ni -1**	60	582.0	4.1				ug/L		Standard
|	**Ni -2**	62	3054.7	0.6				ug/L		Standard
|	**As**	75	25703.0	0.6				ug/L		Standard
|	**As-1**	75	1358.8	3.7				ug/L		Standard
|	**Se**	77	259.0	4.1				ug/L		Standard
|	**Se -1**	78	25820.3	0.8				ug/L		Standard
|	**Br**	79	715.0	3.2				ug/L		Standard
|	**Se -2**	82	617.3	3.7				ug/L		Standard
	Kr	83	646.3	5.6				ug/L		Standard
	Y	89	2084970.2	0.7				ug/L		Standard
|	**Rh**	103	1339953.1	0.5				ug/L		Standard
|	**Ni -3**	58	229.0	4.6				ug/L		KED
|	**Ni -4**	60	94.3	6.4				ug/L		KED
|	**Ni -5**	62	13.7	4.2				ug/L		KED
|	**As-2**	75	8.0	45.1				ug/L		KED
	Y-1	89	151628.4	0.2				ug/L		KED
	Rh-1	103	379534.0	0.6				ug/L		KED
|>	**Ge**	72	1316182.2	1.1				ug/L		Standard
|>	**In**	115	994104.9	0.3				ug/L		Standard
|>	**Ge-1**	72	67787.1	0.8				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, August 26, 2024 07:46:24
Report Date/Time: Monday, August 26, 2024 07:48:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 1.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	Ni	58	-4877.6	0.3				ug/L	-9343	Standard
|	Ni -1	60	2700.9	1.0				ug/L	582	Standard
|	Ni -2	62	3404.4	1.1				ug/L	3055	Standard
|	As	75	27582.2	0.2				ug/L	25703	Standard
|	As-1	75	2753.7	3.5				ug/L	1359	Standard
|	Se	77	366.0	5.3				ug/L	259	Standard
|	Se -1	78	26694.6	0.5				ug/L	25820	Standard
|	Br	79	765.0	1.3				ug/L	715	Standard
|	Se -2	82	771.7	4.3				ug/L	617	Standard
	Kr	83	628.3	5.8				ug/L	646	Standard
	Y	89	2119085.7	0.3				ug/L	2084970	Standard
|	Rh	103	1496770.7	0.7				ug/L	1339953	Standard
|	Ni -3	58	1234.8	2.2				ug/L	229	KED
|	Ni -4	60	551.3	6.5				ug/L	94	KED
|	Ni -5	62	90.3	2.8				ug/L	14	KED
|	As-2	75	93.3	17.1				ug/L	8	KED
	Y-1	89	151423.0	0.9				ug/L	151628	KED
	Rh-1	103	412720.0	0.4				ug/L	379534	KED
|>	Ge	72	1349969.2	0.6				ug/L	1316182	Standard
|>	In	115	1011868.8	0.2				ug/L	994105	Standard
|>	Ge-1	72	67690.3	0.5				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, August 26, 2024 07:49:45
Report Date/Time: Monday, August 26, 2024 07:51:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 2.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4416.0	8.0				ug/L	-9343	Standard
|	**Ni -1**	60	6414.4	0.5				ug/L	582	Standard
|	**Ni -2**	62	3951.5	1.0				ug/L	3055	Standard
|	**As**	75	29948.7	1.0				ug/L	25703	Standard
|	**As-1**	75	5130.6	1.4	**0.5000**	0.006	1.2	ug/L	1359	Standard
|	**Se**	77	512.7	2.8				ug/L	259	Standard
|	**Se -1**	78	27158.1	0.6				ug/L	25820	Standard
|	**Br**	79	734.0	5.1				ug/L	715	Standard
|	**Se -2**	82	958.4	4.3				ug/L	617	Standard
	Kr	83	621.7	7.9				ug/L	646	Standard
	Y	89	2115000.8	0.3				ug/L	2084970	Standard
|	**Rh**	103	1499381.4	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	2991.4	1.5				ug/L	229	KED
|	**Ni -4**	60	1370.1	3.4				ug/L	94	KED
|	**Ni -5**	62	204.3	7.9				ug/L	14	KED
|	**As-2**	75	259.7	8.2	**0.5000**	0.038	7.6	ug/L	8	KED
	Y-1	89	153673.8	0.6				ug/L	151628	KED
	Rh-1	103	415952.1	0.6				ug/L	379534	KED
| >	**Ge**	72	1329986.3	0.8				ug/L	1316182	Standard
| >	**In**	115	1008179.0	0.6				ug/L	994105	Standard
| >	**Ge-1**	72	67813.2	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, August 26, 2024 07:53:05
Report Date/Time: Monday, August 26, 2024 07:54:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 3.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	45934.9	2.0				ug/L	-9343	Standard
|	**Ni -1**	60	23134.7	0.8	**2.0000**	0.032	1.6	ug/L	582	Standard
|	**Ni -2**	62	6421.1	1.2	**2.0000**	0.054	2.7	ug/L	3055	Standard
|	**As**	75	40360.4	0.6	**2.0000**	0.053	2.6	ug/L	25703	Standard
|	**As-1**	75	15681.0	1.0	**1.9428**	0.019	1.0	ug/L	1359	Standard
|	**Se**	77	1200.4	1.3	**2.0000**	0.012	0.6	ug/L	259	Standard
|	**Se -1**	78	29492.4	0.3				ug/L	25820	Standard
|	**Br**	79	747.7	4.8				ug/L	715	Standard
|	**Se -2**	82	1932.1	0.6	**2.0000**	0.017	0.9	ug/L	617	Standard
	Kr	83	620.7	2.8				ug/L	646	Standard
	Y	89	2122700.3	0.5				ug/L	2084970	Standard
|	**Rh**	103	1476828.7	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	10938.6	1.6	**2.0000**	0.043	2.2	ug/L	229	KED
|	**Ni -4**	60	4837.8	0.8	**2.0000**	0.017	0.9	ug/L	94	KED
|	**Ni -5**	62	769.4	1.2	**2.0000**	0.035	1.8	ug/L	14	KED
|	**As-2**	75	923.0	0.7	**1.8956**	0.010	0.5	ug/L	8	KED
	Y-1	89	154448.8	0.3				ug/L	151628	KED
	Rh-1	103	416222.0	0.2				ug/L	379534	KED
|>	**Ge**	72	1326034.6	1.0				ug/L	1316182	Standard
|>	**In**	115	1002577.9	0.7				ug/L	994105	Standard
|>	**Ge-1**	72	68493.1	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, August 26, 2024 07:56:25
Report Date/Time: Monday, August 26, 2024 07:58:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 4.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	120104.1	2.2	**5.0000**	0.061	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	53937.0	1.9	**4.9762**	0.040	0.8	ug/L	582	Standard
|	**Ni -2**	62	10913.8	1.8	**4.9854**	0.064	1.3	ug/L	3055	Standard
|	**As**	75	59624.8	0.5	**5.0291**	0.140	2.8	ug/L	25703	Standard
|	**As-1**	75	35580.5	0.4	**4.8894**	0.070	1.4	ug/L	1359	Standard
|	**Se**	77	2588.9	1.8	**5.0914**	0.022	0.4	ug/L	259	Standard
|	**Se -1**	78	33359.6	0.2	**5.0000**	0.335	6.7	ug/L	25820	Standard
|	**Br**	79	707.7	0.7				ug/L	715	Standard
|	**Se -2**	82	3704.5	1.6	**4.9746**	0.119	2.4	ug/L	617	Standard
	Kr	83	648.0	2.5				ug/L	646	Standard
	Y	89	2041081.5	1.2				ug/L	2084970	Standard
|	**Rh**	103	1427597.1	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	25597.4	0.7	**4.9728**	0.040	0.8	ug/L	229	KED
|	**Ni -4**	60	11277.8	1.7	**4.9816**	0.106	2.1	ug/L	94	KED
|	**Ni -5**	62	1746.4	0.5	**4.8969**	0.011	0.2	ug/L	14	KED
|	**As-2**	75	2263.5	1.0	**4.8873**	0.072	1.5	ug/L	8	KED
	Y-1	89	150582.8	0.3				ug/L	151628	KED
	Rh-1	103	402097.1	0.6				ug/L	379534	KED
|>	**Ge**	72	1277916.0	1.5				ug/L	1316182	Standard
|>	**In**	115	967247.2	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	66356.8	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, August 26, 2024 07:59:45
Report Date/Time: Monday, August 26, 2024 08:01:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 5.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	509133.3	0.3	**19.9600**	0.038	0.2	ug/L	-9343	Standard
|	**Ni -1**	60	210793.2	0.6	**19.4999**	0.068	0.3	ug/L	582	Standard
|	**Ni -2**	62	34236.3	0.4	**19.4773**	0.055	0.3	ug/L	3055	Standard
|	**As**	75	162231.5	0.3	**19.6819**	0.123	0.6	ug/L	25703	Standard
|	**As-1**	75	138442.2	0.3	**19.3244**	0.096	0.5	ug/L	1359	Standard
|	**Se**	77	9683.3	0.6	**20.0380**	0.145	0.7	ug/L	259	Standard
|	**Se -1**	78	55757.3	0.6	**19.2766**	0.177	0.9	ug/L	25820	Standard
|	**Br**	79	652.7	6.1				ug/L	715	Standard
|	**Se -2**	82	12626.2	1.1	**19.2727**	0.174	0.9	ug/L	617	Standard
	Kr	83	672.3	4.5				ug/L	646	Standard
	Y	89	2055733.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	1164901.6	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	99932.0	0.9	**19.4655**	0.147	0.8	ug/L	229	KED
|	**Ni -4**	60	44055.8	0.5	**19.5383**	0.240	1.2	ug/L	94	KED
|	**Ni -5**	62	6775.3	1.0	**19.2055**	0.266	1.4	ug/L	14	KED
|	**As-2**	75	9022.8	1.9	**19.2880**	0.233	1.2	ug/L	8	KED
	Y-1	89	154972.0	0.4				ug/L	151628	KED
	Rh-1	103	335619.7	0.1				ug/L	379534	KED
|>	**Ge**	72	1312501.6	0.2				ug/L	1316182	Standard
|>	**In**	115	986770.5	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	68234.9	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, August 26, 2024 08:03:05
Report Date/Time: Monday, August 26, 2024 08:04:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 6.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1066742.7	0.5	**40.5327**	0.279	0.7	ug/L	-9343	Standard
|	**Ni -1**	60	430257.8	1.3	**39.5324**	0.603	1.5	ug/L	582	Standard
|	**Ni -2**	62	66742.9	0.7	**39.4558**	0.137	0.3	ug/L	3055	Standard
|	**As**	75	306035.3	0.8	**39.8936**	0.183	0.5	ug/L	25703	Standard
|	**As-1**	75	284109.9	1.0	**39.4604**	0.278	0.7	ug/L	1359	Standard
|	**Se**	77	19160.2	0.5	**39.7452**	0.295	0.7	ug/L	259	Standard
|	**Se -1**	78	86451.5	0.7	**39.1508**	0.476	1.2	ug/L	25820	Standard
|	**Br**	79	665.3	5.3				ug/L	715	Standard
|	**Se -2**	82	25447.0	0.2	**39.5127**	0.131	0.3	ug/L	617	Standard
	Kr	83	652.3	1.9				ug/L	646	Standard
	Y	89	2090592.5	0.7				ug/L	2084970	Standard
|	**Rh**	103	1201354.6	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	201943.5	0.7	**39.3842**	0.360	0.9	ug/L	229	KED
|	**Ni -4**	60	89085.2	0.7	**39.5221**	0.408	1.0	ug/L	94	KED
|	**Ni -5**	62	13732.3	1.1	**39.0952**	0.661	1.7	ug/L	14	KED
|	**As-2**	75	18247.0	1.3	**39.0297**	0.583	1.5	ug/L	8	KED
	Y-1	89	156266.1	1.0				ug/L	151628	KED
	Rh-1	103	339805.4	0.9				ug/L	379534	KED
| >	**Ge**	72	1331299.4	0.4				ug/L	1316182	Standard
| >	**In**	115	1012949.8	1.0				ug/L	994105	Standard
| >	**Ge-1**	72	68768.1	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, August 26, 2024 08:06:25
Report Date/Time: Monday, August 26, 2024 08:08:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 7.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	2552171.1	0.9	**97.9260**	0.215	0.2	ug/L	-9343	Standard
|	**Ni -1**	60	1049137.1	1.4	**97.5882**	0.614	0.6	ug/L	582	Standard
|	**Ni -2**	62	156209.9	1.6	**96.3734**	0.471	0.5	ug/L	3055	Standard
|	**As**	75	713059.6	0.7	**98.7265**	0.412	0.4	ug/L	25703	Standard
|	**As-1**	75	694802.2	0.4	**97.6847**	0.686	0.7	ug/L	1359	Standard
|	**Se**	77	46639.7	0.3	**98.4087**	0.935	1.0	ug/L	259	Standard
|	**Se -1**	78	175049.7	0.8	**98.3283**	0.728	0.7	ug/L	25820	Standard
|	**Br**	79	637.0	3.2				ug/L	715	Standard
|	**Se -2**	82	61782.0	0.6	**98.2832**	1.713	1.7	ug/L	617	Standard
	Kr	83	694.4	3.4				ug/L	646	Standard
	Y	89	2089441.5	0.6				ug/L	2084970	Standard
|	**Rh**	103	1174331.5	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	490586.8	0.7	**96.4291**	0.671	0.7	ug/L	229	KED
|	**Ni -4**	60	215434.3	0.4	**96.3763**	0.485	0.5	ug/L	94	KED
|	**Ni -5**	62	33372.9	1.1	**95.9092**	1.078	1.1	ug/L	14	KED
|	**As-2**	75	44491.8	0.7	**95.7639**	0.433	0.5	ug/L	8	KED
	Y-1	89	157689.2	0.9				ug/L	151628	KED
	Rh-1	103	332503.0	1.1				ug/L	379534	KED
| >	**Ge**	72	1326613.6	1.1				ug/L	1316182	Standard
| >	**In**	115	1016299.3	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	69079.6	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, August 26, 2024 08:10:35
Report Date/Time: Monday, August 26, 2024 08:12:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 1.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1367303.4	0.7	**50.0420**	0.639	1.3	ug/L	-9343	Standard
|	**Ni -1**	60	551665.7	0.4	**48.7824**	0.342	0.7	ug/L	582	Standard
|	**Ni -2**	62	83843.3	0.3	**48.2533**	0.167	0.3	ug/L	3055	Standard
|	**As**	75	386651.0	0.6	**49.1048**	0.488	1.0	ug/L	25703	Standard
|	**As-1**	75	367239.8	0.6	**49.0382**	0.435	0.9	ug/L	1359	Standard
|	**Se**	77	25273.7	1.0	**50.4594**	0.460	0.9	ug/L	259	Standard
|	**Se -1**	78	104059.3	0.2	**47.9824**	0.402	0.8	ug/L	25820	Standard
|	**Br**	79	663.0	3.4				ug/L	715	Standard
|	**Se -2**	82	33368.6	0.4	**50.0010**	0.159	0.3	ug/L	617	Standard
	Kr	83	626.7	5.2				ug/L	646	Standard
	Y	89	2158985.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	493830.4	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	260610.8	0.5	**48.8118**	0.649	1.3	ug/L	229	KED
|	**Ni -4**	60	114375.7	0.3	**48.7420**	0.386	0.8	ug/L	94	KED
|	**Ni -5**	62	17645.6	0.2	**48.3192**	0.569	1.2	ug/L	14	KED
|	**As-2**	75	23535.4	0.4	**48.3158**	0.688	1.4	ug/L	8	KED
	Y-1	89	169870.3	0.2				ug/L	151628	KED
	Rh-1	103	141074.2	0.5				ug/L	379534	KED
|>	**Ge**	72	1394095.0	0.6				ug/L	1316182	Standard
|>	**In**	115	1101204.7	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	72424.5	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.084	
|	Ni -1	60	97.565	
|	Ni -2	62	96.507	
|	As	75	98.210	
|	As-1	75	98.076	
|	Se	77	100.919	
|	Se -1	78	95.965	
|	Br	79		
|	Se -2	82	100.002	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.624	
|	Ni -4	60	97.484	
|	Ni -5	62	96.638	
|	As-2	75	96.632	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		105.920
|>	In	115		110.773
|>	Ge-1	72		106.841

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, August 26, 2024 08:14:46
Report Date/Time: Monday, August 26, 2024 08:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 2.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-6557.5	5.4	**-0.0198**	0.014	69.7	ug/L	-9343	Standard
|	**Ni -1**	60	854.4	13.0	**-0.0183**	0.011	59.9	ug/L	582	Standard
|	**Ni -2**	62	3209.7	2.5	**0.0919**	0.050	54.6	ug/L	3055	Standard
|	**As**	75	23996.4	1.3	**-0.2476**	0.045	18.2	ug/L	25703	Standard
|	**As-1**	75	1350.7	10.7	**0.0089**	0.021	234.3	ug/L	1359	Standard
|	**Se**	77	236.0	10.8	**-0.0692**	0.054	78.4	ug/L	259	Standard
|	**Se -1**	78	24081.6	1.5	**-1.1874**	0.232	19.5	ug/L	25820	Standard
|	**Br**	79	653.3	2.4				ug/L	715	Standard
|	**Se -2**	82	599.0	7.5	**-0.0517**	0.073	141.7	ug/L	617	Standard
	Kr	83	603.7	6.5				ug/L	646	Standard
	Y	89	1879283.4	1.0				ug/L	2084970	Standard
|	**Rh**	103	1310465.5	1.3				ug/L	1339953	Standard
|	**Ni -3**	58	313.4	8.0	**-0.0418**	0.006	13.4	ug/L	229	KED
|	**Ni -4**	60	139.0	12.6	**-0.0662**	0.008	11.6	ug/L	94	KED
|	**Ni -5**	62	21.7	37.3	**-0.0438**	0.023	53.5	ug/L	14	KED
|	**As-2**	75	13.7	18.4	**0.0161**	0.005	33.6	ug/L	8	KED
	Y-1	89	154173.5	0.3				ug/L	151628	KED
	Rh-1	103	374979.7	0.6				ug/L	379534	KED
| >	**Ge**	72	1289742.1	0.4				ug/L	1316182	Standard
| >	**In**	115	977337.9	1.2				ug/L	994105	Standard
| >	**Ge-1**	72	67557.7	1.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		97.991
| >	In	115		98.313
| >	Ge-1	72		99.662

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 08:18:06
Report Date/Time: Monday, August 26, 2024 08:19:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1002757.7	1.0	**40.3113**	0.409	1.0	ug/L	-9343	Standard
|	**Ni -1**	60	405583.8	0.8	**39.3292**	0.164	0.4	ug/L	582	Standard
|	**Ni -2**	62	62974.5	1.0	**39.4163**	0.574	1.5	ug/L	3055	Standard
|	**As**	75	291528.5	0.3	**39.9652**	0.071	0.2	ug/L	25703	Standard
|	**As-1**	75	270960.9	0.7	**39.6610**	0.090	0.2	ug/L	1359	Standard
|	**Se**	77	18453.6	0.6	**40.3081**	0.441	1.1	ug/L	259	Standard
|	**Se -1**	78	82094.2	0.9	**39.1691**	0.740	1.9	ug/L	25820	Standard
|	**Br**	79	626.7	4.9				ug/L	715	Standard
|	**Se -2**	82	24263.6	0.7	**39.6796**	0.227	0.6	ug/L	617	Standard
	Kr	83	671.0	1.5				ug/L	646	Standard
	Y	89	1808204.0	0.4				ug/L	2084970	Standard
|	**Rh**	103	1139476.6	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	195170.8	0.1	**39.0827**	0.055	0.1	ug/L	229	KED
|	**Ni -4**	60	86647.6	0.1	**39.4765**	0.085	0.2	ug/L	94	KED
|	**Ni -5**	62	13260.2	0.8	**38.8212**	0.335	0.9	ug/L	14	KED
|	**As-2**	75	17711.6	1.8	**38.8919**	0.673	1.7	ug/L	8	KED
	Y-1	89	152702.5	0.6				ug/L	151628	KED
	Rh-1	103	328947.2	0.7				ug/L	379534	KED
|>	**Ge**	72	1270624.1	0.5				ug/L	1316182	Standard
|>	**In**	115	962571.0	0.5				ug/L	994105	Standard
|>	**Ge-1**	72	67698.7	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.778	
|	Ni -1	60	98.323	
|	Ni -2	62	98.541	
|	As	75	99.913	
|	As-1	75	99.152	
|	Se	77	100.770	
|	Se -1	78	97.923	
|	Br	79		
|	Se -2	82	99.199	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.707	
|	Ni -4	60	98.691	
|	Ni -5	62	97.053	
|	As-2	75	97.230	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		96.539
|>	In	115		96.828
|>	Ge-1	72		99.870

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 08:22:16
Report Date/Time: Monday, August 26, 2024 08:24:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	476121.8	0.4	**19.9245**	0.285	1.4	ug/L	-9343	Standard
|	**Ni -1**	60	195351.4	1.0	**19.5477**	0.117	0.6	ug/L	582	Standard
|	**Ni -2**	62	31992.8	0.9	**19.7732**	0.088	0.4	ug/L	3055	Standard
|	**As**	75	153159.3	0.8	**19.9891**	0.113	0.6	ug/L	25703	Standard
|	**As-1**	75	131823.2	0.7	**19.8696**	0.105	0.5	ug/L	1359	Standard
|	**Se**	77	9134.6	1.9	**20.3550**	0.204	1.0	ug/L	259	Standard
|	**Se -1**	78	52526.4	0.4	**19.9811**	0.253	1.3	ug/L	25820	Standard
|	**Br**	79	590.3	7.3				ug/L	715	Standard
|	**Se -2**	82	12316.3	0.5	**20.3442**	0.266	1.3	ug/L	617	Standard
	Kr	83	673.7	3.0				ug/L	646	Standard
	Y	89	1903198.9	6.4				ug/L	2084970	Standard
|	**Rh**	103	1105525.6	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	93882.6	0.2	**19.2569**	0.234	1.2	ug/L	229	KED
|	**Ni -4**	60	41630.6	0.5	**19.4160**	0.282	1.5	ug/L	94	KED
|	**Ni -5**	62	6372.4	1.9	**19.1095**	0.510	2.7	ug/L	14	KED
|	**As-2**	75	8612.6	1.4	**19.4179**	0.327	1.7	ug/L	8	KED
	Y-1	89	149044.8	0.7				ug/L	151628	KED
	Rh-1	103	317354.3	0.4				ug/L	379534	KED
|>	**Ge**	72	1228196.3	1.0				ug/L	1316182	Standard
|>	**In**	115	941359.4	0.1				ug/L	994105	Standard
|>	**Ge-1**	72	65915.4	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.623	
|	Ni -1	60	97.739	
|	Ni -2	62	98.866	
|	As	75	99.945	
|	As-1	75	99.348	
|	Se	77	101.775	
|	Se -1	78	99.906	
|	Br	79		
|	Se -2	82	101.721	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	96.285	
|	Ni -4	60	97.080	
|	Ni -5	62	95.548	
|	As-2	75	97.089	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		93.315
|>	In	115		94.694
|>	Ge-1	72		97.239

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 08:26:26
Report Date/Time: Monday, August 26, 2024 08:28:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5799.6	1.0	**0.0050**	0.002	31.1	ug/L	-9343	Standard
|	**Ni -1**	60	823.4	11.2	**-0.0195**	0.009	45.7	ug/L	582	Standard
|	**Ni -2**	62	2992.0	2.3	**-0.0060**	0.046	769.9	ug/L	3055	Standard
|	**As**	75	23490.8	1.7	**-0.2454**	0.044	18.1	ug/L	25703	Standard
|	**As-1**	75	1267.9	12.1	**0.0010**	0.022	2313.6	ug/L	1359	Standard
|	**Se**	77	241.3	6.9	**-0.0457**	0.037	80.8	ug/L	259	Standard
|	**Se -1**	78	23579.1	1.4	**-1.1733**	0.145	12.3	ug/L	25820	Standard
|	**Br**	79	651.0	1.5				ug/L	715	Standard
|	**Se -2**	82	567.0	5.9	**-0.0838**	0.055	65.9	ug/L	617	Standard
	Kr	83	665.7	2.1				ug/L	646	Standard
	Y	89	1773687.2	0.3				ug/L	2084970	Standard
|	**Rh**	103	1290609.0	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	326.1	12.1	**-0.0395**	0.007	18.8	ug/L	229	KED
|	**Ni -4**	60	137.0	10.0	**-0.0672**	0.006	9.3	ug/L	94	KED
|	**Ni -5**	62	21.7	17.5	**-0.0439**	0.011	26.0	ug/L	14	KED
|	**As-2**	75	10.7	37.9	**0.0094**	0.009	92.0	ug/L	8	KED
	Y-1	89	152429.6	1.1				ug/L	151628	KED
	Rh-1	103	368348.3	0.9				ug/L	379534	KED
| >	**Ge**	72	1261715.4	0.5				ug/L	1316182	Standard
| >	**In**	115	963757.9	1.2				ug/L	994105	Standard
| >	**Ge-1**	72	67767.0	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		95.862
| >	In	115		96.947
| >	Ge-1	72		99.970

Quantitative Analysis - Summary Report

Sample ID: MB0826D1 2X

Sample Date/Time: Monday, August 26, 2024 08:29:47
Report Date/Time: Monday, August 26, 2024 08:31:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\MB0826D1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5290.2	4.4	**0.0248**	0.010	40.9	ug/L	-9343	Standard
|	**Ni -1**	60	915.4	7.2	**-0.0102**	0.006	61.0	ug/L	582	Standard
|	**Ni -2**	62	2965.0	1.3	**-0.0179**	0.034	190.4	ug/L	3055	Standard
|	**As**	75	23444.2	0.5	**-0.2415**	0.012	4.8	ug/L	25703	Standard
|	**As-1**	75	1144.8	7.2	**-0.0168**	0.011	67.9	ug/L	1359	Standard
|	**Se**	77	245.7	4.4	**-0.0344**	0.023	65.8	ug/L	259	Standard
|	**Se -1**	78	23596.1	0.3	**-1.1111**	0.041	3.7	ug/L	25820	Standard
|	**Br**	79	649.3	2.8				ug/L	715	Standard
|	**Se -2**	82	543.7	6.4	**-0.1205**	0.056	46.9	ug/L	617	Standard
	Kr	83	668.7	4.0				ug/L	646	Standard
	Y	89	1749067.8	0.4				ug/L	2084970	Standard
|	**Rh**	103	1282469.6	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	292.6	2.6	**-0.0460**	0.001	2.6	ug/L	229	KED
|	**Ni -4**	60	126.0	4.2	**-0.0721**	0.002	3.1	ug/L	94	KED
|	**Ni -5**	62	17.7	11.8	**-0.0555**	0.006	10.7	ug/L	14	KED
|	**As-2**	75	8.3	54.1	**0.0044**	0.010	223.2	ug/L	8	KED
	Y-1	89	153900.9	0.2				ug/L	151628	KED
	Rh-1	103	370690.1	0.1				ug/L	379534	KED
|>	**Ge**	72	1257903.2	0.5				ug/L	1316182	Standard
|>	**In**	115	952812.3	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	67567.4	1.4				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		95.572
|>	In	115		95.846
|>	Ge-1	72		99.676

Quantitative Analysis - Summary Report

Sample ID: SB0826D1 2X

Sample Date/Time: Monday, August 26, 2024 08:37:20
Report Date/Time: Monday, August 26, 2024 08:39:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\SB0826D1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	960184.6	0.8	**40.0308**	0.391	1.0	ug/L	-9343	Standard
|	**Ni -1**	60	388507.6	0.1	**39.0682**	0.150	0.4	ug/L	582	Standard
|	**Ni -2**	62	60530.0	0.3	**39.2811**	0.078	0.2	ug/L	3055	Standard
|	**As**	75	282478.9	0.5	**40.1764**	0.065	0.2	ug/L	25703	Standard
|	**As-1**	75	262386.3	0.7	**39.8287**	0.182	0.5	ug/L	1359	Standard
|	**Se**	77	17820.8	0.4	**40.3665**	0.044	0.1	ug/L	259	Standard
|	**Se -1**	78	79595.8	0.3	**39.4776**	0.315	0.8	ug/L	25820	Standard
|	**Br**	79	607.7	4.8				ug/L	715	Standard
|	**Se -2**	82	23465.9	0.8	**39.7989**	0.300	0.8	ug/L	617	Standard
	Kr	83	720.7	3.2				ug/L	646	Standard
	Y	89	1975437.1	0.3				ug/L	2084970	Standard
|	**Rh**	103	1136354.4	1.2				ug/L	1339953	Standard
|	**Ni -3**	58	187660.7	1.1	**38.4014**	0.643	1.7	ug/L	229	KED
|	**Ni -4**	60	82935.4	1.4	**38.6117**	0.760	2.0	ug/L	94	KED
|	**Ni -5**	62	12812.4	1.8	**38.3298**	0.692	1.8	ug/L	14	KED
|	**As-2**	75	17327.2	0.8	**38.8798**	0.163	0.4	ug/L	8	KED
	Y-1	89	150394.2	1.1				ug/L	151628	KED
	Rh-1	103	328383.3	1.1				ug/L	379534	KED
|>	**Ge**	72	1225259.1	0.3				ug/L	1316182	Standard
|>	**In**	115	925385.3	1.7				ug/L	994105	Standard
|>	**Ge-1**	72	66250.3	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		93.092
|>	In	115		93.087
|>	Ge-1	72		97.733

Quantitative Analysis - Summary Report

Sample ID: 08-224-01d 10X

Sample Date/Time: Monday, August 26, 2024 08:41:29
Report Date/Time: Monday, August 26, 2024 08:43:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-01d 10X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	7947.7	0.4	**0.6239**	0.003	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	12239.9	1.6	**1.3440**	0.012	0.9	ug/L	582	Standard
|	**Ni -2**	62	411794.7	2.7	**326.6709**	12.658	3.9	ug/L	3055	Standard
|	**As**	75	30448.9	0.9	**1.7509**	0.012	0.7	ug/L	25703	Standard
|	**As-1**	75	11764.3	1.0	**1.9129**	0.011	0.6	ug/L	1359	Standard
|	**Se**	77	23449.0	7.4	**62.4484**	3.987	6.4	ug/L	259	Standard
|	**Se -1**	78	31263.2	1.0	**8.6430**	0.257	3.0	ug/L	25820	Standard
|	**Br**	79	3651852.4	1.2				ug/L	715	Standard
|	**Se -2**	82	4981.9	1.8	**9.1060**	0.216	2.4	ug/L	617	Standard
	Kr	83	3732.5	2.4				ug/L	646	Standard
	Y	89	1710372.6	0.5				ug/L	2084970	Standard
|	**Rh**	103	1085431.1	1.0				ug/L	1339953	Standard
|	**Ni -3**	58	2817.5	0.3	**0.5180**	0.021	4.0	ug/L	229	KED
|	**Ni -4**	60	1237.4	0.9	**0.4928**	0.015	2.9	ug/L	94	KED
|	**Ni -5**	62	251.0	3.5	**0.7033**	0.008	1.1	ug/L	14	KED
|	**As-2**	75	248.0	6.6	**0.5853**	0.031	5.3	ug/L	8	KED
	Y-1	89	135059.6	2.2				ug/L	151628	KED
	Rh-1	103	330762.4	1.7				ug/L	379534	KED
|>	**Ge**	72	1046958.3	1.1				ug/L	1316182	Standard
|>	**In**	115	778511.3	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	61528.0	3.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		79.545
|>	In	115		78.313
|>	Ge-1	72		90.766

Quantitative Analysis - Summary Report

Sample ID: 08-224-02d 10X

Sample Date/Time: Monday, August 26, 2024 08:45:38
Report Date/Time: Monday, August 26, 2024 08:47:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-02d 10X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4955.6	1.9	**0.4888**	0.006	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	14247.8	1.5	**1.6514**	0.021	1.3	ug/L	582	Standard
|	**Ni -2**	62	826129.6	3.3	**684.8733**	25.062	3.7	ug/L	3055	Standard
|	**As**	75	40505.6	4.6	**3.8938**	0.395	10.1	ug/L	25703	Standard
|	**As-1**	75	17124.3	8.8	**2.9989**	0.299	10.0	ug/L	1359	Standard
|	**Se**	77	65530.7	3.2	**183.0476**	6.269	3.4	ug/L	259	Standard
|	**Se -1**	78	45554.2	3.3	**22.2384**	1.382	6.2	ug/L	25820	Standard
|	**Br**	79	6609892.1	1.2				ug/L	715	Standard
|	**Se -2**	82	8767.7	1.1	**17.5666**	0.314	1.8	ug/L	617	Standard
	Kr	83	13256.5	2.5				ug/L	646	Standard
	Y	89	1676011.9	0.6				ug/L	2084970	Standard
|	**Rh**	103	1048538.3	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	1380.2	2.0	**0.1986**	0.007	3.8	ug/L	229	KED
|	**Ni -4**	60	619.0	2.7	**0.1801**	0.008	4.6	ug/L	94	KED
|	**Ni -5**	62	247.7	2.7	**0.6889**	0.026	3.8	ug/L	14	KED
|	**As-2**	75	144.3	10.6	**0.3332**	0.036	10.9	ug/L	8	KED
	Y-1	89	134425.5	0.3				ug/L	151628	KED
	Rh-1	103	322627.5	0.4				ug/L	379534	KED
|>	**Ge**	72	1004813.0	0.6				ug/L	1316182	Standard
|>	**In**	115	762493.8	0.4				ug/L	994105	Standard
|>	**Ge-1**	72	61817.8	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.343
|>	In	115		76.702
|>	Ge-1	72		91.194

Quantitative Analysis - Summary Report

Sample ID: 08-224-03d 10X

Sample Date/Time: Monday, August 26, 2024 08:49:47
Report Date/Time: Monday, August 26, 2024 08:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-03d 10X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	3432.3	9.0	**0.4090**	0.016	3.8	ug/L	-9343	Standard
|	**Ni -1**	60	13239.8	0.6	**1.5010**	0.012	0.8	ug/L	582	Standard
|	**Ni -2**	62	1401436.3	6.5	**1144.1641**	76.367	6.7	ug/L	3055	Standard
|	**As**	75	53447.6	4.3	**6.1842**	0.453	7.3	ug/L	25703	Standard
|	**As-1**	75	15884.1	10.1	**2.7193**	0.297	10.9	ug/L	1359	Standard
|	**Se**	77	68448.9	1.1	**188.0873**	2.502	1.3	ug/L	259	Standard
|	**Se -1**	78	59443.5	3.9	**33.5333**	2.084	6.2	ug/L	25820	Standard
|	**Br**	79	6539691.5	1.7				ug/L	715	Standard
|	**Se -2**	82	8673.3	2.1	**17.0654**	0.424	2.5	ug/L	617	Standard
	Kr	83	16175.8	3.3				ug/L	646	Standard
	Y	89	1718704.7	0.4				ug/L	2084970	Standard
|	**Rh**	103	1077500.8	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	1025.7	4.4	**0.1193**	0.007	5.8	ug/L	229	KED
|	**Ni -4**	60	482.0	2.5	**0.1101**	0.004	3.7	ug/L	94	KED
|	**Ni -5**	62	372.7	5.3	**1.0839**	0.060	5.5	ug/L	14	KED
|	**As-2**	75	136.3	8.9	**0.3122**	0.029	9.4	ug/L	8	KED
	Y-1	89	134605.6	1.7				ug/L	151628	KED
	Rh-1	103	322641.6	1.5				ug/L	379534	KED
| >	**Ge**	72	1021485.3	0.3				ug/L	1316182	Standard
| >	**In**	115	785329.5	1.1				ug/L	994105	Standard
| >	**Ge-1**	72	62169.0	1.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		77.610
| >	In	115		78.999
| >	Ge-1	72		91.712

Quantitative Analysis - Summary Report

Sample ID: 08-224-04d 10X

Sample Date/Time: Monday, August 26, 2024 08:53:56
Report Date/Time: Monday, August 26, 2024 08:55:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04d 10X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	12797.7	19.0	**0.8037**	0.101	12.6	ug/L	-9343	Standard
|	**Ni -1**	60	4364.7	2.7	**0.3695**	0.008	2.2	ug/L	582	Standard
|	**Ni -2**	62	415976.3	10.2	**300.4940**	27.640	9.2	ug/L	3055	Standard
|	**As**	75	51342.2	2.4	**4.7329**	0.143	3.0	ug/L	25703	Standard
|	**As-1**	75	12982.3	1.9	**1.9266**	0.057	2.9	ug/L	1359	Standard
|	**Se**	77	11031.6	8.8	**26.4562**	2.112	8.0	ug/L	259	Standard
|	**Se -1**	78	41853.6	2.7	**14.4320**	0.587	4.1	ug/L	25820	Standard
|	**Br**	79	288286.8	0.2				ug/L	715	Standard
|	**Se -2**	82	1432.7	2.0	**1.6197**	0.076	4.7	ug/L	617	Standard
	Kr	83	1842.5	8.2				ug/L	646	Standard
	Y	89	1846170.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	1221532.5	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	3379.0	0.2	**0.6563**	0.005	0.8	ug/L	229	KED
|	**Ni -4**	60	705.7	3.6	**0.2321**	0.013	5.7	ug/L	94	KED
|	**Ni -5**	62	169.0	6.0	**0.4493**	0.036	8.0	ug/L	14	KED
|	**As-2**	75	760.4	3.5	**1.8596**	0.054	2.9	ug/L	8	KED
	Y-1	89	136164.9	0.7				ug/L	151628	KED
	Rh-1	103	345313.8	0.9				ug/L	379534	KED
|>	**Ge**	72	1148066.8	1.1				ug/L	1316182	Standard
|>	**In**	115	849077.0	1.8				ug/L	994105	Standard
|>	**Ge-1**	72	60344.5	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		87.227
|>	In	115		85.411
|>	Ge-1	72		89.021

Quantitative Analysis - Summary Report

Sample ID: 08-224-05d 10X

Sample Date/Time: Monday, August 26, 2024 08:58:05
Report Date/Time: Monday, August 26, 2024 08:59:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-05d 10X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	3738.0	32.6	**0.4215**	0.058	13.7	ug/L	-9343	Standard
|	**Ni -1**	60	13731.9	1.9	**1.5399**	0.018	1.2	ug/L	582	Standard
|	**Ni -2**	62	1448317.5	10.9	**1166.9089**	113.493	9.7	ug/L	3055	Standard
|	**As**	75	68035.5	4.0	**8.7479**	0.363	4.2	ug/L	25703	Standard
|	**As-1**	75	15708.4	10.1	**2.6537**	0.320	12.0	ug/L	1359	Standard
|	**Se**	77	68769.5	2.1	**186.6124**	1.842	1.0	ug/L	259	Standard
|	**Se -1**	78	74727.6	5.0	**45.8621**	2.437	5.3	ug/L	25820	Standard
|	**Br**	79	6737455.1	0.7				ug/L	715	Standard
|	**Se -2**	82	8900.1	1.8	**17.3127**	0.540	3.1	ug/L	617	Standard
	Kr	83	18123.3	11.2				ug/L	646	Standard
	Y	89	1757119.9	0.5				ug/L	2084970	Standard
|	**Rh**	103	1096473.9	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	888.3	0.5	**0.0849**	0.001	1.1	ug/L	229	KED
|	**Ni -4**	60	399.3	1.9	**0.0644**	0.004	6.1	ug/L	94	KED
|	**Ni -5**	62	399.0	3.1	**1.1389**	0.038	3.3	ug/L	14	KED
|	**As-2**	75	123.0	7.8	**0.2735**	0.022	8.1	ug/L	8	KED
	Y-1	89	137612.0	0.5				ug/L	151628	KED
	Rh-1	103	326483.7	0.6				ug/L	379534	KED
|>	**Ge**	72	1034265.5	1.2				ug/L	1316182	Standard
|>	**In**	115	791236.9	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	63627.4	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.581
|>	In	115		79.593
|>	Ge-1	72		93.864

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dD 10X

Sample Date/Time: Monday, August 26, 2024 09:02:16
Report Date/Time: Monday, August 26, 2024 09:04:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dD 10X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	14080.6	6.0	**0.8762**	0.030	3.4	ug/L	-9343	Standard
|	**Ni -1**	60	4736.8	3.9	**0.4219**	0.014	3.4	ug/L	582	Standard
|	**Ni -2**	62	740049.3	6.8	**549.4461**	31.008	5.6	ug/L	3055	Standard
|	**As**	75	63119.4	2.6	**6.9465**	0.204	2.9	ug/L	25703	Standard
|	**As-1**	75	14051.5	3.6	**2.1570**	0.105	4.9	ug/L	1359	Standard
|	**Se**	77	11384.2	9.8	**27.9996**	2.477	8.8	ug/L	259	Standard
|	**Se -1**	78	53053.7	3.4	**23.9941**	0.991	4.1	ug/L	25820	Standard
|	**Br**	79	319631.1	1.6				ug/L	715	Standard
|	**Se -2**	82	1642.4	5.9	**2.0827**	0.158	7.6	ug/L	617	Standard
	Kr	83	3227.0	12.2				ug/L	646	Standard
	Y	89	1806168.2	0.1				ug/L	2084970	Standard
|	**Rh**	103	1192546.2	0.2				ug/L	1339953	Standard
|	**Ni -3**	58	3617.6	1.4	**0.7165**	0.012	1.7	ug/L	229	KED
|	**Ni -4**	60	763.4	3.0	**0.2647**	0.009	3.6	ug/L	94	KED
|	**Ni -5**	62	200.3	4.3	**0.5577**	0.032	5.8	ug/L	14	KED
|	**As-2**	75	760.0	3.3	**1.8736**	0.049	2.6	ug/L	8	KED
	Y-1	89	136270.2	0.9				ug/L	151628	KED
	Rh-1	103	340305.6	0.5				ug/L	379534	KED
|>	**Ge**	72	1120596.8	1.3				ug/L	1316182	Standard
|>	**In**	115	829329.3	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	59870.9	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		85.140
|>	In	115		83.425
|>	Ge-1	72		88.322

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dL 50X

Sample Date/Time: Monday, August 26, 2024 09:06:25
Report Date/Time: Monday, August 26, 2024 09:08:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dL 50X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3031.8	6.8	**0.0730**	0.012	16.0	ug/L	-9343	Standard
|	**Ni -1**	60	1220.1	2.6	**0.0617**	0.004	7.2	ug/L	582	Standard
|	**Ni -2**	62	319370.4	2.4	**284.5287**	7.290	2.6	ug/L	3055	Standard
|	**As**	75	38248.0	0.6	**4.0380**	0.037	0.9	ug/L	25703	Standard
|	**As-1**	75	3796.9	4.0	**0.5751**	0.028	4.9	ug/L	1359	Standard
|	**Se**	77	4107.3	5.3	**11.8356**	0.679	5.7	ug/L	259	Standard
|	**Se -1**	78	36827.7	0.6	**17.1536**	0.258	1.5	ug/L	25820	Standard
|	**Br**	79	89703.1	0.9				ug/L	715	Standard
|	**Se -2**	82	987.0	3.3	**1.2184**	0.078	6.4	ug/L	617	Standard
	Kr	83	1099.0	2.8				ug/L	646	Standard
	Y	89	1470557.4	0.2				ug/L	2084970	Standard
|	**Rh**	103	1013660.9	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	729.2	7.5	**0.0938**	0.015	16.3	ug/L	229	KED
|	**Ni -4**	60	165.3	6.1	**-0.0273**	0.006	22.1	ug/L	94	KED
|	**Ni -5**	62	85.0	13.9	**0.2311**	0.047	20.2	ug/L	14	KED
|	**As-2**	75	153.3	7.5	**0.4430**	0.033	7.5	ug/L	8	KED
	Y-1	89	112173.7	0.4				ug/L	151628	KED
	Rh-1	103	286610.2	0.2				ug/L	379534	KED
| >	**Ge**	72	931170.3	0.3				ug/L	1316182	Standard
| >	**In**	115	689809.5	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	49899.7	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		70.748
| >	In	115		69.390
| >	Ge-1	72		73.612

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dMS 10X

Sample Date/Time: Monday, August 26, 2024 09:10:35
Report Date/Time: Monday, August 26, 2024 09:12:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dMS 10X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	800688.3	1.1	**39.9009**	0.174	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	320031.8	0.9	**38.4661**	0.037	0.1	ug/L	582	Standard
|	**Ni -2**	62	307271.3	2.1	**248.4119**	3.966	1.6	ug/L	3055	Standard
|	**As**	75	270423.8	0.1	**46.5240**	0.358	0.8	ug/L	25703	Standard
|	**As-1**	75	241177.6	0.2	**43.7803**	0.330	0.8	ug/L	1359	Standard
|	**Se**	77	19587.1	0.5	**53.2187**	0.482	0.9	ug/L	259	Standard
|	**Se -1**	78	84442.8	0.9	**54.7827**	1.142	2.1	ug/L	25820	Standard
|	**Br**	79	263407.6	0.4				ug/L	715	Standard
|	**Se -2**	82	21783.3	1.1	**44.2801**	0.877	2.0	ug/L	617	Standard
	Kr	83	902.0	4.3				ug/L	646	Standard
	Y	89	1665185.6	0.3				ug/L	2084970	Standard
|	**Rh**	103	1110073.4	0.9				ug/L	1339953	Standard
|	**Ni -3**	58	155944.5	1.1	**38.1833**	0.320	0.8	ug/L	229	KED
|	**Ni -4**	60	68593.0	0.9	**38.2101**	0.236	0.6	ug/L	94	KED
|	**Ni -5**	62	10529.2	1.3	**37.6911**	0.388	1.0	ug/L	14	KED
|	**As-2**	75	15776.7	1.3	**42.3636**	0.436	1.0	ug/L	8	KED
	Y-1	89	127575.8	0.8				ug/L	151628	KED
	Rh-1	103	316419.0	0.9				ug/L	379534	KED
| >	**Ge**	72	1025046.6	0.8				ug/L	1316182	Standard
| >	**In**	115	764691.4	0.4				ug/L	994105	Standard
| >	**Ge-1**	72	55362.1	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		77.880
| >	In	115		76.923
| >	Ge-1	72		81.670

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 09:14:46
Report Date/Time: Monday, August 26, 2024 09:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	896159.5	0.6	**39.2929**	0.307	0.8	ug/L	-9343	Standard
|	**Ni -1**	60	368593.3	1.1	**38.9773**	0.477	1.2	ug/L	582	Standard
|	**Ni -2**	62	229897.6	2.7	**162.8264**	3.830	2.4	ug/L	3055	Standard
|	**As**	75	275919.8	0.5	**41.3706**	0.142	0.3	ug/L	25703	Standard
|	**As-1**	75	250110.8	0.2	**39.9242**	0.056	0.1	ug/L	1359	Standard
|	**Se**	77	18536.4	0.9	**44.2078**	0.376	0.9	ug/L	259	Standard
|	**Se -1**	78	83501.3	1.0	**45.3644**	0.548	1.2	ug/L	25820	Standard
|	**Br**	79	24067.3	3.1				ug/L	715	Standard
|	**Se -2**	82	22761.1	0.4	**40.6161**	0.320	0.8	ug/L	617	Standard
	Kr	83	697.4	3.4				ug/L	646	Standard
	Y	89	1883808.6	1.6				ug/L	2084970	Standard
|	**Rh**	103	1098168.9	0.2				ug/L	1339953	Standard
|	**Ni -3**	58	173651.7	0.8	**37.5663**	0.478	1.3	ug/L	229	KED
|	**Ni -4**	60	76546.5	0.4	**37.6731**	0.357	0.9	ug/L	94	KED
|	**Ni -5**	62	11835.2	0.2	**37.4318**	0.269	0.7	ug/L	14	KED
|	**As-2**	75	16321.7	0.9	**38.7204**	0.215	0.6	ug/L	8	KED
	Y-1	89	145166.9	0.4				ug/L	151628	KED
	Rh-1	103	307950.1	0.2				ug/L	379534	KED
| >	**Ge**	72	1165166.3	0.4				ug/L	1316182	Standard
| >	**In**	115	893945.9	0.2				ug/L	994105	Standard
| >	**Ge-1**	72	62661.8	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	98.232	
|	Ni -1	60	97.443	
|	Ni -2	62	407.066	
|	As	75	103.426	
|	As-1	75	99.810	
|	Se	77	110.519	
|	Se -1	78	113.411	
|	Br	79		
|	Se -2	82	101.540	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	93.916	
|	Ni -4	60	94.183	
|	Ni -5	62	93.580	
|	As-2	75	96.801	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		88.526
| >	In	115		89.925
| >	Ge-1	72		92.439

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 09:18:56
Report Date/Time: Monday, August 26, 2024 09:20:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	410926.9	0.3	**19.3693**	0.060	0.3	ug/L	-9343	Standard
|	**Ni -1**	60	171461.2	0.7	**19.3190**	0.129	0.7	ug/L	582	Standard
|	**Ni -2**	62	163981.2	1.2	**123.6065**	1.507	1.2	ug/L	3055	Standard
|	**As**	75	142415.9	0.3	**21.1088**	0.076	0.4	ug/L	25703	Standard
|	**As-1**	75	118341.3	0.8	**20.0881**	0.172	0.9	ug/L	1359	Standard
|	**Se**	77	9225.0	0.7	**23.2297**	0.151	0.6	ug/L	259	Standard
|	**Se -1**	78	51723.5	0.2	**24.0696**	0.057	0.2	ug/L	25820	Standard
|	**Br**	79	17738.3	1.1				ug/L	715	Standard
|	**Se -2**	82	10925.5	2.0	**20.3195**	0.422	2.1	ug/L	617	Standard
	Kr	83	611.3	2.9				ug/L	646	Standard
	Y	89	1780967.9	0.5				ug/L	2084970	Standard
|	**Rh**	103	991912.9	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	82202.3	0.6	**18.4671**	0.105	0.6	ug/L	229	KED
|	**Ni -4**	60	36542.0	0.9	**18.6653**	0.190	1.0	ug/L	94	KED
|	**Ni -5**	62	5601.1	0.8	**18.3955**	0.182	1.0	ug/L	14	KED
|	**As-2**	75	7931.2	0.2	**19.5902**	0.175	0.9	ug/L	8	KED
	Y-1	89	140017.2	0.7				ug/L	151628	KED
	Rh-1	103	285903.4	1.0				ug/L	379534	KED
| >	**Ge**	72	1090677.6	0.0				ug/L	1316182	Standard
| >	**In**	115	843059.4	0.5				ug/L	994105	Standard
| >	**Ge-1**	72	60166.1	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	96.847	
|	Ni -1	60	96.595	
|	Ni -2	62	618.033	
|	As	75	105.544	
|	As-1	75	100.440	
|	Se	77	116.149	
|	Se -1	78	120.348	
|	Br	79		
|	Se -2	82	101.597	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	92.335	
|	Ni -4	60	93.327	
|	Ni -5	62	91.977	
|	As-2	75	97.951	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		82.867
| >	In	115		84.806
| >	Ge-1	72		88.757

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 09:23:07
Report Date/Time: Monday, August 26, 2024 09:24:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-6301.4	0.9	**-0.0529**	0.003	5.2	ug/L	-9343	Standard
|	**Ni -1**	60	357.7	5.3	**-0.0599**	0.002	3.4	ug/L	582	Standard
|	**Ni -2**	62	117083.5	0.5	**87.0587**	0.725	0.8	ug/L	3055	Standard
|	**As**	75	24362.9	0.8	**0.4341**	0.020	4.6	ug/L	25703	Standard
|	**As-1**	75	1083.4	10.9	**-0.0025**	0.020	784.1	ug/L	1359	Standard
|	**Se**	77	896.0	4.6	**1.7128**	0.113	6.6	ug/L	259	Standard
|	**Se -1**	78	24713.0	0.4	**2.1750**	0.085	3.9	ug/L	25820	Standard
|	**Br**	79	14616.8	1.6				ug/L	715	Standard
|	**Se -2**	82	599.0	4.9	**0.1210**	0.060	50.0	ug/L	617	Standard
	Kr	83	559.7	5.3				ug/L	646	Standard
	Y	89	1790044.6	0.6				ug/L	2084970	Standard
|	**Rh**	103	1145569.9	0.9				ug/L	1339953	Standard
|	**Ni -3**	58	143.7	12.3	**-0.0731**	0.004	5.5	ug/L	229	KED
|	**Ni -4**	60	73.3	8.9	**-0.0929**	0.003	3.5	ug/L	94	KED
|	**Ni -5**	62	28.7	2.0	**-0.0147**	0.002	13.0	ug/L	14	KED
|	**As-2**	75	6.7	17.3	**0.0022**	0.003	129.8	ug/L	8	KED
	Y-1	89	141780.1	0.6				ug/L	151628	KED
	Rh-1	103	327871.5	0.5				ug/L	379534	KED
|>	**Ge**	72	1098402.5	0.4				ug/L	1316182	Standard
|>	**In**	115	852570.7	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	61408.4	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		83.454
|>	In	115		85.763
|>	Ge-1	72		90.590

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dMSD 10X

Sample Date/Time: Monday, August 26, 2024 09:27:34
Report Date/Time: Monday, August 26, 2024 09:29:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dMSD 10X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	742401.8	1.4	**38.2907**	0.579	1.5	ug/L	-9343	Standard
|	**Ni -1**	60	302339.0	0.8	**37.5982**	0.296	0.8	ug/L	582	Standard
|	**Ni -2**	62	178603.9	0.7	**148.6140**	0.764	0.5	ug/L	3055	Standard
|	**As**	75	249947.8	0.4	**44.3257**	0.093	0.2	ug/L	25703	Standard
|	**As-1**	75	227882.6	0.3	**42.7963**	0.018	0.0	ug/L	1359	Standard
|	**Se**	77	16813.9	0.7	**47.2024**	0.423	0.9	ug/L	259	Standard
|	**Se -1**	78	72916.3	0.6	**47.0668**	0.289	0.6	ug/L	25820	Standard
|	**Br**	79	205780.8	0.4				ug/L	715	Standard
|	**Se -2**	82	20061.1	1.1	**42.1407**	0.483	1.1	ug/L	617	Standard
	Kr	83	607.3	1.4				ug/L	646	Standard
	Y	89	1603380.9	0.9				ug/L	2084970	Standard
|	**Rh**	103	1085030.4	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	142541.5	0.9	**35.8664**	0.350	1.0	ug/L	229	KED
|	**Ni -4**	60	62791.7	0.7	**35.9444**	0.376	1.0	ug/L	94	KED
|	**Ni -5**	62	9771.7	0.6	**35.9500**	0.531	1.5	ug/L	14	KED
|	**As-2**	75	14930.1	0.2	**41.2099**	0.756	1.8	ug/L	8	KED
	Y-1	89	124507.2	0.7				ug/L	151628	KED
	Rh-1	103	304560.1	1.0				ug/L	379534	KED
|>	**Ge**	72	990674.9	0.2				ug/L	1316182	Standard
|>	**In**	115	748130.0	0.7				ug/L	994105	Standard
|>	**Ge-1**	72	53870.1	1.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		75.269
|>	In	115		75.257
|>	Ge-1	72		79.469

Quantitative Analysis - Summary Report

Sample ID: MB0826WM1 2X

Sample Date/Time: Monday, August 26, 2024 09:31:43
Report Date/Time: Monday, August 26, 2024 09:33:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\MB0826WM1 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-7077.4	3.2	**-0.1179**	0.011	9.5	ug/L	-9343	Standard
|	**Ni -1**	60	240.3	7.9	**-0.0707**	0.002	3.4	ug/L	582	Standard
|	**Ni -2**	62	104079.4	0.9	**84.2231**	1.073	1.3	ug/L	3055	Standard
|	**As**	75	23763.4	0.4	**0.6978**	0.006	0.8	ug/L	25703	Standard
|	**As-1**	75	959.8	15.9	**-0.0089**	0.028	317.1	ug/L	1359	Standard
|	**Se**	77	866.0	5.4	**1.8337**	0.138	7.5	ug/L	259	Standard
|	**Se -1**	78	24085.6	0.4	**3.3896**	0.039	1.2	ug/L	25820	Standard
|	**Br**	79	12795.1	1.5				ug/L	715	Standard
|	**Se -2**	82	538.7	5.7	**0.0970**	0.066	68.4	ug/L	617	Standard
	Kr	83	550.3	4.7				ug/L	646	Standard
	Y	89	1630543.3	0.2				ug/L	2084970	Standard
|	**Rh**	103	1144781.7	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	91.8	8.8	**-0.0827**	0.002	2.1	ug/L	229	KED
|	**Ni -4**	60	31.0	11.2	**-0.1127**	0.002	1.9	ug/L	94	KED
|	**Ni -5**	62	30.7	13.2	**0.0010**	0.015	1567.5	ug/L	14	KED
|	**As-2**	75	5.7	27.0	**0.0010**	0.004	388.5	ug/L	8	KED
	Y-1	89	128899.6	0.4				ug/L	151628	KED
	Rh-1	103	325873.6	0.5				ug/L	379534	KED
| >	**Ge**	72	1008533.4	0.4				ug/L	1316182	Standard
| >	**In**	115	777013.6	0.1				ug/L	994105	Standard
| >	**Ge-1**	72	56259.6	1.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		76.626
| >	In	115		78.162
| >	Ge-1	72		82.994

Quantitative Analysis - Summary Report

Sample ID: SB0826WM1 2X

Sample Date/Time: Monday, August 26, 2024 09:43:42
Report Date/Time: Monday, August 26, 2024 09:45:30
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\SB0826WM1 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1156047.6	0.6	**51.8836**	0.645	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	468933.9	0.2	**50.8618**	0.352	0.7	ug/L	582	Standard
|	**Ni -2**	62	290965.4	2.8	**211.8696**	6.992	3.3	ug/L	3055	Standard
|	**As**	75	345244.9	0.5	**54.1359**	0.226	0.4	ug/L	25703	Standard
|	**As-1**	75	318008.4	0.6	**52.0912**	0.083	0.2	ug/L	1359	Standard
|	**Se**	77	27714.5	0.5	**68.0669**	0.599	0.9	ug/L	259	Standard
|	**Se -1**	78	101200.5	0.4	**60.6253**	0.937	1.5	ug/L	25820	Standard
|	**Br**	79	18840.4	3.7				ug/L	715	Standard
|	**Se -2**	82	29172.1	0.8	**53.6887**	0.614	1.1	ug/L	617	Standard
	Kr	83	1522.7	4.8				ug/L	646	Standard
	Y	89	1810568.6	1.5				ug/L	2084970	Standard
|	**Rh**	103	1246429.4	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	220864.1	1.6	**48.9392**	0.529	1.1	ug/L	229	KED
|	**Ni -4**	60	97477.1	1.3	**49.1470**	0.338	0.7	ug/L	94	KED
|	**Ni -5**	62	14934.1	0.6	**48.3820**	0.185	0.4	ug/L	14	KED
|	**As-2**	75	20612.2	0.7	**50.0614**	0.107	0.2	ug/L	8	KED
	Y-1	89	137082.0	1.9				ug/L	151628	KED
	Rh-1	103	351396.5	1.8				ug/L	379534	KED
| >	**Ge**	72	1136686.8	0.8				ug/L	1316182	Standard
| >	**In**	115	839145.9	0.9				ug/L	994105	Standard
| >	**Ge-1**	72	61211.9	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		86.362
| >	In	115		84.412
| >	Ge-1	72		90.300

Quantitative Analysis - Summary Report

Sample ID: 08-013-05a 2X

Sample Date/Time: Monday, August 26, 2024 09:47:50
Report Date/Time: Monday, August 26, 2024 09:49:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05a 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3304.9	4.7	**0.0842**	0.007	8.5	ug/L	-9343	Standard
|	**Ni -1**	60	3053.3	1.8	**0.2464**	0.004	1.7	ug/L	582	Standard
|	**Ni -2**	62	171552.3	3.3	**129.7117**	5.085	3.9	ug/L	3055	Standard
|	**As**	75	31959.1	1.6	**1.8052**	0.123	6.8	ug/L	25703	Standard
|	**As-1**	75	4968.3	6.1	**0.6665**	0.057	8.6	ug/L	1359	Standard
|	**Se**	77	4318.0	3.3	**10.5884**	0.428	4.0	ug/L	259	Standard
|	**Se -1**	78	28576.2	0.8	**5.4777**	0.304	5.5	ug/L	25820	Standard
|	**Br**	79	29168.7	0.5				ug/L	715	Standard
|	**Se -2**	82	664.3	0.8	**0.2597**	0.012	4.6	ug/L	617	Standard
	Kr	83	995.7	0.7				ug/L	646	Standard
	Y	89	1745999.3	0.9				ug/L	2084970	Standard
|	**Rh**	103	1183030.0	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	806.6	3.1	**0.0791**	0.004	5.1	ug/L	229	KED
|	**Ni -4**	60	336.3	3.5	**0.0449**	0.008	17.5	ug/L	94	KED
|	**Ni -5**	62	71.3	18.6	**0.1308**	0.046	35.3	ug/L	14	KED
|	**As-2**	75	288.3	6.5	**0.7054**	0.040	5.7	ug/L	8	KED
	Y-1	89	134961.2	0.9				ug/L	151628	KED
	Rh-1	103	336969.0	1.8				ug/L	379534	KED
|>	**Ge**	72	1088303.2	0.6				ug/L	1316182	Standard
|>	**In**	115	819333.5	0.7				ug/L	994105	Standard
|>	**Ge-1**	72	59587.0	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.686
|>	In	115		82.419
|>	Ge-1	72		87.903

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aD 2X

Sample Date/Time: Monday, August 26, 2024 09:51:59
Report Date/Time: Monday, August 26, 2024 09:53:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aD 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3401.6	3.0	**0.0775**	0.004	5.1	ug/L	-9343	Standard
|	**Ni -1**	60	2992.6	1.6	**0.2442**	0.006	2.4	ug/L	582	Standard
|	**Ni -2**	62	124406.1	1.7	**94.8135**	2.055	2.2	ug/L	3055	Standard
|	**As**	75	29893.3	0.9	**1.5141**	0.027	1.8	ug/L	25703	Standard
|	**As-1**	75	4973.3	5.9	**0.6788**	0.050	7.4	ug/L	1359	Standard
|	**Se**	77	3012.7	1.0	**7.3166**	0.120	1.6	ug/L	259	Standard
|	**Se -1**	78	26462.5	0.7	**4.0620**	0.107	2.6	ug/L	25820	Standard
|	**Br**	79	26206.0	0.9				ug/L	715	Standard
|	**Se -2**	82	644.3	2.3	**0.2379**	0.036	15.2	ug/L	617	Standard
	Kr	83	813.4	8.2				ug/L	646	Standard
	Y	89	1724230.0	0.4				ug/L	2084970	Standard
|	**Rh**	103	1176177.8	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	745.1	5.3	**0.0670**	0.009	14.1	ug/L	229	KED
|	**Ni -4**	60	340.0	8.2	**0.0488**	0.015	29.8	ug/L	94	KED
|	**Ni -5**	62	71.7	2.1	**0.1343**	0.004	3.2	ug/L	14	KED
|	**As-2**	75	265.0	9.5	**0.6550**	0.066	10.1	ug/L	8	KED
	Y-1	89	134271.1	0.6				ug/L	151628	KED
	Rh-1	103	335134.1	0.1				ug/L	379534	KED
\>	**Ge**	72	1073647.4	0.6				ug/L	1316182	Standard
\>	**In**	115	815751.8	0.6				ug/L	994105	Standard
\>	**Ge-1**	72	58926.0	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
\>	Ge	72		81.573
\>	In	115		82.059
\>	Ge-1	72		86.928

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aL 10X

Sample Date/Time: Monday, August 26, 2024 09:56:08
Report Date/Time: Monday, August 26, 2024 09:57:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aL 10X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5885.8	2.5	**-0.0481**	0.004	8.0	ug/L	-9343	Standard
|	**Ni -1**	60	1073.0	2.3	**0.0269**	0.001	4.0	ug/L	582	Standard
|	**Ni -2**	62	95941.1	0.9	**74.8472**	0.441	0.6	ug/L	3055	Standard
|	**As**	75	25523.2	0.2	**0.8710**	0.061	7.0	ug/L	25703	Standard
|	**As-1**	75	2285.7	2.9	**0.2226**	0.006	2.7	ug/L	1359	Standard
|	**Se**	77	1889.8	1.8	**4.5167**	0.081	1.8	ug/L	259	Standard
|	**Se -1**	78	24866.6	0.5	**3.3543**	0.338	10.1	ug/L	25820	Standard
|	**Br**	79	13963.5	1.1				ug/L	715	Standard
|	**Se -2**	82	676.0	4.8	**0.3400**	0.068	20.0	ug/L	617	Standard
	Kr	83	694.0	3.3				ug/L	646	Standard
	Y	89	1659493.1	1.2				ug/L	2084970	Standard
|	**Rh**	103	1150197.6	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	321.9	4.8	**-0.0238**	0.003	14.0	ug/L	229	KED
|	**Ni -4**	60	135.7	13.5	**-0.0521**	0.009	18.1	ug/L	94	KED
|	**Ni -5**	62	40.7	12.4	**0.0422**	0.017	41.0	ug/L	14	KED
|	**As-2**	75	78.7	6.0	**0.2028**	0.011	5.2	ug/L	8	KED
	Y-1	89	123384.2	0.9				ug/L	151628	KED
	Rh-1	103	310065.9	1.4				ug/L	379534	KED
| >	**Ge**	72	1043144.2	1.5				ug/L	1316182	Standard
| >	**In**	115	794835.5	1.1				ug/L	994105	Standard
| >	**Ge-1**	72	53968.1	2.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		79.255
| >	In	115		79.955
| >	Ge-1	72		79.614

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aMS 2X

Sample Date/Time: Monday, August 26, 2024 10:00:17
Report Date/Time: Monday, August 26, 2024 10:02:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aMS 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1030780.3	0.7	**51.2079**	0.263	0.5	ug/L	-9343	Standard
|	**Ni -1**	60	421028.6	1.4	**50.5440**	0.262	0.5	ug/L	582	Standard
|	**Ni -2**	62	153902.3	0.7	**123.2194**	2.006	1.6	ug/L	3055	Standard
|	**As**	75	330428.6	0.3	**57.5791**	0.547	0.9	ug/L	25703	Standard
|	**As-1**	75	309917.2	0.3	**56.2104**	0.577	1.0	ug/L	1359	Standard
|	**Se**	77	22570.8	0.9	**61.3007**	0.340	0.6	ug/L	259	Standard
|	**Se -1**	78	92074.4	0.5	**61.1773**	0.560	0.9	ug/L	25820	Standard
|	**Br**	79	22782.5	0.5				ug/L	715	Standard
|	**Se -2**	82	28216.5	0.8	**57.5569**	0.812	1.4	ug/L	617	Standard
	Kr	83	639.0	1.5				ug/L	646	Standard
	Y	89	1641138.4	0.8				ug/L	2084970	Standard
|	**Rh**	103	1120749.6	0.3				ug/L	1339953	Standard
|	**Ni -3**	58	199194.0	0.7	**48.3682**	0.297	0.6	ug/L	229	KED
|	**Ni -4**	60	88173.6	0.6	**48.7172**	0.315	0.6	ug/L	94	KED
|	**Ni -5**	62	13507.7	0.9	**47.9529**	0.304	0.6	ug/L	14	KED
|	**As-2**	75	20129.5	1.0	**53.5743**	0.236	0.4	ug/L	8	KED
	Y-1	89	127521.7	0.9				ug/L	151628	KED
	Rh-1	103	317645.7	0.6				ug/L	379534	KED
| >	**Ge**	72	1026927.8	1.2				ug/L	1316182	Standard
| >	**In**	115	782362.5	0.6				ug/L	994105	Standard
| >	**Ge-1**	72	55861.3	1.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		78.023
| >	In	115		78.700
| >	Ge-1	72		82.407

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aMSD 2X

Sample Date/Time: Monday, August 26, 2024 10:04:26
Report Date/Time: Monday, August 26, 2024 10:06:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aMSD 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1028394.5	0.2	**50.8839**	0.339	0.7	ug/L	-9343	Standard
|	**Ni -1**	60	420384.0	1.3	**50.2620**	0.538	1.1	ug/L	582	Standard
|	**Ni -2**	62	140852.0	0.5	**112.1305**	1.169	1.0	ug/L	3055	Standard
|	**As**	75	331489.6	1.2	**57.5214**	0.359	0.6	ug/L	25703	Standard
|	**As-1**	75	311876.0	1.5	**56.3309**	0.456	0.8	ug/L	1359	Standard
|	**Se**	77	22462.0	1.0	**60.7505**	0.252	0.4	ug/L	259	Standard
|	**Se -1**	78	91826.2	0.9	**60.6455**	0.895	1.5	ug/L	25820	Standard
|	**Br**	79	21715.2	0.5				ug/L	715	Standard
|	**Se -2**	82	28471.0	1.7	**57.8411**	0.918	1.6	ug/L	617	Standard
	Kr	83	646.0	6.0				ug/L	646	Standard
	Y	89	1665060.7	1.1				ug/L	2084970	Standard
|	**Rh**	103	1136758.2	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	200188.4	1.7	**48.1554**	0.273	0.6	ug/L	229	KED
|	**Ni -4**	60	88771.0	2.2	**48.5876**	0.540	1.1	ug/L	94	KED
|	**Ni -5**	62	13639.5	3.0	**47.9646**	0.920	1.9	ug/L	14	KED
|	**As-2**	75	20596.5	2.4	**54.3051**	0.784	1.4	ug/L	8	KED
	Y-1	89	130426.1	1.4				ug/L	151628	KED
	Rh-1	103	322076.2	2.4				ug/L	379534	KED
|>	**Ge**	72	1031105.0	0.8				ug/L	1316182	Standard
|>	**In**	115	795221.7	1.5				ug/L	994105	Standard
|>	**Ge-1**	72	56382.4	1.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.341
|>	In	115		79.994
|>	Ge-1	72		83.176

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aPS 2X

Sample Date/Time: Monday, August 26, 2024 10:08:36
Report Date/Time: Monday, August 26, 2024 10:10:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aPS 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	744122.6	0.2	**37.9258**	0.158	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	307391.3	0.5	**37.7731**	0.171	0.5	ug/L	582	Standard
|	**Ni -2**	62	115377.4	0.7	**94.1493**	1.159	1.2	ug/L	3055	Standard
|	**As**	75	249390.3	0.6	**43.6482**	0.222	0.5	ug/L	25703	Standard
|	**As-1**	75	229187.2	0.7	**42.5287**	0.204	0.5	ug/L	1359	Standard
|	**Se**	77	16523.6	1.0	**45.8180**	0.279	0.6	ug/L	259	Standard
|	**Se -1**	78	73192.7	0.4	**46.5417**	0.241	0.5	ug/L	25820	Standard
|	**Br**	79	20975.7	1.0				ug/L	715	Standard
|	**Se -2**	82	20900.6	1.0	**43.4126**	0.212	0.5	ug/L	617	Standard
	Kr	83	666.7	2.0				ug/L	646	Standard
	Y	89	1606104.7	1.3				ug/L	2084970	Standard
|	**Rh**	103	1104484.1	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	145880.5	1.2	**35.9283**	0.568	1.6	ug/L	229	KED
|	**Ni -4**	60	64479.5	0.5	**36.1273**	0.317	0.9	ug/L	94	KED
|	**Ni -5**	62	9945.8	0.3	**35.8112**	0.222	0.6	ug/L	14	KED
|	**As-2**	75	14956.2	0.6	**40.3998**	0.097	0.2	ug/L	8	KED
	Y-1	89	125465.6	1.4				ug/L	151628	KED
	Rh-1	103	311608.6	1.4				ug/L	379534	KED
|>	**Ge**	72	1002591.5	0.7				ug/L	1316182	Standard
|>	**In**	115	772730.3	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	55034.1	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.174
|>	In	115		77.731
|>	Ge-1	72		81.187

Quantitative Analysis - Summary Report

Sample ID: 08-224-01c 10X

Sample Date/Time: Monday, August 26, 2024 10:26:27
Report Date/Time: Monday, August 26, 2024 10:28:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-01c 10X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4674.0	11.8	**0.4698**	0.025	5.3	ug/L	-9343	Standard
|	**Ni -1**	60	10312.7	4.6	**1.1428**	0.042	3.7	ug/L	582	Standard
|	**Ni -2**	62	462729.0	11.7	**374.9520**	39.925	10.6	ug/L	3055	Standard
|	**As**	75	35524.5	4.3	**2.8148**	0.210	7.5	ug/L	25703	Standard
|	**As-1**	75	10396.4	5.4	**1.7097**	0.113	6.6	ug/L	1359	Standard
|	**Se**	77	30413.4	5.6	**82.9590**	3.689	4.4	ug/L	259	Standard
|	**Se -1**	78	36740.3	4.7	**13.9007**	1.111	8.0	ug/L	25820	Standard
|	**Br**	79	2908180.5	0.8				ug/L	715	Standard
|	**Se -2**	82	4610.7	0.3	**8.5551**	0.142	1.7	ug/L	617	Standard
	Kr	83	3241.0	21.7				ug/L	646	Standard
	Y	89	1673944.1	1.0				ug/L	2084970	Standard
|	**Rh**	103	1047755.7	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	2622.3	1.7	**0.4843**	0.010	2.0	ug/L	229	KED
|	**Ni -4**	60	1095.7	2.9	**0.4307**	0.017	3.9	ug/L	94	KED
|	**Ni -5**	62	293.3	4.3	**0.8562**	0.042	4.9	ug/L	14	KED
|	**As-2**	75	259.3	6.0	**0.6235**	0.037	5.9	ug/L	8	KED
	Y-1	89	133564.1	0.4				ug/L	151628	KED
	Rh-1	103	313584.8	0.6				ug/L	379534	KED
|>	**Ge**	72	1024630.0	1.2				ug/L	1316182	Standard
|>	**In**	115	743405.4	1.8				ug/L	994105	Standard
|>	**Ge-1**	72	60497.8	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		77.849
|>	In	115		74.781
|>	Ge-1	72		89.247

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 10:30:38
Report Date/Time: Monday, August 26, 2024 10:32:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	949157.5	0.6	**39.7290**	0.224	0.6	ug/L	-9343	Standard
|	**Ni -1**	60	385425.8	1.0	**38.9104**	0.279	0.7	ug/L	582	Standard
|	**Ni -2**	62	317445.9	0.2	**215.3079**	2.645	1.2	ug/L	3055	Standard
|	**As**	75	291311.4	1.0	**41.7297**	0.178	0.4	ug/L	25703	Standard
|	**As-1**	75	263311.7	1.1	**40.1274**	0.063	0.2	ug/L	1359	Standard
|	**Se**	77	23019.2	1.7	**52.5204**	0.761	1.4	ug/L	259	Standard
|	**Se -1**	78	89378.1	1.5	**46.7412**	0.534	1.1	ug/L	25820	Standard
|	**Br**	79	29277.3	2.9				ug/L	715	Standard
|	**Se -2**	82	24216.2	2.1	**41.2671**	0.431	1.0	ug/L	617	Standard
	Kr	83	1930.8	4.2				ug/L	646	Standard
	Y	89	1971939.7	1.1				ug/L	2084970	Standard
|	**Rh**	103	1127149.2	1.9				ug/L	1339953	Standard
|	**Ni -3**	58	184698.7	0.8	**37.8593**	0.351	0.9	ug/L	229	KED
|	**Ni -4**	60	81524.6	0.0	**38.0180**	0.083	0.2	ug/L	94	KED
|	**Ni -5**	62	12513.1	0.8	**37.4987**	0.276	0.7	ug/L	14	KED
|	**As-2**	75	17086.2	0.8	**38.4081**	0.357	0.9	ug/L	8	KED
	Y-1	89	150997.5	0.1				ug/L	151628	KED
	Rh-1	103	314945.8	0.3				ug/L	379534	KED
|>	**Ge**	72	1220471.2	1.1				ug/L	1316182	Standard
|>	**In**	115	911413.7	1.8				ug/L	994105	Standard
|>	**Ge-1**	72	66131.4	0.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.323	
|	Ni -1	60	97.276	
|	Ni -2	62	538.270	
|	As	75	104.324	
|	As-1	75	100.319	
|	Se	77	131.301	
|	Se -1	78	116.853	
|	Br	79		
|	Se -2	82	103.168	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	94.648	
|	Ni -4	60	95.045	
|	Ni -5	62	93.747	
|	As-2	75	96.020	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		92.728
|>	In	115		91.682
|>	Ge-1	72		97.557

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 10:34:49
Report Date/Time: Monday, August 26, 2024 10:36:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	440998.4	0.7	**19.4386**	0.216	1.1	ug/L	-9343	Standard
|	**Ni -1**	60	182420.7	0.5	**19.2206**	0.092	0.5	ug/L	582	Standard
|	**Ni -2**	62	222224.6	1.1	**157.1794**	1.609	1.0	ug/L	3055	Standard
|	**As**	75	151098.8	0.4	**20.9143**	0.192	0.9	ug/L	25703	Standard
|	**As-1**	75	126589.6	0.1	**20.0956**	0.186	0.9	ug/L	1359	Standard
|	**Se**	77	11168.0	0.4	**26.3774**	0.298	1.1	ug/L	259	Standard
|	**Se -1**	78	55314.9	1.2	**24.0723**	0.301	1.2	ug/L	25820	Standard
|	**Br**	79	18866.5	0.8				ug/L	715	Standard
|	**Se -2**	82	12169.5	0.9	**21.2086**	0.118	0.6	ug/L	617	Standard
	Kr	83	1306.7	1.3				ug/L	646	Standard
	Y	89	1905707.5	0.4				ug/L	2084970	Standard
|	**Rh**	103	1098500.1	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	88194.9	1.0	**18.6970**	0.205	1.1	ug/L	229	KED
|	**Ni -4**	60	38728.1	1.1	**18.6652**	0.091	0.5	ug/L	94	KED
|	**Ni -5**	62	6054.9	1.1	**18.7662**	0.223	1.2	ug/L	14	KED
|	**As-2**	75	8320.8	0.7	**19.3924**	0.162	0.8	ug/L	8	KED
	Y-1	89	148344.2	0.4				ug/L	151628	KED
	Rh-1	103	312943.0	0.9				ug/L	379534	KED
| >	**Ge**	72	1166324.2	0.8				ug/L	1316182	Standard
| >	**In**	115	892179.3	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	63762.3	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	97.193	
|	Ni -1	60	96.103	
|	Ni -2	62	785.897	
|	As	75	104.572	
|	As-1	75	100.478	
|	Se	77	131.887	
|	Se -1	78	120.362	
|	Br	79		
|	Se -2	82	106.043	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	93.485	
|	Ni -4	60	93.326	
|	Ni -5	62	93.831	
|	As-2	75	96.962	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		88.614
| >	In	115		89.747
| >	Ge-1	72		94.063

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 10:39:00
Report Date/Time: Monday, August 26, 2024 10:40:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-7688.1	1.2	**-0.1014**	0.004	4.3	ug/L	-9343	Standard
|	**Ni -1**	60	432.7	4.2	**-0.0536**	0.002	3.5	ug/L	582	Standard
|	**Ni -2**	62	165734.6	1.2	**118.4993**	0.863	0.7	ug/L	3055	Standard
|	**As**	75	25834.4	0.9	**0.4919**	0.022	4.5	ug/L	25703	Standard
|	**As-1**	75	2256.0	2.2	**0.1801**	0.007	4.1	ug/L	1359	Standard
|	**Se**	77	1624.8	2.3	**3.3969**	0.085	2.5	ug/L	259	Standard
|	**Se -1**	78	26046.7	0.8	**2.3233**	0.080	3.5	ug/L	25820	Standard
|	**Br**	79	15754.0	0.9				ug/L	715	Standard
|	**Se -2**	82	1007.0	1.4	**0.8268**	0.018	2.2	ug/L	617	Standard
	Kr	83	1129.7	1.9				ug/L	646	Standard
	Y	89	1868042.8	0.0				ug/L	2084970	Standard
|	**Rh**	103	1176027.5	0.1				ug/L	1339953	Standard
|	**Ni -3**	58	159.3	9.3	**-0.0711**	0.003	4.2	ug/L	229	KED
|	**Ni -4**	60	72.0	17.4	**-0.0951**	0.006	6.4	ug/L	94	KED
|	**Ni -5**	62	45.0	9.7	**0.0321**	0.014	44.5	ug/L	14	KED
|	**As-2**	75	7.7	27.2	**0.0039**	0.005	127.6	ug/L	8	KED
	Y-1	89	146506.4	0.8				ug/L	151628	KED
	Rh-1	103	337693.1	0.5				ug/L	379534	KED
|>	**Ge**	72	1149042.9	0.5				ug/L	1316182	Standard
|>	**In**	115	873469.2	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	64121.3	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		87.301
|>	In	115		87.865
|>	Ge-1	72		94.592

Quantitative Analysis - Summary Report

Sample ID: 08-224-02c 10X

Sample Date/Time: Monday, August 26, 2024 10:43:34
Report Date/Time: Monday, August 26, 2024 10:45:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-02c 10X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	5077.7	76.8	**0.4939**	0.197	39.8	ug/L	-9343	Standard
|	**Ni -1**	60	14989.6	11.3	**1.7307**	0.216	12.5	ug/L	582	Standard
|	**Ni -2**	62	1661450.2	33.6	**1371.2470**	466.406	34.0	ug/L	3055	Standard
|	**As**	75	52158.3	12.0	**6.0405**	1.226	20.3	ug/L	25703	Standard
|	**As-1**	75	13798.2	19.1	**2.3599**	0.473	20.0	ug/L	1359	Standard
|	**Se**	77	75617.9	4.7	**209.8851**	11.061	5.3	ug/L	259	Standard
|	**Se -1**	78	62837.8	13.1	**36.9946**	7.434	20.1	ug/L	25820	Standard
|	**Br**	79	6585907.1	1.0				ug/L	715	Standard
|	**Se -2**	82	9697.6	2.5	**19.3961**	0.404	2.1	ug/L	617	Standard
	Kr	83	22918.9	35.8				ug/L	646	Standard
	Y	89	1718626.5	3.0				ug/L	2084970	Standard
|	**Rh**	103	1062382.5	2.0				ug/L	1339953	Standard
|	**Ni -3**	58	1237.9	3.6	**0.1558**	0.008	5.1	ug/L	229	KED
|	**Ni -4**	60	552.7	2.1	**0.1353**	0.009	6.3	ug/L	94	KED
|	**Ni -5**	62	616.3	3.7	**1.7904**	0.051	2.9	ug/L	14	KED
|	**As-2**	75	156.0	5.1	**0.3455**	0.015	4.3	ug/L	8	KED
	Y-1	89	136903.0	1.8				ug/L	151628	KED
	Rh-1	103	316784.0	1.5				ug/L	379534	KED
|>	**Ge**	72	1011764.3	0.6				ug/L	1316182	Standard
|>	**In**	115	757443.8	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	64535.5	1.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.871
|>	In	115		76.194
|>	Ge-1	72		95.203

Quantitative Analysis - Summary Report

Sample ID: 08-224-03c 10X

Sample Date/Time: Monday, August 26, 2024 10:47:44
Report Date/Time: Monday, August 26, 2024 10:49:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-03c 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	10088.6	10.6	**0.7168**	0.050	7.0	ug/L	-9343	Standard
|	**Ni -1**	60	16440.1	3.3	**1.7966**	0.061	3.4	ug/L	582	Standard
|	**Ni -2**	62	2530352.8	5.2	**1972.1529**	102.964	5.2	ug/L	3055	Standard
|	**As**	75	71351.1	1.7	**8.9141**	0.234	2.6	ug/L	25703	Standard
|	**As-1**	75	14625.4	7.4	**2.3660**	0.196	8.3	ug/L	1359	Standard
|	**Se**	77	79202.0	0.8	**207.6850**	1.475	0.7	ug/L	259	Standard
|	**Se -1**	78	80546.8	1.7	**48.4941**	1.098	2.3	ug/L	25820	Standard
|	**Br**	79	6235298.7	1.0				ug/L	715	Standard
|	**Se -2**	82	9466.1	1.0	**17.8116**	0.236	1.3	ug/L	617	Standard
	Kr	83	35050.0	6.0				ug/L	646	Standard
	Y	89	1825699.2	0.9				ug/L	2084970	Standard
|	**Rh**	103	1129356.8	0.3				ug/L	1339953	Standard
|	**Ni -3**	58	1015.0	1.9	**0.0928**	0.005	5.3	ug/L	229	KED
|	**Ni -4**	60	471.3	5.6	**0.0791**	0.010	13.0	ug/L	94	KED
|	**Ni -5**	62	588.0	3.6	**1.5671**	0.068	4.3	ug/L	14	KED
|	**As-2**	75	145.0	5.0	**0.2951**	0.017	5.8	ug/L	8	KED
	Y-1	89	148607.6	0.8				ug/L	151628	KED
	Rh-1	103	343040.6	0.7				ug/L	379534	KED
| >	**Ge**	72	1070711.3	0.3				ug/L	1316182	Standard
| >	**In**	115	802404.9	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	69799.4	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		81.350
| >	In	115		80.716
| >	Ge-1	72		102.969

Quantitative Analysis - Summary Report

Sample ID: 08-224-04c 10X

Sample Date/Time: Monday, August 26, 2024 10:51:53
Report Date/Time: Monday, August 26, 2024 10:53:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04c 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	9782.8	10.3	**0.6199**	0.038	6.1	ug/L	-9343	Standard
|	**Ni -1**	60	5256.3	1.7	**0.3987**	0.008	2.0	ug/L	582	Standard
|	**Ni -2**	62	1100799.5	3.1	**704.4180**	22.911	3.3	ug/L	3055	Standard
|	**As**	75	67185.6	1.5	**6.0476**	0.150	2.5	ug/L	25703	Standard
|	**As-1**	75	13464.1	1.9	**1.7459**	0.038	2.2	ug/L	1359	Standard
|	**Se**	77	13367.6	6.7	**28.3297**	1.961	6.9	ug/L	259	Standard
|	**Se -1**	78	58800.5	2.3	**22.0900**	0.910	4.1	ug/L	25820	Standard
|	**Br**	79	298088.4	0.9				ug/L	715	Standard
|	**Se -2**	82	2079.8	1.7	**2.3650**	0.058	2.5	ug/L	617	Standard
	Kr	83	6469.8	7.9				ug/L	646	Standard
	Y	89	1684042.2	0.9				ug/L	2084970	Standard
|	**Rh**	103	1336597.4	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	3197.8	4.5	**0.5074**	0.027	5.4	ug/L	229	KED
|	**Ni -4**	60	745.7	9.4	**0.1952**	0.030	15.4	ug/L	94	KED
|	**Ni -5**	62	274.3	6.5	**0.6604**	0.046	7.0	ug/L	14	KED
|	**As-2**	75	718.0	0.4	**1.4901**	0.007	0.5	ug/L	8	KED
	Y-1	89	157121.7	0.4				ug/L	151628	KED
	Rh-1	103	390088.4	0.9				ug/L	379534	KED
|>	**Ge**	72	1301792.8	0.6				ug/L	1316182	Standard
|>	**In**	115	909008.3	1.1				ug/L	994105	Standard
|>	**Ge-1**	72	70995.6	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		98.907
|>	In	115		91.440
|>	Ge-1	72		104.733

Quantitative Analysis - Summary Report

Sample ID: 08-224-05c 10X

Sample Date/Time: Monday, August 26, 2024 10:56:02
Report Date/Time: Monday, August 26, 2024 10:57:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-05c 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	6907.9	30.2	**0.5601**	0.096	17.2	ug/L	-9343	Standard
|	**Ni -1**	60	15257.2	4.5	**1.6294**	0.071	4.4	ug/L	582	Standard
|	**Ni -2**	62	2642166.2	9.7	**2023.2663**	189.112	9.3	ug/L	3055	Standard
|	**As**	75	73872.4	4.8	**9.1337**	0.563	6.2	ug/L	25703	Standard
|	**As-1**	75	16256.1	8.2	**2.6010**	0.226	8.7	ug/L	1359	Standard
|	**Se**	77	67069.8	2.6	**172.7238**	3.966	2.3	ug/L	259	Standard
|	**Se -1**	78	81417.0	4.7	**48.0458**	2.864	6.0	ug/L	25820	Standard
|	**Br**	79	6590550.9	0.3				ug/L	715	Standard
|	**Se -2**	82	9459.5	0.7	**17.4722**	0.178	1.0	ug/L	617	Standard
	Kr	83	30473.9	14.8				ug/L	646	Standard
	Y	89	1870057.8	0.2				ug/L	2084970	Standard
|	**Rh**	103	1151698.5	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	1076.4	2.9	**0.1037**	0.006	6.1	ug/L	229	KED
|	**Ni -4**	60	476.0	3.3	**0.0802**	0.007	8.2	ug/L	94	KED
|	**Ni -5**	62	745.0	2.2	**2.0034**	0.046	2.3	ug/L	14	KED
|	**As-2**	75	117.3	7.2	**0.2348**	0.018	7.6	ug/L	8	KED
	Y-1	89	149627.9	0.7				ug/L	151628	KED
	Rh-1	103	345527.5	0.7				ug/L	379534	KED
|>	**Ge**	72	1089571.7	0.5				ug/L	1316182	Standard
|>	**In**	115	816232.2	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	70148.8	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.783
|>	In	115		82.107
|>	Ge-1	72		103.484

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 11:08:52
Report Date/Time: Monday, August 26, 2024 11:10:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1073967.8	0.7	**40.0390**	0.129	0.3	ug/L	-9343	Standard
|	**Ni -1**	60	435092.8	0.6	**39.1260**	0.161	0.4	ug/L	582	Standard
|	**Ni -2**	62	774773.1	3.5	**470.3581**	15.712	3.3	ug/L	3055	Standard
|	**As**	75	331148.3	1.0	**42.3020**	0.475	1.1	ug/L	25703	Standard
|	**As-1**	75	294854.0	1.0	**40.0268**	0.522	1.3	ug/L	1359	Standard
|	**Se**	77	23092.0	1.1	**46.8683**	0.472	1.0	ug/L	259	Standard
|	**Se -1**	78	105453.5	1.9	**50.0192**	1.076	2.2	ug/L	25820	Standard
|	**Br**	79	38881.2	0.3				ug/L	715	Standard
|	**Se -2**	82	27293.1	1.9	**41.4398**	0.990	2.4	ug/L	617	Standard
	Kr	83	2251.5	2.1				ug/L	646	Standard
	Y	89	1809730.0	0.8				ug/L	2084970	Standard
|	**Rh**	103	1256992.6	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	212341.4	0.3	**38.8438**	0.262	0.7	ug/L	229	KED
|	**Ni -4**	60	93289.3	0.7	**38.8278**	0.659	1.7	ug/L	94	KED
|	**Ni -5**	62	14461.3	1.6	**38.6799**	0.901	2.3	ug/L	14	KED
|	**As-2**	75	19062.0	0.5	**38.2381**	0.327	0.9	ug/L	8	KED
	Y-1	89	165545.7	0.6				ug/L	151628	KED
	Rh-1	103	357533.1	0.3				ug/L	379534	KED
|>	**Ge**	72	1370153.7	0.6				ug/L	1316182	Standard
|>	**In**	115	996206.7	0.3				ug/L	994105	Standard
|>	**Ge-1**	72	74109.7	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.098	
|	Ni -1	60	97.815	
|	Ni -2	62	1175.895	
|	As	75	105.755	
|	As-1	75	100.067	
|	Se	77	117.171	
|	Se -1	78	125.048	
|	Br	79		
|	Se -2	82	103.599	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.109	
|	Ni -4	60	97.070	
|	Ni -5	62	96.700	
|	As-2	75	95.595	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		104.101
|>	In	115		100.211
|>	Ge-1	72		109.327

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 11:13:03
Report Date/Time: Monday, August 26, 2024 11:14:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	496821.2	0.7	**19.8513**	0.022	0.1	ug/L	-9343	Standard
|	**Ni -1**	60	205461.7	0.9	**19.6315**	0.107	0.5	ug/L	582	Standard
|	**Ni -2**	62	549472.0	1.1	**354.8609**	2.024	0.6	ug/L	3055	Standard
|	**As**	75	171573.8	0.2	**21.6463**	0.156	0.7	ug/L	25703	Standard
|	**As-1**	75	140154.2	0.4	**20.1750**	0.187	0.9	ug/L	1359	Standard
|	**Se**	77	11517.6	1.5	**24.6269**	0.283	1.1	ug/L	259	Standard
|	**Se -1**	78	66195.0	0.7	**27.6189**	0.048	0.2	ug/L	25820	Standard
|	**Br**	79	31401.5	1.3				ug/L	715	Standard
|	**Se -2**	82	13743.3	0.1	**21.7436**	0.124	0.6	ug/L	617	Standard
	Kr	83	1736.8	1.0				ug/L	646	Standard
	Y	89	1728615.7	1.0				ug/L	2084970	Standard
|	**Rh**	103	1189601.2	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	98728.1	0.2	**19.1186**	0.136	0.7	ug/L	229	KED
|	**Ni -4**	60	43596.1	0.8	**19.1946**	0.149	0.8	ug/L	94	KED
|	**Ni -5**	62	6913.7	1.0	**19.5745**	0.074	0.4	ug/L	14	KED
|	**As-2**	75	9064.2	0.6	**19.2944**	0.155	0.8	ug/L	8	KED
	Y-1	89	158132.7	0.2				ug/L	151628	KED
	Rh-1	103	332818.1	0.8				ug/L	379534	KED
|>	**Ge**	72	1286245.6	0.6				ug/L	1316182	Standard
|>	**In**	115	951780.2	1.3				ug/L	994105	Standard
|>	**Ge-1**	72	69813.2	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.257	
|	Ni -1	60	98.158	
|	Ni -2	62	1774.304	
|	As	75	108.232	
|	As-1	75	100.875	
|	Se	77	123.134	
|	Se -1	78	138.094	
|	Br	79		
|	Se -2	82	108.718	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	95.593	
|	Ni -4	60	95.973	
|	Ni -5	62	97.873	
|	As-2	75	96.472	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		97.725
|>	In	115		95.742
|>	Ge-1	72		102.989

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 11:17:14
Report Date/Time: Monday, August 26, 2024 11:19:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-8112.6	0.7	**-0.0865**	0.002	2.8	ug/L	-9343	Standard
|	**Ni -1**	60	585.3	2.6	**-0.0431**	0.001	2.3	ug/L	582	Standard
|	**Ni -2**	62	422306.3	1.2	**276.2845**	4.927	1.8	ug/L	3055	Standard
|	**As**	75	32176.4	1.3	**1.0443**	0.061	5.8	ug/L	25703	Standard
|	**As-1**	75	2792.0	5.0	**0.2246**	0.016	6.9	ug/L	1359	Standard
|	**Se**	77	1406.1	1.5	**2.5383**	0.045	1.8	ug/L	259	Standard
|	**Se -1**	78	32571.4	1.3	**4.9786**	0.244	4.9	ug/L	25820	Standard
|	**Br**	79	25743.5	1.1				ug/L	715	Standard
|	**Se -2**	82	1298.7	4.9	**1.1416**	0.076	6.6	ug/L	617	Standard
	Kr	83	1534.4	2.4				ug/L	646	Standard
	Y	89	1696856.8	0.6				ug/L	2084970	Standard
|	**Rh**	103	1282322.6	0.1				ug/L	1339953	Standard
|	**Ni -3**	58	205.1	9.9	**-0.0646**	0.004	5.7	ug/L	229	KED
|	**Ni -4**	60	98.7	1.5	**-0.0857**	0.001	1.1	ug/L	94	KED
|	**Ni -5**	62	84.0	3.6	**0.1337**	0.011	7.9	ug/L	14	KED
|	**As-2**	75	11.7	9.9	**0.0111**	0.003	24.3	ug/L	8	KED
	Y-1	89	157579.4	0.7				ug/L	151628	KED
	Rh-1	103	362394.2	0.8				ug/L	379534	KED
|>	**Ge**	72	1267888.5	1.4				ug/L	1316182	Standard
|>	**In**	115	942557.6	0.5				ug/L	994105	Standard
|>	**Ge-1**	72	69240.7	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		96.331
|>	In	115		94.815
|>	Ge-1	72		102.144

DIGESTION DATE:	8-26-24
ANALYST:	kdM

QC BATCH #:	08-013-05a
MATRIX:	wdw
ANALYSIS METHOD:	3015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MD0826WM1	45mL	50mL			
SB0826WM1	↓	↓			
08-013-05a					
05aD					
05aMS					
05aMSD					
08-224-01c					
02c					
03c					
04c					
05c					

SPIKE ID# IV6000Cal-1

VOL ADDED: .25mL

Dissolved Metals EPA 200.8

- Sample Data
- QA/QC Data
- Initial Calibration Data
- Continuing Calibration Data
- Administrative Forms

Dataset Report

KPM
8-26-24

User Name: kmckinney
Computer Name: DESKTOP-RIRVUDN
Dataset File Path: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\
Report Date/Time: Monday, August 26, 2024 11:19:14

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Samp. File Name	Description
SmartTune - [	[STD/KED] Nebulizer (	07:07:45 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:09:57 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:12:05 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - C	QID	07:14:15 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - M	Mass Calibration and I	07:16:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - M	Mass Calibration and I	07:17:15 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:17:57 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:19:17 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:20:36 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
SmartTune - [	[STD] Performance Ch	07:22:55 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Sample	07:29:50 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Sample	07:34:00 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	07:38:11 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Blank	07:43:04 Mon 26-A	Blank	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 1	07:46:24 Mon 26-A	Standard #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 2	07:49:45 Mon 26-A	Standard #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 3	07:53:05 Mon 26-A	Standard #3	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 4	07:56:25 Mon 26-A	Standard #4	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 5	07:59:45 Mon 26-A	Standard #5	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 6	08:03:05 Mon 26-A	Standard #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	Standard 7	08:06:25 Mon 26-A	Standard #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 1	08:10:35 Mon 26-A	QC Std #1	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 2	08:14:46 Mon 26-A	QC Std #2	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	08:18:06 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	08:22:16 Mon 26-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	08:26:26 Mon 26-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	MB0826D1 2X	08:29:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	SB0826D1 2X	08:37:20 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-01d 10X	08:41:29 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-02d 10X	08:45:38 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-03d 10X	08:49:47 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04d 10X	08:53:56 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-05d 10X	08:58:05 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dD 10X	09:02:16 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dL 50X	09:06:25 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dMS 10X	09:10:35 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	09:14:46 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 7	09:18:56 Mon 26-A	QC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 8	09:23:07 Mon 26-A	QC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-04dMSD 10X	09:27:34 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	MB0826WM1 2X	09:31:43 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	SB0826WM1 2X	09:43:42 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05a 2X	09:47:50 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aD 2X	09:51:59 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aL 10X	09:56:08 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aMS 2X	10:00:17 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aMSD 2X	10:04:26 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-013-05aPS 2X	10:08:36 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	08-224-01c 10X	10:26:27 Mon 26-A	Sample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	
	QC Std 6	10:30:38 Mon 26-A	QC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240	

QC Std 7	10:34:49 Mon 26-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 8	10:39:00 Mon 26-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-02c 10X	10:43:34 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-03c 10X	10:47:44 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-04c 10X	10:51:53 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
08-224-05c 10X	10:56:02 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 6	11:00:12 Mon 26-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
BL	11:04:42 Mon 26-ASample	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 6	11:08:52 Mon 26-AQC Std #6	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 7	11:13:03 Mon 26-AQC Std #7	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240
QC Std 8	11:17:14 Mon 26-AQC Std #8	C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Start Time: 8/26/2024 7:16:47 AM
End Time: 8/26/2024 7:17:45 AM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.692)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.702)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\SmartTune Daily.swz

Optimization Status

Start Time: 8/26/2024 7:22:54 AM

[STD] Performance Check

Optimization Settings:

Method: \Optimizations\STD Performance Check.mth.
Intensity Criterion: Li 7 > 55000
Intensity Criterion: In 115 > 300000
Intensity Criterion: U 238 > 225000
Intensity Criterion: Bkgd 220.5 <= 5
Formula Criterion: Ce++ 70 ÷ Ce 140 <= 0.03
Formula Criterion: CeO 156 ÷ Ce 140 <= 0.025
RSD Criterion: Li 7.016 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Li 7): 83830.31
Obtained Intensity (In 115): 353286.72
Obtained Intensity (U 238): 234529.61
Obtained Intensity (Bkgd 220.5): 0.90
Obtained Formula (Ce++ 70 ÷ Ce 140): 0.009 (=3701.61 ÷ 390450.62)
Obtained Formula (CeO 156 ÷ Ce 140): 0.025 (=9568.67 ÷ 390450.62)
Obtained RSD (Li 7): 0.0044
Obtained RSD (In 115): 0.0126
Obtained RSD (U 238): 0.0070

[Passed] Optimum value(s): N/A

End Time: 8/26/2024 7:25:00 AM

Quantitative Analysis Calibration Report

File Name:
File Path:
Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Ni	57.935	Weighted Linear	0.02	0.00	0.999831
Ni -1	59.933	Weighted Linear	0.01	0.00	0.999747
Ni -2	61.928	Weighted Linear	0.00	0.00	0.999615
As	74.922	Weighted Linear	0.01	0.00	0.999911
As-1	74.922	Weighted Linear	0.01	-0.00	0.999317
Se	76.920	Weighted Linear	0.00	0.00	0.999853
Se -1	77.917	Weighted Linear	0.00	0.00	0.998953
Br	78.918	Weighted Linear	0.00	0.00	0.000000
Se -2	81.917	Weighted Linear	0.00	0.00	0.999643
Kr	82.914	Weighted Linear	0.00	0.00	0.000000
Y	88.905	Weighted Linear	0.00	0.00	0.000000
Rh	102.905	Weighted Linear	0.00	0.00	0.000000
Ni -3	57.935	Weighted Linear	0.07	0.00	0.999599
Ni -4	59.933	Weighted Linear	0.03	0.00	0.999653
Ni -5	61.928	Weighted Linear	0.01	0.00	0.999172
As-2	74.922	Weighted Linear	0.01	-0.00	0.998311
Y-1	88.905	Weighted Linear	0.00	0.00	0.000000
Rh-1	102.905	Weighted Linear	0.00	0.00	0.000000
Ge	71.922	Linear Thru Zero	0.00	0.00	0.000000
In	114.904	Linear Thru Zero	0.00	0.00	0.000000
Ge-1	71.922	Linear Thru Zero	0.00	0.00	0.000000

Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Date/Time: Monday, August 26, 2024 07:43:04
Report Date/Time: Monday, August 26, 2024 07:44:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Blank.014

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-9342.9	2.2				ug/L		Standard
|	**Ni -1**	60	582.0	4.1				ug/L		Standard
|	**Ni -2**	62	3054.7	0.6				ug/L		Standard
|	**As**	75	25703.0	0.6				ug/L		Standard
|	**As-1**	75	1358.8	3.7				ug/L		Standard
|	**Se**	77	259.0	4.1				ug/L		Standard
|	**Se -1**	78	25820.3	0.8				ug/L		Standard
|	**Br**	79	715.0	3.2				ug/L		Standard
|	**Se -2**	82	617.3	3.7				ug/L		Standard
	Kr	83	646.3	5.6				ug/L		Standard
	Y	89	2084970.2	0.7				ug/L		Standard
|	**Rh**	103	1339953.1	0.5				ug/L		Standard
|	**Ni -3**	58	229.0	4.6				ug/L		KED
|	**Ni -4**	60	94.3	6.4				ug/L		KED
|	**Ni -5**	62	13.7	4.2				ug/L		KED
|	**As-2**	75	8.0	45.1				ug/L		KED
	Y-1	89	151628.4	0.2				ug/L		KED
	Rh-1	103	379534.0	0.6				ug/L		KED
|>	**Ge**	72	1316182.2	1.1				ug/L		Standard
|>	**In**	115	994104.9	0.3				ug/L		Standard
|>	**Ge-1**	72	67787.1	0.8				ug/L		KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Date/Time: Monday, August 26, 2024 07:46:24
Report Date/Time: Monday, August 26, 2024 07:48:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 1.015

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-4877.6	0.3				ug/L	-9343	Standard
|	**Ni -1**	60	2700.9	1.0				ug/L	582	Standard
|	**Ni -2**	62	3404.4	1.1				ug/L	3055	Standard
|	**As**	75	27582.2	0.2				ug/L	25703	Standard
|	**As-1**	75	2753.7	3.5				ug/L	1359	Standard
|	**Se**	77	366.0	5.3				ug/L	259	Standard
|	**Se -1**	78	26694.6	0.5				ug/L	25820	Standard
|	**Br**	79	765.0	1.3				ug/L	715	Standard
|	**Se -2**	82	771.7	4.3				ug/L	617	Standard
	Kr	83	628.3	5.8				ug/L	646	Standard
	Y	89	2119085.7	0.3				ug/L	2084970	Standard
|	**Rh**	103	1496770.7	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	1234.8	2.2				ug/L	229	KED
|	**Ni -4**	60	551.3	6.5				ug/L	94	KED
|	**Ni -5**	62	90.3	2.8				ug/L	14	KED
|	**As-2**	75	93.3	17.1				ug/L	8	KED
	Y-1	89	151423.0	0.9				ug/L	151628	KED
	Rh-1	103	412720.0	0.4				ug/L	379534	KED
|>	**Ge**	72	1349969.2	0.6				ug/L	1316182	Standard
|>	**In**	115	1011868.8	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	67690.3	0.5				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Date/Time: Monday, August 26, 2024 07:49:45
Report Date/Time: Monday, August 26, 2024 07:51:34
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 2.016

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4416.0	8.0				ug/L	-9343	Standard
|	**Ni -1**	60	6414.4	0.5				ug/L	582	Standard
|	**Ni -2**	62	3951.5	1.0				ug/L	3055	Standard
|	**As**	75	29948.7	1.0				ug/L	25703	Standard
|	**As-1**	75	5130.6	1.4	**0.5000**	0.006	1.2	ug/L	1359	Standard
|	**Se**	77	512.7	2.8				ug/L	259	Standard
|	**Se -1**	78	27158.1	0.6				ug/L	25820	Standard
|	**Br**	79	734.0	5.1				ug/L	715	Standard
|	**Se -2**	82	958.4	4.3				ug/L	617	Standard
	Kr	83	621.7	7.9				ug/L	646	Standard
	Y	89	2115000.8	0.3				ug/L	2084970	Standard
|	**Rh**	103	1499381.4	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	2991.4	1.5				ug/L	229	KED
|	**Ni -4**	60	1370.1	3.4				ug/L	94	KED
|	**Ni -5**	62	204.3	7.9				ug/L	14	KED
|	**As-2**	75	259.7	8.2	**0.5000**	0.038	7.6	ug/L	8	KED
	Y-1	89	153673.8	0.6				ug/L	151628	KED
	Rh-1	103	415952.1	0.6				ug/L	379534	KED
|>	**Ge**	72	1329986.3	0.8				ug/L	1316182	Standard
|>	**In**	115	1008179.0	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	67813.2	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Date/Time: Monday, August 26, 2024 07:53:05
Report Date/Time: Monday, August 26, 2024 07:54:54
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 3.017

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	45934.9	2.0				ug/L	-9343	Standard
|	**Ni -1**	60	23134.7	0.8	**2.0000**	0.032	1.6	ug/L	582	Standard
|	**Ni -2**	62	6421.1	1.2	**2.0000**	0.054	2.7	ug/L	3055	Standard
|	**As**	75	40360.4	0.6	**2.0000**	0.053	2.6	ug/L	25703	Standard
|	**As-1**	75	15681.0	1.0	**1.9428**	0.019	1.0	ug/L	1359	Standard
|	**Se**	77	1200.4	1.3	**2.0000**	0.012	0.6	ug/L	259	Standard
|	**Se -1**	78	29492.4	0.3				ug/L	25820	Standard
|	**Br**	79	747.7	4.8				ug/L	715	Standard
|	**Se -2**	82	1932.1	0.6	**2.0000**	0.017	0.9	ug/L	617	Standard
	Kr	83	620.7	2.8				ug/L	646	Standard
	Y	89	2122700.3	0.5				ug/L	2084970	Standard
|	**Rh**	103	1476828.7	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	10938.6	1.6	**2.0000**	0.043	2.2	ug/L	229	KED
|	**Ni -4**	60	4837.8	0.8	**2.0000**	0.017	0.9	ug/L	94	KED
|	**Ni -5**	62	769.4	1.2	**2.0000**	0.035	1.8	ug/L	14	KED
|	**As-2**	75	923.0	0.7	**1.8956**	0.010	0.5	ug/L	8	KED
	Y-1	89	154448.8	0.3				ug/L	151628	KED
	Rh-1	103	416222.0	0.2				ug/L	379534	KED
| >	**Ge**	72	1326034.6	1.0				ug/L	1316182	Standard
| >	**In**	115	1002577.9	0.7				ug/L	994105	Standard
| >	**Ge-1**	72	68493.1	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Date/Time: Monday, August 26, 2024 07:56:25
Report Date/Time: Monday, August 26, 2024 07:58:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 4.018

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	120104.1	2.2	**5.0000**	0.061	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	53937.0	1.9	**4.9762**	0.040	0.8	ug/L	582	Standard
|	**Ni -2**	62	10913.8	1.8	**4.9854**	0.064	1.3	ug/L	3055	Standard
|	**As**	75	59624.8	0.5	**5.0291**	0.140	2.8	ug/L	25703	Standard
|	**As-1**	75	35580.5	0.4	**4.8894**	0.070	1.4	ug/L	1359	Standard
|	**Se**	77	2588.9	1.8	**5.0914**	0.022	0.4	ug/L	259	Standard
|	**Se -1**	78	33359.6	0.2	**5.0000**	0.335	6.7	ug/L	25820	Standard
|	**Br**	79	707.7	0.7				ug/L	715	Standard
|	**Se -2**	82	3704.5	1.6	**4.9746**	0.119	2.4	ug/L	617	Standard
	Kr	83	648.0	2.5				ug/L	646	Standard
	Y	89	2041081.5	1.2				ug/L	2084970	Standard
|	**Rh**	103	1427597.1	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	25597.4	0.7	**4.9728**	0.040	0.8	ug/L	229	KED
|	**Ni -4**	60	11277.8	1.7	**4.9816**	0.106	2.1	ug/L	94	KED
|	**Ni -5**	62	1746.4	0.5	**4.8969**	0.011	0.2	ug/L	14	KED
|	**As-2**	75	2263.5	1.0	**4.8873**	0.072	1.5	ug/L	8	KED
	Y-1	89	150582.8	0.3				ug/L	151628	KED
	Rh-1	103	402097.1	0.6				ug/L	379534	KED
|>	**Ge**	72	1277916.0	1.5				ug/L	1316182	Standard
|>	**In**	115	967247.2	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	66356.8	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 5

Sample Date/Time: Monday, August 26, 2024 07:59:45
Report Date/Time: Monday, August 26, 2024 08:01:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 5.019

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	509133.3	0.3	**19.9600**	0.038	0.2	ug/L	-9343	Standard
|	**Ni -1**	60	210793.2	0.6	**19.4999**	0.068	0.3	ug/L	582	Standard
|	**Ni -2**	62	34236.3	0.4	**19.4773**	0.055	0.3	ug/L	3055	Standard
|	**As**	75	162231.5	0.3	**19.6819**	0.123	0.6	ug/L	25703	Standard
|	**As-1**	75	138442.2	0.3	**19.3244**	0.096	0.5	ug/L	1359	Standard
|	**Se**	77	9683.3	0.6	**20.0380**	0.145	0.7	ug/L	259	Standard
|	**Se -1**	78	55757.3	0.6	**19.2766**	0.177	0.9	ug/L	25820	Standard
|	**Br**	79	652.7	6.1				ug/L	715	Standard
|	**Se -2**	82	12626.2	1.1	**19.2727**	0.174	0.9	ug/L	617	Standard
	Kr	83	672.3	4.5				ug/L	646	Standard
	Y	89	2055733.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	1164901.6	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	99932.0	0.9	**19.4655**	0.147	0.8	ug/L	229	KED
|	**Ni -4**	60	44055.8	0.5	**19.5383**	0.240	1.2	ug/L	94	KED
|	**Ni -5**	62	6775.3	1.0	**19.2055**	0.266	1.4	ug/L	14	KED
|	**As-2**	75	9022.8	1.9	**19.2880**	0.233	1.2	ug/L	8	KED
	Y-1	89	154972.0	0.4				ug/L	151628	KED
	Rh-1	103	335619.7	0.1				ug/L	379534	KED
|>	**Ge**	72	1312501.6	0.2				ug/L	1316182	Standard
|>	**In**	115	986770.5	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	68234.9	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		
|>	In	115		
|>	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 6

Sample Date/Time: Monday, August 26, 2024 08:03:05
Report Date/Time: Monday, August 26, 2024 08:04:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 6.020

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1066742.7	0.5	**40.5327**	0.279	0.7	ug/L	-9343	Standard
|	**Ni -1**	60	430257.8	1.3	**39.5324**	0.603	1.5	ug/L	582	Standard
|	**Ni -2**	62	66742.9	0.7	**39.4558**	0.137	0.3	ug/L	3055	Standard
|	**As**	75	306035.3	0.8	**39.8936**	0.183	0.5	ug/L	25703	Standard
|	**As-1**	75	284109.9	1.0	**39.4604**	0.278	0.7	ug/L	1359	Standard
|	**Se**	77	19160.2	0.5	**39.7452**	0.295	0.7	ug/L	259	Standard
|	**Se -1**	78	86451.5	0.7	**39.1508**	0.476	1.2	ug/L	25820	Standard
|	**Br**	79	665.3	5.3				ug/L	715	Standard
|	**Se -2**	82	25447.0	0.2	**39.5127**	0.131	0.3	ug/L	617	Standard
	Kr	83	652.3	1.9				ug/L	646	Standard
	Y	89	2090592.5	0.7				ug/L	2084970	Standard
|	**Rh**	103	1201354.6	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	201943.5	0.7	**39.3842**	0.360	0.9	ug/L	229	KED
|	**Ni -4**	60	89085.2	0.7	**39.5221**	0.408	1.0	ug/L	94	KED
|	**Ni -5**	62	13732.3	1.1	**39.0952**	0.661	1.7	ug/L	14	KED
|	**As-2**	75	18247.0	1.3	**39.0297**	0.583	1.5	ug/L	8	KED
	Y-1	89	156266.1	1.0				ug/L	151628	KED
	Rh-1	103	339805.4	0.9				ug/L	379534	KED
| >	**Ge**	72	1331299.4	0.4				ug/L	1316182	Standard
| >	**In**	115	1012949.8	1.0				ug/L	994105	Standard
| >	**Ge-1**	72	68768.1	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: Standard 7

Sample Date/Time: Monday, August 26, 2024 08:06:25
Report Date/Time: Monday, August 26, 2024 08:08:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\Standard 7.021

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	2552171.1	0.9	**97.9260**	0.215	0.2	ug/L	-9343	Standard
|	**Ni -1**	60	1049137.1	1.4	**97.5882**	0.614	0.6	ug/L	582	Standard
|	**Ni -2**	62	156209.9	1.6	**96.3734**	0.471	0.5	ug/L	3055	Standard
|	**As**	75	713059.6	0.7	**98.7265**	0.412	0.4	ug/L	25703	Standard
|	**As-1**	75	694802.2	0.4	**97.6847**	0.686	0.7	ug/L	1359	Standard
|	**Se**	77	46639.7	0.3	**98.4087**	0.935	1.0	ug/L	259	Standard
|	**Se -1**	78	175049.7	0.8	**98.3283**	0.728	0.7	ug/L	25820	Standard
|	**Br**	79	637.0	3.2				ug/L	715	Standard
|	**Se -2**	82	61782.0	0.6	**98.2832**	1.713	1.7	ug/L	617	Standard
	Kr	83	694.4	3.4				ug/L	646	Standard
	Y	89	2089441.5	0.6				ug/L	2084970	Standard
|	**Rh**	103	1174331.5	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	490586.8	0.7	**96.4291**	0.671	0.7	ug/L	229	KED
|	**Ni -4**	60	215434.3	0.4	**96.3763**	0.485	0.5	ug/L	94	KED
|	**Ni -5**	62	33372.9	1.1	**95.9092**	1.078	1.1	ug/L	14	KED
|	**As-2**	75	44491.8	0.7	**95.7639**	0.433	0.5	ug/L	8	KED
	Y-1	89	157689.2	0.9				ug/L	151628	KED
	Rh-1	103	332503.0	1.1				ug/L	379534	KED
| >	**Ge**	72	1326613.6	1.1				ug/L	1316182	Standard
| >	**In**	115	1016299.3	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	69079.6	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		
| >	In	115		
| >	Ge-1	72		

Quantitative Analysis - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Monday, August 26, 2024 08:10:35
Report Date/Time: Monday, August 26, 2024 08:12:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 1.022

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1367303.4	0.7	**50.0420**	0.639	1.3	ug/L	-9343	Standard
|	**Ni -1**	60	551665.7	0.4	**48.7824**	0.342	0.7	ug/L	582	Standard
|	**Ni -2**	62	83843.3	0.3	**48.2533**	0.167	0.3	ug/L	3055	Standard
|	**As**	75	386651.0	0.6	**49.1048**	0.488	1.0	ug/L	25703	Standard
|	**As-1**	75	367239.8	0.6	**49.0382**	0.435	0.9	ug/L	1359	Standard
|	**Se**	77	25273.7	1.0	**50.4594**	0.460	0.9	ug/L	259	Standard
|	**Se -1**	78	104059.3	0.2	**47.9824**	0.402	0.8	ug/L	25820	Standard
|	**Br**	79	663.0	3.4				ug/L	715	Standard
|	**Se -2**	82	33368.6	0.4	**50.0010**	0.159	0.3	ug/L	617	Standard
	Kr	83	626.7	5.2				ug/L	646	Standard
	Y	89	2158985.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	493830.4	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	260610.8	0.5	**48.8118**	0.649	1.3	ug/L	229	KED
|	**Ni -4**	60	114375.7	0.3	**48.7420**	0.386	0.8	ug/L	94	KED
|	**Ni -5**	62	17645.6	0.2	**48.3192**	0.569	1.2	ug/L	14	KED
|	**As-2**	75	23535.4	0.4	**48.3158**	0.688	1.4	ug/L	8	KED
	Y-1	89	169870.3	0.2				ug/L	151628	KED
	Rh-1	103	141074.2	0.5				ug/L	379534	KED
|>	**Ge**	72	1394095.0	0.6				ug/L	1316182	Standard
|>	**In**	115	1101204.7	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	72424.5	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.084	
|	Ni -1	60	97.565	
|	Ni -2	62	96.507	
|	As	75	98.210	
|	As-1	75	98.076	
|	Se	77	100.919	
|	Se -1	78	95.965	
|	Br	79		
|	Se -2	82	100.002	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.624	
|	Ni -4	60	97.484	
|	Ni -5	62	96.638	
|	As-2	75	96.632	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		105.920
|>	In	115		110.773
|>	Ge-1	72		106.841

Quantitative Analysis - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Monday, August 26, 2024 08:14:46
Report Date/Time: Monday, August 26, 2024 08:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 2.023

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-6557.5	5.4	**-0.0198**	0.014	69.7	ug/L	-9343	Standard
|	**Ni -1**	60	854.4	13.0	**-0.0183**	0.011	59.9	ug/L	582	Standard
|	**Ni -2**	62	3209.7	2.5	**0.0919**	0.050	54.6	ug/L	3055	Standard
|	**As**	75	23996.4	1.3	**-0.2476**	0.045	18.2	ug/L	25703	Standard
|	**As-1**	75	1350.7	10.7	**0.0089**	0.021	234.3	ug/L	1359	Standard
|	**Se**	77	236.0	10.8	**-0.0692**	0.054	78.4	ug/L	259	Standard
|	**Se -1**	78	24081.6	1.5	**-1.1874**	0.232	19.5	ug/L	25820	Standard
|	**Br**	79	653.3	2.4				ug/L	715	Standard
|	**Se -2**	82	599.0	7.5	**-0.0517**	0.073	141.7	ug/L	617	Standard
	Kr	83	603.7	6.5				ug/L	646	Standard
	Y	89	1879283.4	1.0				ug/L	2084970	Standard
|	**Rh**	103	1310465.5	1.3				ug/L	1339953	Standard
|	**Ni -3**	58	313.4	8.0	**-0.0418**	0.006	13.4	ug/L	229	KED
|	**Ni -4**	60	139.0	12.6	**-0.0662**	0.008	11.6	ug/L	94	KED
|	**Ni -5**	62	21.7	37.3	**-0.0438**	0.023	53.5	ug/L	14	KED
|	**As-2**	75	13.7	18.4	**0.0161**	0.005	33.6	ug/L	8	KED
	Y-1	89	154173.5	0.3				ug/L	151628	KED
	Rh-1	103	374979.7	0.6				ug/L	379534	KED
|>	**Ge**	72	1289742.1	0.4				ug/L	1316182	Standard
|>	**In**	115	977337.9	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	67557.7	1.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		97.991
|>	In	115		98.313
|>	Ge-1	72		99.662

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 08:18:06
Report Date/Time: Monday, August 26, 2024 08:19:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.024

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1002757.7	1.0	**40.3113**	0.409	1.0	ug/L	-9343	Standard
|	**Ni -1**	60	405583.8	0.8	**39.3292**	0.164	0.4	ug/L	582	Standard
|	**Ni -2**	62	62974.5	1.0	**39.4163**	0.574	1.5	ug/L	3055	Standard
|	**As**	75	291528.5	0.3	**39.9652**	0.071	0.2	ug/L	25703	Standard
|	**As-1**	75	270960.9	0.7	**39.6610**	0.090	0.2	ug/L	1359	Standard
|	**Se**	77	18453.6	0.6	**40.3081**	0.441	1.1	ug/L	259	Standard
|	**Se -1**	78	82094.2	0.9	**39.1691**	0.740	1.9	ug/L	25820	Standard
|	**Br**	79	626.7	4.9				ug/L	715	Standard
|	**Se -2**	82	24263.6	0.7	**39.6796**	0.227	0.6	ug/L	617	Standard
	Kr	83	671.0	1.5				ug/L	646	Standard
	Y	89	1808204.0	0.4				ug/L	2084970	Standard
|	**Rh**	103	1139476.6	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	195170.8	0.1	**39.0827**	0.055	0.1	ug/L	229	KED
|	**Ni -4**	60	86647.6	0.1	**39.4765**	0.085	0.2	ug/L	94	KED
|	**Ni -5**	62	13260.2	0.8	**38.8212**	0.335	0.9	ug/L	14	KED
|	**As-2**	75	17711.6	1.8	**38.8919**	0.673	1.7	ug/L	8	KED
	Y-1	89	152702.5	0.6				ug/L	151628	KED
	Rh-1	103	328947.2	0.7				ug/L	379534	KED
|>	**Ge**	72	1270624.1	0.5				ug/L	1316182	Standard
|>	**In**	115	962571.0	0.5				ug/L	994105	Standard
|>	**Ge-1**	72	67698.7	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.778	
|	Ni -1	60	98.323	
|	Ni -2	62	98.541	
|	As	75	99.913	
|	As-1	75	99.152	
|	Se	77	100.770	
|	Se -1	78	97.923	
|	Br	79		
|	Se -2	82	99.199	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.707	
|	Ni -4	60	98.691	
|	Ni -5	62	97.053	
|	As-2	75	97.230	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		96.539
|>	In	115		96.828
|>	Ge-1	72		99.870

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 08:22:16
Report Date/Time: Monday, August 26, 2024 08:24:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.025

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	476121.8	0.4	**19.9245**	0.285	1.4	ug/L	-9343	Standard
|	**Ni -1**	60	195351.4	1.0	**19.5477**	0.117	0.6	ug/L	582	Standard
|	**Ni -2**	62	31992.8	0.9	**19.7732**	0.088	0.4	ug/L	3055	Standard
|	**As**	75	153159.3	0.8	**19.9891**	0.113	0.6	ug/L	25703	Standard
|	**As-1**	75	131823.2	0.7	**19.8696**	0.105	0.5	ug/L	1359	Standard
|	**Se**	77	9134.6	1.9	**20.3550**	0.204	1.0	ug/L	259	Standard
|	**Se -1**	78	52526.4	0.4	**19.9811**	0.253	1.3	ug/L	25820	Standard
|	**Br**	79	590.3	7.3				ug/L	715	Standard
|	**Se -2**	82	12316.3	0.5	**20.3442**	0.266	1.3	ug/L	617	Standard
	Kr	83	673.7	3.0				ug/L	646	Standard
	Y	89	1903198.9	6.4				ug/L	2084970	Standard
|	**Rh**	103	1105525.6	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	93882.6	0.2	**19.2569**	0.234	1.2	ug/L	229	KED
|	**Ni -4**	60	41630.6	0.5	**19.4160**	0.282	1.5	ug/L	94	KED
|	**Ni -5**	62	6372.4	1.9	**19.1095**	0.510	2.7	ug/L	14	KED
|	**As-2**	75	8612.6	1.4	**19.4179**	0.327	1.7	ug/L	8	KED
	Y-1	89	149044.8	0.7				ug/L	151628	KED
	Rh-1	103	317354.3	0.4				ug/L	379534	KED
|>	**Ge**	72	1228196.3	1.0				ug/L	1316182	Standard
|>	**In**	115	941359.4	0.1				ug/L	994105	Standard
|>	**Ge-1**	72	65915.4	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.623	
|	Ni -1	60	97.739	
|	Ni -2	62	98.866	
|	As	75	99.945	
|	As-1	75	99.348	
|	Se	77	101.775	
|	Se -1	78	99.906	
|	Br	79		
|	Se -2	82	101.721	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	96.285	
|	Ni -4	60	97.080	
|	Ni -5	62	95.548	
|	As-2	75	97.089	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		93.315
|>	In	115		94.694
|>	Ge-1	72		97.239

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 08:26:26
Report Date/Time: Monday, August 26, 2024 08:28:16
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.026

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5799.6	1.0	**0.0050**	0.002	31.1	ug/L	-9343	Standard
|	**Ni -1**	60	823.4	11.2	**-0.0195**	0.009	45.7	ug/L	582	Standard
|	**Ni -2**	62	2992.0	2.3	**-0.0060**	0.046	769.9	ug/L	3055	Standard
|	**As**	75	23490.8	1.7	**-0.2454**	0.044	18.1	ug/L	25703	Standard
|	**As-1**	75	1267.9	12.1	**0.0010**	0.022	2313.6	ug/L	1359	Standard
|	**Se**	77	241.3	6.9	**-0.0457**	0.037	80.8	ug/L	259	Standard
|	**Se -1**	78	23579.1	1.4	**-1.1733**	0.145	12.3	ug/L	25820	Standard
|	**Br**	79	651.0	1.5				ug/L	715	Standard
|	**Se -2**	82	567.0	5.9	**-0.0838**	0.055	65.9	ug/L	617	Standard
	Kr	83	665.7	2.1				ug/L	646	Standard
	Y	89	1773687.2	0.3				ug/L	2084970	Standard
|	**Rh**	103	1290609.0	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	326.1	12.1	**-0.0395**	0.007	18.8	ug/L	229	KED
|	**Ni -4**	60	137.0	10.0	**-0.0672**	0.006	9.3	ug/L	94	KED
|	**Ni -5**	62	21.7	17.5	**-0.0439**	0.011	26.0	ug/L	14	KED
|	**As-2**	75	10.7	37.9	**0.0094**	0.009	92.0	ug/L	8	KED
	Y-1	89	152429.6	1.1				ug/L	151628	KED
	Rh-1	103	368348.3	0.9				ug/L	379534	KED
\>	**Ge**	72	1261715.4	0.5				ug/L	1316182	Standard
\>	**In**	115	963757.9	1.2				ug/L	994105	Standard
\>	**Ge-1**	72	67767.0	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
\>	Ge	72		95.862
\>	In	115		96.947
\>	Ge-1	72		99.970

Quantitative Analysis - Summary Report

Sample ID: MB0826D1 2X

Sample Date/Time: Monday, August 26, 2024 08:29:47
Report Date/Time: Monday, August 26, 2024 08:31:37
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\MB0826D1 2X.027

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5290.2	4.4	**0.0248**	0.010	40.9	ug/L	-9343	Standard
|	**Ni -1**	60	915.4	7.2	**-0.0102**	0.006	61.0	ug/L	582	Standard
|	**Ni -2**	62	2965.0	1.3	**-0.0179**	0.034	190.4	ug/L	3055	Standard
|	**As**	75	23444.2	0.5	**-0.2415**	0.012	4.8	ug/L	25703	Standard
|	**As-1**	75	1144.8	7.2	**-0.0168**	0.011	67.9	ug/L	1359	Standard
|	**Se**	77	245.7	4.4	**-0.0344**	0.023	65.8	ug/L	259	Standard
|	**Se -1**	78	23596.1	0.3	**-1.1111**	0.041	3.7	ug/L	25820	Standard
|	**Br**	79	649.3	2.8				ug/L	715	Standard
|	**Se -2**	82	543.7	6.4	**-0.1205**	0.056	46.9	ug/L	617	Standard
	Kr	83	668.7	4.0				ug/L	646	Standard
	Y	89	1749067.8	0.4				ug/L	2084970	Standard
|	**Rh**	103	1282469.6	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	292.6	2.6	**-0.0460**	0.001	2.6	ug/L	229	KED
|	**Ni -4**	60	126.0	4.2	**-0.0721**	0.002	3.1	ug/L	94	KED
|	**Ni -5**	62	17.7	11.8	**-0.0555**	0.006	10.7	ug/L	14	KED
|	**As-2**	75	8.3	54.1	**0.0044**	0.010	223.2	ug/L	8	KED
	Y-1	89	153900.9	0.2				ug/L	151628	KED
	Rh-1	103	370690.1	0.1				ug/L	379534	KED
|>	**Ge**	72	1257903.2	0.5				ug/L	1316182	Standard
|>	**In**	115	952812.3	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	67567.4	1.4				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		95.572
|>	In	115		95.846
|>	Ge-1	72		99.676

Quantitative Analysis - Summary Report

Sample ID: SB0826D1 2X

Sample Date/Time: Monday, August 26, 2024 08:37:20
Report Date/Time: Monday, August 26, 2024 08:39:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\SB0826D1 2X.028

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	960184.6	0.8	**40.0308**	0.391	1.0	ug/L	-9343	Standard
|	**Ni -1**	60	388507.6	0.1	**39.0682**	0.150	0.4	ug/L	582	Standard
|	**Ni -2**	62	60530.0	0.3	**39.2811**	0.078	0.2	ug/L	3055	Standard
|	**As**	75	282478.9	0.5	**40.1764**	0.065	0.2	ug/L	25703	Standard
|	**As-1**	75	262386.3	0.7	**39.8287**	0.182	0.5	ug/L	1359	Standard
|	**Se**	77	17820.8	0.4	**40.3665**	0.044	0.1	ug/L	259	Standard
|	**Se -1**	78	79595.8	0.3	**39.4776**	0.315	0.8	ug/L	25820	Standard
|	**Br**	79	607.7	4.8				ug/L	715	Standard
|	**Se -2**	82	23465.9	0.8	**39.7989**	0.300	0.8	ug/L	617	Standard
	Kr	83	720.7	3.2				ug/L	646	Standard
	Y	89	1975437.1	0.3				ug/L	2084970	Standard
|	**Rh**	103	1136354.4	1.2				ug/L	1339953	Standard
|	**Ni -3**	58	187660.7	1.1	**38.4014**	0.643	1.7	ug/L	229	KED
|	**Ni -4**	60	82935.4	1.4	**38.6117**	0.760	2.0	ug/L	94	KED
|	**Ni -5**	62	12812.4	1.8	**38.3298**	0.692	1.8	ug/L	14	KED
|	**As-2**	75	17327.2	0.8	**38.8798**	0.163	0.4	ug/L	8	KED
	Y-1	89	150394.2	1.1				ug/L	151628	KED
	Rh-1	103	328383.3	1.1				ug/L	379534	KED
| >	**Ge**	72	1225259.1	0.3				ug/L	1316182	Standard
| >	**In**	115	925385.3	1.7				ug/L	994105	Standard
| >	**Ge-1**	72	66250.3	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		93.092
| >	In	115		93.087
| >	Ge-1	72		97.733

Quantitative Analysis - Summary Report

Sample ID: 08-224-01d 10X

Sample Date/Time: Monday, August 26, 2024 08:41:29
Report Date/Time: Monday, August 26, 2024 08:43:18
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-01d 10X.029

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	7947.7	0.4	**0.6239**	0.003	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	12239.9	1.6	**1.3440**	0.012	0.9	ug/L	582	Standard
|	**Ni -2**	62	411794.7	2.7	**326.6709**	12.658	3.9	ug/L	3055	Standard
|	**As**	75	30448.9	0.9	**1.7509**	0.012	0.7	ug/L	25703	Standard
|	**As-1**	75	11764.3	1.0	**1.9129**	0.011	0.6	ug/L	1359	Standard
|	**Se**	77	23449.0	7.4	**62.4484**	3.987	6.4	ug/L	259	Standard
|	**Se -1**	78	31263.2	1.0	**8.6430**	0.257	3.0	ug/L	25820	Standard
|	**Br**	79	3651852.4	1.2				ug/L	715	Standard
|	**Se -2**	82	4981.9	1.8	**9.1060**	0.216	2.4	ug/L	617	Standard
	Kr	83	3732.5	2.4				ug/L	646	Standard
	Y	89	1710372.6	0.5				ug/L	2084970	Standard
|	**Rh**	103	1085431.1	1.0				ug/L	1339953	Standard
|	**Ni -3**	58	2817.5	0.3	**0.5180**	0.021	4.0	ug/L	229	KED
|	**Ni -4**	60	1237.4	0.9	**0.4928**	0.015	2.9	ug/L	94	KED
|	**Ni -5**	62	251.0	3.5	**0.7033**	0.008	1.1	ug/L	14	KED
|	**As-2**	75	248.0	6.6	**0.5853**	0.031	5.3	ug/L	8	KED
	Y-1	89	135059.6	2.2				ug/L	151628	KED
	Rh-1	103	330762.4	1.7				ug/L	379534	KED
| >	**Ge**	72	1046958.3	1.1				ug/L	1316182	Standard
| >	**In**	115	778511.3	1.2				ug/L	994105	Standard
| >	**Ge-1**	72	61528.0	3.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		79.545
| >	In	115		78.313
| >	Ge-1	72		90.766

Quantitative Analysis - Summary Report

Sample ID: 08-224-02d 10X

Sample Date/Time: Monday, August 26, 2024 08:45:38
Report Date/Time: Monday, August 26, 2024 08:47:27
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-02d 10X.030

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4955.6	1.9	**0.4888**	0.006	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	14247.8	1.5	**1.6514**	0.021	1.3	ug/L	582	Standard
|	**Ni -2**	62	826129.6	3.3	**684.8733**	25.062	3.7	ug/L	3055	Standard
|	**As**	75	40505.6	4.6	**3.8938**	0.395	10.1	ug/L	25703	Standard
|	**As-1**	75	17124.3	8.8	**2.9989**	0.299	10.0	ug/L	1359	Standard
|	**Se**	77	65530.7	3.2	**183.0476**	6.269	3.4	ug/L	259	Standard
|	**Se -1**	78	45554.2	3.3	**22.2384**	1.382	6.2	ug/L	25820	Standard
|	**Br**	79	6609892.1	1.2				ug/L	715	Standard
|	**Se -2**	82	8767.7	1.1	**17.5666**	0.314	1.8	ug/L	617	Standard
	Kr	83	13256.5	2.5				ug/L	646	Standard
	Y	89	1676011.9	0.6				ug/L	2084970	Standard
|	**Rh**	103	1048538.3	0.4				ug/L	1339953	Standard
|	**Ni -3**	58	1380.2	2.0	**0.1986**	0.007	3.8	ug/L	229	KED
|	**Ni -4**	60	619.0	2.7	**0.1801**	0.008	4.6	ug/L	94	KED
|	**Ni -5**	62	247.7	2.7	**0.6889**	0.026	3.8	ug/L	14	KED
|	**As-2**	75	144.3	10.6	**0.3332**	0.036	10.9	ug/L	8	KED
	Y-1	89	134425.5	0.3				ug/L	151628	KED
	Rh-1	103	322627.5	0.4				ug/L	379534	KED
|>	**Ge**	72	1004813.0	0.6				ug/L	1316182	Standard
|>	**In**	115	762493.8	0.4				ug/L	994105	Standard
|>	**Ge-1**	72	61817.8	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.343
|>	In	115		76.702
|>	Ge-1	72		91.194

Quantitative Analysis - Summary Report

Sample ID: 08-224-03d 10X

Sample Date/Time: Monday, August 26, 2024 08:49:47
Report Date/Time: Monday, August 26, 2024 08:51:36
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-03d 10X.031

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	3432.3	9.0	**0.4090**	0.016	3.8	ug/L	-9343	Standard
|	**Ni -1**	60	13239.8	0.6	**1.5010**	0.012	0.8	ug/L	582	Standard
|	**Ni -2**	62	1401436.3	6.5	**1144.1641**	76.367	6.7	ug/L	3055	Standard
|	**As**	75	53447.6	4.3	**6.1842**	0.453	7.3	ug/L	25703	Standard
|	**As-1**	75	15884.1	10.1	**2.7193**	0.297	10.9	ug/L	1359	Standard
|	**Se**	77	68448.9	1.1	**188.0873**	2.502	1.3	ug/L	259	Standard
|	**Se -1**	78	59443.5	3.9	**33.5333**	2.084	6.2	ug/L	25820	Standard
|	**Br**	79	6539691.5	1.7				ug/L	715	Standard
|	**Se -2**	82	8673.3	2.1	**17.0654**	0.424	2.5	ug/L	617	Standard
	Kr	83	16175.8	3.3				ug/L	646	Standard
	Y	89	1718704.7	0.4				ug/L	2084970	Standard
|	**Rh**	103	1077500.8	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	1025.7	4.4	**0.1193**	0.007	5.8	ug/L	229	KED
|	**Ni -4**	60	482.0	2.5	**0.1101**	0.004	3.7	ug/L	94	KED
|	**Ni -5**	62	372.7	5.3	**1.0839**	0.060	5.5	ug/L	14	KED
|	**As-2**	75	136.3	8.9	**0.3122**	0.029	9.4	ug/L	8	KED
	Y-1	89	134605.6	1.7				ug/L	151628	KED
	Rh-1	103	322641.6	1.5				ug/L	379534	KED
|>	**Ge**	72	1021485.3	0.3				ug/L	1316182	Standard
|>	**In**	115	785329.5	1.1				ug/L	994105	Standard
|>	**Ge-1**	72	62169.0	1.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		77.610
|>	In	115		78.999
|>	Ge-1	72		91.712

Quantitative Analysis - Summary Report

Sample ID: 08-224-04d 10X

Sample Date/Time: Monday, August 26, 2024 08:53:56
Report Date/Time: Monday, August 26, 2024 08:55:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04d 10X.032

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	12797.7	19.0	**0.8037**	0.101	12.6	ug/L	-9343	Standard
|	**Ni -1**	60	4364.7	2.7	**0.3695**	0.008	2.2	ug/L	582	Standard
|	**Ni -2**	62	415976.3	10.2	**300.4940**	27.640	9.2	ug/L	3055	Standard
|	**As**	75	51342.2	2.4	**4.7329**	0.143	3.0	ug/L	25703	Standard
|	**As-1**	75	12982.3	1.9	**1.9266**	0.057	2.9	ug/L	1359	Standard
|	**Se**	77	11031.6	8.8	**26.4562**	2.112	8.0	ug/L	259	Standard
|	**Se -1**	78	41853.6	2.7	**14.4320**	0.587	4.1	ug/L	25820	Standard
|	**Br**	79	288286.8	0.2				ug/L	715	Standard
|	**Se -2**	82	1432.7	2.0	**1.6197**	0.076	4.7	ug/L	617	Standard
	Kr	83	1842.5	8.2				ug/L	646	Standard
	Y	89	1846170.5	0.8				ug/L	2084970	Standard
|	**Rh**	103	1221532.5	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	3379.0	0.2	**0.6563**	0.005	0.8	ug/L	229	KED
|	**Ni -4**	60	705.7	3.6	**0.2321**	0.013	5.7	ug/L	94	KED
|	**Ni -5**	62	169.0	6.0	**0.4493**	0.036	8.0	ug/L	14	KED
|	**As-2**	75	760.4	3.5	**1.8596**	0.054	2.9	ug/L	8	KED
	Y-1	89	136164.9	0.7				ug/L	151628	KED
	Rh-1	103	345313.8	0.9				ug/L	379534	KED
|>	**Ge**	72	1148066.8	1.1				ug/L	1316182	Standard
|>	**In**	115	849077.0	1.8				ug/L	994105	Standard
|>	**Ge-1**	72	60344.5	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		87.227
|>	In	115		85.411
|>	Ge-1	72		89.021

Quantitative Analysis - Summary Report

Sample ID: 08-224-05d 10X

Sample Date/Time: Monday, August 26, 2024 08:58:05
Report Date/Time: Monday, August 26, 2024 08:59:55
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-05d 10X.033

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	3738.0	32.6	**0.4215**	0.058	13.7	ug/L	-9343	Standard
|	**Ni -1**	60	13731.9	1.9	**1.5399**	0.018	1.2	ug/L	582	Standard
|	**Ni -2**	62	1448317.5	10.9	**1166.9089**	113.493	9.7	ug/L	3055	Standard
|	**As**	75	68035.5	4.0	**8.7479**	0.363	4.2	ug/L	25703	Standard
|	**As-1**	75	15708.4	10.1	**2.6537**	0.320	12.0	ug/L	1359	Standard
|	**Se**	77	68769.5	2.1	**186.6124**	1.842	1.0	ug/L	259	Standard
|	**Se -1**	78	74727.6	5.0	**45.8621**	2.437	5.3	ug/L	25820	Standard
|	**Br**	79	6737455.1	0.7				ug/L	715	Standard
|	**Se -2**	82	8900.1	1.8	**17.3127**	0.540	3.1	ug/L	617	Standard
	Kr	83	18123.3	11.2				ug/L	646	Standard
	Y	89	1757119.9	0.5				ug/L	2084970	Standard
|	**Rh**	103	1096473.9	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	888.3	0.5	**0.0849**	0.001	1.1	ug/L	229	KED
|	**Ni -4**	60	399.3	1.9	**0.0644**	0.004	6.1	ug/L	94	KED
|	**Ni -5**	62	399.0	3.1	**1.1389**	0.038	3.3	ug/L	14	KED
|	**As-2**	75	123.0	7.8	**0.2735**	0.022	8.1	ug/L	8	KED
	Y-1	89	137612.0	0.5				ug/L	151628	KED
	Rh-1	103	326483.7	0.6				ug/L	379534	KED
|>	**Ge**	72	1034265.5	1.2				ug/L	1316182	Standard
|>	**In**	115	791236.9	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	63627.4	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.581
|>	In	115		79.593
|>	Ge-1	72		93.864

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dD 10X

Sample Date/Time: Monday, August 26, 2024 09:02:16
Report Date/Time: Monday, August 26, 2024 09:04:05
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dD 10X.034

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	14080.6	6.0	**0.8762**	0.030	3.4	ug/L	-9343	Standard
|	**Ni -1**	60	4736.8	3.9	**0.4219**	0.014	3.4	ug/L	582	Standard
|	**Ni -2**	62	740049.3	6.8	**549.4461**	31.008	5.6	ug/L	3055	Standard
|	**As**	75	63119.4	2.6	**6.9465**	0.204	2.9	ug/L	25703	Standard
|	**As-1**	75	14051.5	3.6	**2.1570**	0.105	4.9	ug/L	1359	Standard
|	**Se**	77	11384.2	9.8	**27.9996**	2.477	8.8	ug/L	259	Standard
|	**Se -1**	78	53053.7	3.4	**23.9941**	0.991	4.1	ug/L	25820	Standard
|	**Br**	79	319631.1	1.6				ug/L	715	Standard
|	**Se -2**	82	1642.4	5.9	**2.0827**	0.158	7.6	ug/L	617	Standard
	Kr	83	3227.0	12.2				ug/L	646	Standard
	Y	89	1806168.2	0.1				ug/L	2084970	Standard
|	**Rh**	103	1192546.2	0.2				ug/L	1339953	Standard
|	**Ni -3**	58	3617.6	1.4	**0.7165**	0.012	1.7	ug/L	229	KED
|	**Ni -4**	60	763.4	3.0	**0.2647**	0.009	3.6	ug/L	94	KED
|	**Ni -5**	62	200.3	4.3	**0.5577**	0.032	5.8	ug/L	14	KED
|	**As-2**	75	760.0	3.3	**1.8736**	0.049	2.6	ug/L	8	KED
	Y-1	89	136270.2	0.9				ug/L	151628	KED
	Rh-1	103	340305.6	0.5				ug/L	379534	KED
|>	**Ge**	72	1120596.8	1.3				ug/L	1316182	Standard
|>	**In**	115	829329.3	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	59870.9	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		85.140
|>	In	115		83.425
|>	Ge-1	72		88.322

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dL 50X

Sample Date/Time: Monday, August 26, 2024 09:06:25
Report Date/Time: Monday, August 26, 2024 09:08:14
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dL 50X.035

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3031.8	6.8	**0.0730**	0.012	16.0	ug/L	-9343	Standard
|	**Ni -1**	60	1220.1	2.6	**0.0617**	0.004	7.2	ug/L	582	Standard
|	**Ni -2**	62	319370.4	2.4	**284.5287**	7.290	2.6	ug/L	3055	Standard
|	**As**	75	38248.0	0.6	**4.0380**	0.037	0.9	ug/L	25703	Standard
|	**As-1**	75	3796.9	4.0	**0.5751**	0.028	4.9	ug/L	1359	Standard
|	**Se**	77	4107.3	5.3	**11.8356**	0.679	5.7	ug/L	259	Standard
|	**Se -1**	78	36827.7	0.6	**17.1536**	0.258	1.5	ug/L	25820	Standard
|	**Br**	79	89703.1	0.9				ug/L	715	Standard
|	**Se -2**	82	987.0	3.3	**1.2184**	0.078	6.4	ug/L	617	Standard
	Kr	83	1099.0	2.8				ug/L	646	Standard
	Y	89	1470557.4	0.2				ug/L	2084970	Standard
|	**Rh**	103	1013660.9	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	729.2	7.5	**0.0938**	0.015	16.3	ug/L	229	KED
|	**Ni -4**	60	165.3	6.1	**-0.0273**	0.006	22.1	ug/L	94	KED
|	**Ni -5**	62	85.0	13.9	**0.2311**	0.047	20.2	ug/L	14	KED
|	**As-2**	75	153.3	7.5	**0.4430**	0.033	7.5	ug/L	8	KED
	Y-1	89	112173.7	0.4				ug/L	151628	KED
	Rh-1	103	286610.2	0.2				ug/L	379534	KED
|>	**Ge**	72	931170.3	0.3				ug/L	1316182	Standard
|>	**In**	115	689809.5	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	49899.7	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		70.748
|>	In	115		69.390
|>	Ge-1	72		73.612

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dMS 10X

Sample Date/Time: Monday, August 26, 2024 09:10:35
Report Date/Time: Monday, August 26, 2024 09:12:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dMS 10X.036

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	800688.3	1.1	**39.9009**	0.174	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	320031.8	0.9	**38.4661**	0.037	0.1	ug/L	582	Standard
|	**Ni -2**	62	307271.3	2.1	**248.4119**	3.966	1.6	ug/L	3055	Standard
|	**As**	75	270423.8	0.1	**46.5240**	0.358	0.8	ug/L	25703	Standard
|	**As-1**	75	241177.6	0.2	**43.7803**	0.330	0.8	ug/L	1359	Standard
|	**Se**	77	19587.1	0.5	**53.2187**	0.482	0.9	ug/L	259	Standard
|	**Se -1**	78	84442.8	0.9	**54.7827**	1.142	2.1	ug/L	25820	Standard
|	**Br**	79	263407.6	0.4				ug/L	715	Standard
|	**Se -2**	82	21783.3	1.1	**44.2801**	0.877	2.0	ug/L	617	Standard
	Kr	83	902.0	4.3				ug/L	646	Standard
	Y	89	1665185.6	0.3				ug/L	2084970	Standard
|	**Rh**	103	1110073.4	0.9				ug/L	1339953	Standard
|	**Ni -3**	58	155944.5	1.1	**38.1833**	0.320	0.8	ug/L	229	KED
|	**Ni -4**	60	68593.0	0.9	**38.2101**	0.236	0.6	ug/L	94	KED
|	**Ni -5**	62	10529.2	1.3	**37.6911**	0.388	1.0	ug/L	14	KED
|	**As-2**	75	15776.7	1.3	**42.3636**	0.436	1.0	ug/L	8	KED
	Y-1	89	127575.8	0.8				ug/L	151628	KED
	Rh-1	103	316419.0	0.9				ug/L	379534	KED
|>	**Ge**	72	1025046.6	0.8				ug/L	1316182	Standard
|>	**In**	115	764691.4	0.4				ug/L	994105	Standard
|>	**Ge-1**	72	55362.1	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		77.880
|>	In	115		76.923
|>	Ge-1	72		81.670

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 09:14:46
Report Date/Time: Monday, August 26, 2024 09:16:35
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.037

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	896159.5	0.6	**39.2929**	0.307	0.8	ug/L	-9343	Standard
|	**Ni -1**	60	368593.3	1.1	**38.9773**	0.477	1.2	ug/L	582	Standard
|	**Ni -2**	62	229897.6	2.7	**162.8264**	3.830	2.4	ug/L	3055	Standard
|	**As**	75	275919.8	0.5	**41.3706**	0.142	0.3	ug/L	25703	Standard
|	**As-1**	75	250110.8	0.2	**39.9242**	0.056	0.1	ug/L	1359	Standard
|	**Se**	77	18536.4	0.9	**44.2078**	0.376	0.9	ug/L	259	Standard
|	**Se -1**	78	83501.3	1.0	**45.3644**	0.548	1.2	ug/L	25820	Standard
|	**Br**	79	24067.3	3.1				ug/L	715	Standard
|	**Se -2**	82	22761.1	0.4	**40.6161**	0.320	0.8	ug/L	617	Standard
	Kr	83	697.4	3.4				ug/L	646	Standard
	Y	89	1883808.6	1.6				ug/L	2084970	Standard
|	**Rh**	103	1098168.9	0.2				ug/L	1339953	Standard
|	**Ni -3**	58	173651.7	0.8	**37.5663**	0.478	1.3	ug/L	229	KED
|	**Ni -4**	60	76546.5	0.4	**37.6731**	0.357	0.9	ug/L	94	KED
|	**Ni -5**	62	11835.2	0.2	**37.4318**	0.269	0.7	ug/L	14	KED
|	**As-2**	75	16321.7	0.9	**38.7204**	0.215	0.6	ug/L	8	KED
	Y-1	89	145166.9	0.4				ug/L	151628	KED
	Rh-1	103	307950.1	0.2				ug/L	379534	KED
|>	**Ge**	72	1165166.3	0.4				ug/L	1316182	Standard
|>	**In**	115	893945.9	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	62661.8	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	98.232	
|	Ni -1	60	97.443	
|	Ni -2	62	407.066	
|	As	75	103.426	
|	As-1	75	99.810	
|	Se	77	110.519	
|	Se -1	78	113.411	
|	Br	79		
|	Se -2	82	101.540	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	93.916	
|	Ni -4	60	94.183	
|	Ni -5	62	93.580	
|	As-2	75	96.801	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		88.526
|>	In	115		89.925
|>	Ge-1	72		92.439

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 09:18:56
Report Date/Time: Monday, August 26, 2024 09:20:45
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.038

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	410926.9	0.3	**19.3693**	0.060	0.3	ug/L	-9343	Standard
|	**Ni -1**	60	171461.2	0.7	**19.3190**	0.129	0.7	ug/L	582	Standard
|	**Ni -2**	62	163981.2	1.2	**123.6065**	1.507	1.2	ug/L	3055	Standard
|	**As**	75	142415.9	0.3	**21.1088**	0.076	0.4	ug/L	25703	Standard
|	**As-1**	75	118341.3	0.8	**20.0881**	0.172	0.9	ug/L	1359	Standard
|	**Se**	77	9225.0	0.7	**23.2297**	0.151	0.6	ug/L	259	Standard
|	**Se -1**	78	51723.5	0.2	**24.0696**	0.057	0.2	ug/L	25820	Standard
|	**Br**	79	17738.3	1.1				ug/L	715	Standard
|	**Se -2**	82	10925.5	2.0	**20.3195**	0.422	2.1	ug/L	617	Standard
	Kr	83	611.3	2.9				ug/L	646	Standard
	Y	89	1780967.9	0.5				ug/L	2084970	Standard
|	**Rh**	103	991912.9	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	82202.3	0.6	**18.4671**	0.105	0.6	ug/L	229	KED
|	**Ni -4**	60	36542.0	0.9	**18.6653**	0.190	1.0	ug/L	94	KED
|	**Ni -5**	62	5601.1	0.8	**18.3955**	0.182	1.0	ug/L	14	KED
|	**As-2**	75	7931.2	0.2	**19.5902**	0.175	0.9	ug/L	8	KED
	Y-1	89	140017.2	0.7				ug/L	151628	KED
	Rh-1	103	285903.4	1.0				ug/L	379534	KED
|>	**Ge**	72	1090677.6	0.0				ug/L	1316182	Standard
|>	**In**	115	843059.4	0.5				ug/L	994105	Standard
|>	**Ge-1**	72	60166.1	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	96.847	
|	Ni -1	60	96.595	
|	Ni -2	62	618.033	
|	As	75	105.544	
|	As-1	75	100.440	
|	Se	77	116.149	
|	Se -1	78	120.348	
|	Br	79		
|	Se -2	82	101.597	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	92.335	
|	Ni -4	60	93.327	
|	Ni -5	62	91.977	
|	As-2	75	97.951	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.867
|>	In	115		84.806
|>	Ge-1	72		88.757

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 09:23:07
Report Date/Time: Monday, August 26, 2024 09:24:56
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.039

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-6301.4	0.9	**-0.0529**	0.003	5.2	ug/L	-9343	Standard
|	**Ni -1**	60	357.7	5.3	**-0.0599**	0.002	3.4	ug/L	582	Standard
|	**Ni -2**	62	117083.5	0.5	**87.0587**	0.725	0.8	ug/L	3055	Standard
|	**As**	75	24362.9	0.8	**0.4341**	0.020	4.6	ug/L	25703	Standard
|	**As-1**	75	1083.4	10.9	**-0.0025**	0.020	784.1	ug/L	1359	Standard
|	**Se**	77	896.0	4.6	**1.7128**	0.113	6.6	ug/L	259	Standard
|	**Se -1**	78	24713.0	0.4	**2.1750**	0.085	3.9	ug/L	25820	Standard
|	**Br**	79	14616.8	1.6				ug/L	715	Standard
|	**Se -2**	82	599.0	4.9	**0.1210**	0.060	50.0	ug/L	617	Standard
	Kr	83	559.7	5.3				ug/L	646	Standard
	Y	89	1790044.6	0.6				ug/L	2084970	Standard
|	**Rh**	103	1145569.9	0.9				ug/L	1339953	Standard
|	**Ni -3**	58	143.7	12.3	**-0.0731**	0.004	5.5	ug/L	229	KED
|	**Ni -4**	60	73.3	8.9	**-0.0929**	0.003	3.5	ug/L	94	KED
|	**Ni -5**	62	28.7	2.0	**-0.0147**	0.002	13.0	ug/L	14	KED
|	**As-2**	75	6.7	17.3	**0.0022**	0.003	129.8	ug/L	8	KED
	Y-1	89	141780.1	0.6				ug/L	151628	KED
	Rh-1	103	327871.5	0.5				ug/L	379534	KED
|>	**Ge**	72	1098402.5	0.4				ug/L	1316182	Standard
|>	**In**	115	852570.7	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	61408.4	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		83.454
|>	In	115		85.763
|>	Ge-1	72		90.590

Quantitative Analysis - Summary Report

Sample ID: 08-224-04dMSD 10X

Sample Date/Time: Monday, August 26, 2024 09:27:34
Report Date/Time: Monday, August 26, 2024 09:29:23
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04dMSD 10X.040

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	742401.8	1.4	**38.2907**	0.579	1.5	ug/L	-9343	Standard
|	**Ni -1**	60	302339.0	0.8	**37.5982**	0.296	0.8	ug/L	582	Standard
|	**Ni -2**	62	178603.9	0.7	**148.6140**	0.764	0.5	ug/L	3055	Standard
|	**As**	75	249947.8	0.4	**44.3257**	0.093	0.2	ug/L	25703	Standard
|	**As-1**	75	227882.6	0.3	**42.7963**	0.018	0.0	ug/L	1359	Standard
|	**Se**	77	16813.9	0.7	**47.2024**	0.423	0.9	ug/L	259	Standard
|	**Se -1**	78	72916.3	0.6	**47.0668**	0.289	0.6	ug/L	25820	Standard
|	**Br**	79	205780.8	0.4				ug/L	715	Standard
|	**Se -2**	82	20061.1	1.1	**42.1407**	0.483	1.1	ug/L	617	Standard
	Kr	83	607.3	1.4				ug/L	646	Standard
	Y	89	1603380.9	0.9				ug/L	2084970	Standard
|	**Rh**	103	1085030.4	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	142541.5	0.9	**35.8664**	0.350	1.0	ug/L	229	KED
|	**Ni -4**	60	62791.7	0.7	**35.9444**	0.376	1.0	ug/L	94	KED
|	**Ni -5**	62	9771.7	0.6	**35.9500**	0.531	1.5	ug/L	14	KED
|	**As-2**	75	14930.1	0.2	**41.2099**	0.756	1.8	ug/L	8	KED
	Y-1	89	124507.2	0.7				ug/L	151628	KED
	Rh-1	103	304560.1	1.0				ug/L	379534	KED
|>	**Ge**	72	990674.9	0.2				ug/L	1316182	Standard
|>	**In**	115	748130.0	0.7				ug/L	994105	Standard
|>	**Ge-1**	72	53870.1	1.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		75.269
|>	In	115		75.257
|>	Ge-1	72		79.469

Quantitative Analysis - Summary Report

Sample ID: MB0826WM1 2X

Sample Date/Time: Monday, August 26, 2024 09:31:43
Report Date/Time: Monday, August 26, 2024 09:33:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\MB0826WM1 2X.041

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-7077.4	3.2	**-0.1179**	0.011	9.5	ug/L	-9343	Standard
|	**Ni -1**	60	240.3	7.9	**-0.0707**	0.002	3.4	ug/L	582	Standard
|	**Ni -2**	62	104079.4	0.9	**84.2231**	1.073	1.3	ug/L	3055	Standard
|	**As**	75	23763.4	0.4	**0.6978**	0.006	0.8	ug/L	25703	Standard
|	**As-1**	75	959.8	15.9	**-0.0089**	0.028	317.1	ug/L	1359	Standard
|	**Se**	77	866.0	5.4	**1.8337**	0.138	7.5	ug/L	259	Standard
|	**Se -1**	78	24085.6	0.4	**3.3896**	0.039	1.2	ug/L	25820	Standard
|	**Br**	79	12795.1	1.5				ug/L	715	Standard
|	**Se -2**	82	538.7	5.7	**0.0970**	0.066	68.4	ug/L	617	Standard
	Kr	83	550.3	4.7				ug/L	646	Standard
	Y	89	1630543.3	0.2				ug/L	2084970	Standard
|	**Rh**	103	1144781.7	0.7				ug/L	1339953	Standard
|	**Ni -3**	58	91.8	8.8	**-0.0827**	0.002	2.1	ug/L	229	KED
|	**Ni -4**	60	31.0	11.2	**-0.1127**	0.002	1.9	ug/L	94	KED
|	**Ni -5**	62	30.7	13.2	**0.0010**	0.015	1567.5	ug/L	14	KED
|	**As-2**	75	5.7	27.0	**0.0010**	0.004	388.5	ug/L	8	KED
	Y-1	89	128899.6	0.4				ug/L	151628	KED
	Rh-1	103	325873.6	0.5				ug/L	379534	KED
|>	**Ge**	72	1008533.4	0.4				ug/L	1316182	Standard
|>	**In**	115	777013.6	0.1				ug/L	994105	Standard
|>	**Ge-1**	72	56259.6	1.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.626
|>	In	115		78.162
|>	Ge-1	72		82.994

Quantitative Analysis - Summary Report

Sample ID: SB0826WM1 2X

Sample Date/Time: Monday, August 26, 2024 09:43:42
Report Date/Time: Monday, August 26, 2024 09:45:30
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\SB0826WM1 2X.043

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1156047.6	0.6	**51.8836**	0.645	1.2	ug/L	-9343	Standard
|	**Ni -1**	60	468933.9	0.2	**50.8618**	0.352	0.7	ug/L	582	Standard
|	**Ni -2**	62	290965.4	2.8	**211.8696**	6.992	3.3	ug/L	3055	Standard
|	**As**	75	345244.9	0.5	**54.1359**	0.226	0.4	ug/L	25703	Standard
|	**As-1**	75	318008.4	0.6	**52.0912**	0.083	0.2	ug/L	1359	Standard
|	**Se**	77	27714.5	0.5	**68.0669**	0.599	0.9	ug/L	259	Standard
|	**Se -1**	78	101200.5	0.4	**60.6253**	0.937	1.5	ug/L	25820	Standard
|	**Br**	79	18840.4	3.7				ug/L	715	Standard
|	**Se -2**	82	29172.1	0.8	**53.6887**	0.614	1.1	ug/L	617	Standard
	Kr	83	1522.7	4.8				ug/L	646	Standard
	Y	89	1810568.6	1.5				ug/L	2084970	Standard
|	**Rh**	103	1246429.4	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	220864.1	1.6	**48.9392**	0.529	1.1	ug/L	229	KED
|	**Ni -4**	60	97477.1	1.3	**49.1470**	0.338	0.7	ug/L	94	KED
|	**Ni -5**	62	14934.1	0.6	**48.3820**	0.185	0.4	ug/L	14	KED
|	**As-2**	75	20612.2	0.7	**50.0614**	0.107	0.2	ug/L	8	KED
	Y-1	89	137082.0	1.9				ug/L	151628	KED
	Rh-1	103	351396.5	1.8				ug/L	379534	KED
| >	**Ge**	72	1136686.8	0.8				ug/L	1316182	Standard
| >	**In**	115	839145.9	0.9				ug/L	994105	Standard
| >	**Ge-1**	72	61211.9	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		86.362
| >	In	115		84.412
| >	Ge-1	72		90.300

Quantitative Analysis - Summary Report

Sample ID: 08-013-05a 2X

Sample Date/Time: Monday, August 26, 2024 09:47:50
Report Date/Time: Monday, August 26, 2024 09:49:39
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05a 2X.044

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3304.9	4.7	**0.0842**	0.007	8.5	ug/L	-9343	Standard
|	**Ni -1**	60	3053.3	1.8	**0.2464**	0.004	1.7	ug/L	582	Standard
|	**Ni -2**	62	171552.3	3.3	**129.7117**	5.085	3.9	ug/L	3055	Standard
|	**As**	75	31959.1	1.6	**1.8052**	0.123	6.8	ug/L	25703	Standard
|	**As-1**	75	4968.3	6.1	**0.6665**	0.057	8.6	ug/L	1359	Standard
|	**Se**	77	4318.0	3.3	**10.5884**	0.428	4.0	ug/L	259	Standard
|	**Se -1**	78	28576.2	0.8	**5.4777**	0.304	5.5	ug/L	25820	Standard
|	**Br**	79	29168.7	0.5				ug/L	715	Standard
|	**Se -2**	82	664.3	0.8	**0.2597**	0.012	4.6	ug/L	617	Standard
	Kr	83	995.7	0.7				ug/L	646	Standard
	Y	89	1745999.3	0.9				ug/L	2084970	Standard
|	**Rh**	103	1183030.0	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	806.6	3.1	**0.0791**	0.004	5.1	ug/L	229	KED
|	**Ni -4**	60	336.3	3.5	**0.0449**	0.008	17.5	ug/L	94	KED
|	**Ni -5**	62	71.3	18.6	**0.1308**	0.046	35.3	ug/L	14	KED
|	**As-2**	75	288.3	6.5	**0.7054**	0.040	5.7	ug/L	8	KED
	Y-1	89	134961.2	0.9				ug/L	151628	KED
	Rh-1	103	336969.0	1.8				ug/L	379534	KED
|>	**Ge**	72	1088303.2	0.6				ug/L	1316182	Standard
|>	**In**	115	819333.5	0.7				ug/L	994105	Standard
|>	**Ge-1**	72	59587.0	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.686
|>	In	115		82.419
|>	Ge-1	72		87.903

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aD 2X

Sample Date/Time: Monday, August 26, 2024 09:51:59
Report Date/Time: Monday, August 26, 2024 09:53:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aD 2X.045

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-3401.6	3.0	**0.0775**	0.004	5.1	ug/L	-9343	Standard
|	**Ni -1**	60	2992.6	1.6	**0.2442**	0.006	2.4	ug/L	582	Standard
|	**Ni -2**	62	124406.1	1.7	**94.8135**	2.055	2.2	ug/L	3055	Standard
|	**As**	75	29893.3	0.9	**1.5141**	0.027	1.8	ug/L	25703	Standard
|	**As-1**	75	4973.3	5.9	**0.6788**	0.050	7.4	ug/L	1359	Standard
|	**Se**	77	3012.7	1.0	**7.3166**	0.120	1.6	ug/L	259	Standard
|	**Se -1**	78	26462.5	0.7	**4.0620**	0.107	2.6	ug/L	25820	Standard
|	**Br**	79	26206.0	0.9				ug/L	715	Standard
|	**Se -2**	82	644.3	2.3	**0.2379**	0.036	15.2	ug/L	617	Standard
	Kr	83	813.4	8.2				ug/L	646	Standard
	Y	89	1724230.0	0.4				ug/L	2084970	Standard
|	**Rh**	103	1176177.8	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	745.1	5.3	**0.0670**	0.009	14.1	ug/L	229	KED
|	**Ni -4**	60	340.0	8.2	**0.0488**	0.015	29.8	ug/L	94	KED
|	**Ni -5**	62	71.7	2.1	**0.1343**	0.004	3.2	ug/L	14	KED
|	**As-2**	75	265.0	9.5	**0.6550**	0.066	10.1	ug/L	8	KED
	Y-1	89	134271.1	0.6				ug/L	151628	KED
	Rh-1	103	335134.1	0.1				ug/L	379534	KED
|>	**Ge**	72	1073647.4	0.6				ug/L	1316182	Standard
|>	**In**	115	815751.8	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	58926.0	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.573
|>	In	115		82.059
|>	Ge-1	72		86.928

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aL 10X

Sample Date/Time: Monday, August 26, 2024 09:56:08
Report Date/Time: Monday, August 26, 2024 09:57:58
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aL 10X.046

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-5885.8	2.5	**-0.0481**	0.004	8.0	ug/L	-9343	Standard
|	**Ni -1**	60	1073.0	2.3	**0.0269**	0.001	4.0	ug/L	582	Standard
|	**Ni -2**	62	95941.1	0.9	**74.8472**	0.441	0.6	ug/L	3055	Standard
|	**As**	75	25523.2	0.2	**0.8710**	0.061	7.0	ug/L	25703	Standard
|	**As-1**	75	2285.7	2.9	**0.2226**	0.006	2.7	ug/L	1359	Standard
|	**Se**	77	1889.8	1.8	**4.5167**	0.081	1.8	ug/L	259	Standard
|	**Se -1**	78	24866.6	0.5	**3.3543**	0.338	10.1	ug/L	25820	Standard
|	**Br**	79	13963.5	1.1				ug/L	715	Standard
|	**Se -2**	82	676.0	4.8	**0.3400**	0.068	20.0	ug/L	617	Standard
	Kr	83	694.0	3.3				ug/L	646	Standard
	Y	89	1659493.1	1.2				ug/L	2084970	Standard
|	**Rh**	103	1150197.6	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	321.9	4.8	**-0.0238**	0.003	14.0	ug/L	229	KED
|	**Ni -4**	60	135.7	13.5	**-0.0521**	0.009	18.1	ug/L	94	KED
|	**Ni -5**	62	40.7	12.4	**0.0422**	0.017	41.0	ug/L	14	KED
|	**As-2**	75	78.7	6.0	**0.2028**	0.011	5.2	ug/L	8	KED
	Y-1	89	123384.2	0.9				ug/L	151628	KED
	Rh-1	103	310065.9	1.4				ug/L	379534	KED
|>	**Ge**	72	1043144.2	1.5				ug/L	1316182	Standard
|>	**In**	115	794835.5	1.1				ug/L	994105	Standard
|>	**Ge-1**	72	53968.1	2.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		79.255
|>	In	115		79.955
|>	Ge-1	72		79.614

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aMS 2X

Sample Date/Time: Monday, August 26, 2024 10:00:17
Report Date/Time: Monday, August 26, 2024 10:02:06
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aMS 2X.047

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1030780.3	0.7	**51.2079**	0.263	0.5	ug/L	-9343	Standard
|	**Ni -1**	60	421028.6	1.4	**50.5440**	0.262	0.5	ug/L	582	Standard
|	**Ni -2**	62	153902.3	0.7	**123.2194**	2.006	1.6	ug/L	3055	Standard
|	**As**	75	330428.6	0.3	**57.5791**	0.547	0.9	ug/L	25703	Standard
|	**As-1**	75	309917.2	0.3	**56.2104**	0.577	1.0	ug/L	1359	Standard
|	**Se**	77	22570.8	0.9	**61.3007**	0.340	0.6	ug/L	259	Standard
|	**Se -1**	78	92074.4	0.5	**61.1773**	0.560	0.9	ug/L	25820	Standard
|	**Br**	79	22782.5	0.5				ug/L	715	Standard
|	**Se -2**	82	28216.5	0.8	**57.5569**	0.812	1.4	ug/L	617	Standard
	Kr	83	639.0	1.5				ug/L	646	Standard
	Y	89	1641138.4	0.8				ug/L	2084970	Standard
|	**Rh**	103	1120749.6	0.3				ug/L	1339953	Standard
|	**Ni -3**	58	199194.0	0.7	**48.3682**	0.297	0.6	ug/L	229	KED
|	**Ni -4**	60	88173.6	0.6	**48.7172**	0.315	0.6	ug/L	94	KED
|	**Ni -5**	62	13507.7	0.9	**47.9529**	0.304	0.6	ug/L	14	KED
|	**As-2**	75	20129.5	1.0	**53.5743**	0.236	0.4	ug/L	8	KED
	Y-1	89	127521.7	0.9				ug/L	151628	KED
	Rh-1	103	317645.7	0.6				ug/L	379534	KED
|>	**Ge**	72	1026927.8	1.2				ug/L	1316182	Standard
|>	**In**	115	782362.5	0.6				ug/L	994105	Standard
|>	**Ge-1**	72	55861.3	1.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.023
|>	In	115		78.700
|>	Ge-1	72		82.407

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aMSD 2X

Sample Date/Time: Monday, August 26, 2024 10:04:26
Report Date/Time: Monday, August 26, 2024 10:06:15
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aMSD 2X.048

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1028394.5	0.2	**50.8839**	0.339	0.7	ug/L	-9343	Standard
|	**Ni -1**	60	420384.0	1.3	**50.2620**	0.538	1.1	ug/L	582	Standard
|	**Ni -2**	62	140852.0	0.5	**112.1305**	1.169	1.0	ug/L	3055	Standard
|	**As**	75	331489.6	1.2	**57.5214**	0.359	0.6	ug/L	25703	Standard
|	**As-1**	75	311876.0	1.5	**56.3309**	0.456	0.8	ug/L	1359	Standard
|	**Se**	77	22462.0	1.0	**60.7505**	0.252	0.4	ug/L	259	Standard
|	**Se -1**	78	91826.2	0.9	**60.6455**	0.895	1.5	ug/L	25820	Standard
|	**Br**	79	21715.2	0.5				ug/L	715	Standard
|	**Se -2**	82	28471.0	1.7	**57.8411**	0.918	1.6	ug/L	617	Standard
	Kr	83	646.0	6.0				ug/L	646	Standard
	Y	89	1665060.7	1.1				ug/L	2084970	Standard
|	**Rh**	103	1136758.2	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	200188.4	1.7	**48.1554**	0.273	0.6	ug/L	229	KED
|	**Ni -4**	60	88771.0	2.2	**48.5876**	0.540	1.1	ug/L	94	KED
|	**Ni -5**	62	13639.5	3.0	**47.9646**	0.920	1.9	ug/L	14	KED
|	**As-2**	75	20596.5	2.4	**54.3051**	0.784	1.4	ug/L	8	KED
	Y-1	89	130426.1	1.4				ug/L	151628	KED
	Rh-1	103	322076.2	2.4				ug/L	379534	KED
|>	**Ge**	72	1031105.0	0.8				ug/L	1316182	Standard
|>	**In**	115	795221.7	1.5				ug/L	994105	Standard
|>	**Ge-1**	72	56382.4	1.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		78.341
|>	In	115		79.994
|>	Ge-1	72		83.176

Quantitative Analysis - Summary Report

Sample ID: 08-013-05aPS 2X

Sample Date/Time: Monday, August 26, 2024 10:08:36
Report Date/Time: Monday, August 26, 2024 10:10:25
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-013-05aPS 2X.049

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	744122.6	0.2	**37.9258**	0.158	0.4	ug/L	-9343	Standard
|	**Ni -1**	60	307391.3	0.5	**37.7731**	0.171	0.5	ug/L	582	Standard
|	**Ni -2**	62	115377.4	0.7	**94.1493**	1.159	1.2	ug/L	3055	Standard
|	**As**	75	249390.3	0.6	**43.6482**	0.222	0.5	ug/L	25703	Standard
|	**As-1**	75	229187.2	0.7	**42.5287**	0.204	0.5	ug/L	1359	Standard
|	**Se**	77	16523.6	1.0	**45.8180**	0.279	0.6	ug/L	259	Standard
|	**Se -1**	78	73192.7	0.4	**46.5417**	0.241	0.5	ug/L	25820	Standard
|	**Br**	79	20975.7	1.0				ug/L	715	Standard
|	**Se -2**	82	20900.6	1.0	**43.4126**	0.212	0.5	ug/L	617	Standard
	Kr	83	666.7	2.0				ug/L	646	Standard
	Y	89	1606104.7	1.3				ug/L	2084970	Standard
|	**Rh**	103	1104484.1	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	145880.5	1.2	**35.9283**	0.568	1.6	ug/L	229	KED
|	**Ni -4**	60	64479.5	0.5	**36.1273**	0.317	0.9	ug/L	94	KED
|	**Ni -5**	62	9945.8	0.3	**35.8112**	0.222	0.6	ug/L	14	KED
|	**As-2**	75	14956.2	0.6	**40.3998**	0.097	0.2	ug/L	8	KED
	Y-1	89	125465.6	1.4				ug/L	151628	KED
	Rh-1	103	311608.6	1.4				ug/L	379534	KED
|>	**Ge**	72	1002591.5	0.7				ug/L	1316182	Standard
|>	**In**	115	772730.3	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	55034.1	0.7				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.174
|>	In	115		77.731
|>	Ge-1	72		81.187

Quantitative Analysis - Summary Report

Sample ID: 08-224-01c 10X

Sample Date/Time: Monday, August 26, 2024 10:26:27
Report Date/Time: Monday, August 26, 2024 10:28:17
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-01c 10X.050

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	4674.0	11.8	**0.4698**	0.025	5.3	ug/L	-9343	Standard
|	**Ni -1**	60	10312.7	4.6	**1.1428**	0.042	3.7	ug/L	582	Standard
|	**Ni -2**	62	462729.0	11.7	**374.9520**	39.925	10.6	ug/L	3055	Standard
|	**As**	75	35524.5	4.3	**2.8148**	0.210	7.5	ug/L	25703	Standard
|	**As-1**	75	10396.4	5.4	**1.7097**	0.113	6.6	ug/L	1359	Standard
|	**Se**	77	30413.4	5.6	**82.9590**	3.689	4.4	ug/L	259	Standard
|	**Se -1**	78	36740.3	4.7	**13.9007**	1.111	8.0	ug/L	25820	Standard
|	**Br**	79	2908180.5	0.8				ug/L	715	Standard
|	**Se -2**	82	4610.7	0.3	**8.5551**	0.142	1.7	ug/L	617	Standard
	Kr	83	3241.0	21.7				ug/L	646	Standard
	Y	89	1673944.1	1.0				ug/L	2084970	Standard
|	**Rh**	103	1047755.7	1.4				ug/L	1339953	Standard
|	**Ni -3**	58	2622.3	1.7	**0.4843**	0.010	2.0	ug/L	229	KED
|	**Ni -4**	60	1095.7	2.9	**0.4307**	0.017	3.9	ug/L	94	KED
|	**Ni -5**	62	293.3	4.3	**0.8562**	0.042	4.9	ug/L	14	KED
|	**As-2**	75	259.3	6.0	**0.6235**	0.037	5.9	ug/L	8	KED
	Y-1	89	133564.1	0.4				ug/L	151628	KED
	Rh-1	103	313584.8	0.6				ug/L	379534	KED
|>	**Ge**	72	1024630.0	1.2				ug/L	1316182	Standard
|>	**In**	115	743405.4	1.8				ug/L	994105	Standard
|>	**Ge-1**	72	60497.8	0.3				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		77.849
|>	In	115		74.781
|>	Ge-1	72		89.247

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 10:30:38
Report Date/Time: Monday, August 26, 2024 10:32:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.051

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	949157.5	0.6	**39.7290**	0.224	0.6	ug/L	-9343	Standard
|	**Ni -1**	60	385425.8	1.0	**38.9104**	0.279	0.7	ug/L	582	Standard
|	**Ni -2**	62	317445.9	0.2	**215.3079**	2.645	1.2	ug/L	3055	Standard
|	**As**	75	291311.4	1.0	**41.7297**	0.178	0.4	ug/L	25703	Standard
|	**As-1**	75	263311.7	1.1	**40.1274**	0.063	0.2	ug/L	1359	Standard
|	**Se**	77	23019.2	1.7	**52.5204**	0.761	1.4	ug/L	259	Standard
|	**Se -1**	78	89378.1	1.5	**46.7412**	0.534	1.1	ug/L	25820	Standard
|	**Br**	79	29277.3	2.9				ug/L	715	Standard
|	**Se -2**	82	24216.2	2.1	**41.2671**	0.431	1.0	ug/L	617	Standard
	Kr	83	1930.8	4.2				ug/L	646	Standard
	Y	89	1971939.7	1.1				ug/L	2084970	Standard
|	**Rh**	103	1127149.2	1.9				ug/L	1339953	Standard
|	**Ni -3**	58	184698.7	0.8	**37.8593**	0.351	0.9	ug/L	229	KED
|	**Ni -4**	60	81524.6	0.0	**38.0180**	0.083	0.2	ug/L	94	KED
|	**Ni -5**	62	12513.1	0.8	**37.4987**	0.276	0.7	ug/L	14	KED
|	**As-2**	75	17086.2	0.8	**38.4081**	0.357	0.9	ug/L	8	KED
	Y-1	89	150997.5	0.1				ug/L	151628	KED
	Rh-1	103	314945.8	0.3				ug/L	379534	KED
| >	**Ge**	72	1220471.2	1.1				ug/L	1316182	Standard
| >	**In**	115	911413.7	1.8				ug/L	994105	Standard
| >	**Ge-1**	72	66131.4	0.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.323	
|	Ni -1	60	97.276	
|	Ni -2	62	538.270	
|	As	75	104.324	
|	As-1	75	100.319	
|	Se	77	131.301	
|	Se -1	78	116.853	
|	Br	79		
|	Se -2	82	103.168	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	94.648	
|	Ni -4	60	95.045	
|	Ni -5	62	93.747	
|	As-2	75	96.020	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		92.728
| >	In	115		91.682
| >	Ge-1	72		97.557

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 10:34:49
Report Date/Time: Monday, August 26, 2024 10:36:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.052

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	440998.4	0.7	**19.4386**	0.216	1.1	ug/L	-9343	Standard
|	**Ni -1**	60	182420.7	0.5	**19.2206**	0.092	0.5	ug/L	582	Standard
|	**Ni -2**	62	222224.6	1.1	**157.1794**	1.609	1.0	ug/L	3055	Standard
|	**As**	75	151098.8	0.4	**20.9143**	0.192	0.9	ug/L	25703	Standard
|	**As-1**	75	126589.6	0.1	**20.0956**	0.186	0.9	ug/L	1359	Standard
|	**Se**	77	11168.0	0.4	**26.3774**	0.298	1.1	ug/L	259	Standard
|	**Se -1**	78	55314.9	1.2	**24.0723**	0.301	1.2	ug/L	25820	Standard
|	**Br**	79	18866.5	0.8				ug/L	715	Standard
|	**Se -2**	82	12169.5	0.9	**21.2086**	0.118	0.6	ug/L	617	Standard
	Kr	83	1306.7	1.3				ug/L	646	Standard
	Y	89	1905707.5	0.4				ug/L	2084970	Standard
|	**Rh**	103	1098500.1	0.5				ug/L	1339953	Standard
|	**Ni -3**	58	88194.9	1.0	**18.6970**	0.205	1.1	ug/L	229	KED
|	**Ni -4**	60	38728.1	1.1	**18.6652**	0.091	0.5	ug/L	94	KED
|	**Ni -5**	62	6054.9	1.1	**18.7662**	0.223	1.2	ug/L	14	KED
|	**As-2**	75	8320.8	0.7	**19.3924**	0.162	0.8	ug/L	8	KED
	Y-1	89	148344.2	0.4				ug/L	151628	KED
	Rh-1	103	312943.0	0.9				ug/L	379534	KED
| >	**Ge**	72	1166324.2	0.8				ug/L	1316182	Standard
| >	**In**	115	892179.3	0.8				ug/L	994105	Standard
| >	**Ge-1**	72	63762.3	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	97.193	
|	Ni -1	60	96.103	
|	Ni -2	62	785.897	
|	As	75	104.572	
|	As-1	75	100.478	
|	Se	77	131.887	
|	Se -1	78	120.362	
|	Br	79		
|	Se -2	82	106.043	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	93.485	
|	Ni -4	60	93.326	
|	Ni -5	62	93.831	
|	As-2	75	96.962	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		88.614
| >	In	115		89.747
| >	Ge-1	72		94.063

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 10:39:00
Report Date/Time: Monday, August 26, 2024 10:40:49
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.053

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-7688.1	1.2	**-0.1014**	0.004	4.3	ug/L	-9343	Standard
|	**Ni -1**	60	432.7	4.2	**-0.0536**	0.002	3.5	ug/L	582	Standard
|	**Ni -2**	62	165734.6	1.2	**118.4993**	0.863	0.7	ug/L	3055	Standard
|	**As**	75	25834.4	0.9	**0.4919**	0.022	4.5	ug/L	25703	Standard
|	**As-1**	75	2256.0	2.2	**0.1801**	0.007	4.1	ug/L	1359	Standard
|	**Se**	77	1624.8	2.3	**3.3969**	0.085	2.5	ug/L	259	Standard
|	**Se -1**	78	26046.7	0.8	**2.3233**	0.080	3.5	ug/L	25820	Standard
|	**Br**	79	15754.0	0.9				ug/L	715	Standard
|	**Se -2**	82	1007.0	1.4	**0.8268**	0.018	2.2	ug/L	617	Standard
	Kr	83	1129.7	1.9				ug/L	646	Standard
	Y	89	1868042.8	0.0				ug/L	2084970	Standard
|	**Rh**	103	1176027.5	0.1				ug/L	1339953	Standard
|	**Ni -3**	58	159.3	9.3	**-0.0711**	0.003	4.2	ug/L	229	KED
|	**Ni -4**	60	72.0	17.4	**-0.0951**	0.006	6.4	ug/L	94	KED
|	**Ni -5**	62	45.0	9.7	**0.0321**	0.014	44.5	ug/L	14	KED
|	**As-2**	75	7.7	27.2	**0.0039**	0.005	127.6	ug/L	8	KED
	Y-1	89	146506.4	0.8				ug/L	151628	KED
	Rh-1	103	337693.1	0.5				ug/L	379534	KED
|>	**Ge**	72	1149042.9	0.5				ug/L	1316182	Standard
|>	**In**	115	873469.2	0.2				ug/L	994105	Standard
|>	**Ge-1**	72	64121.3	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		87.301
|>	In	115		87.865
|>	Ge-1	72		94.592

Quantitative Analysis - Summary Report

Sample ID: 08-224-02c 10X

Sample Date/Time: Monday, August 26, 2024 10:43:34
Report Date/Time: Monday, August 26, 2024 10:45:24
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-02c 10X.054

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	5077.7	76.8	**0.4939**	0.197	39.8	ug/L	-9343	Standard
|	**Ni -1**	60	14989.6	11.3	**1.7307**	0.216	12.5	ug/L	582	Standard
|	**Ni -2**	62	1661450.2	33.6	**1371.2470**	466.406	34.0	ug/L	3055	Standard
|	**As**	75	52158.3	12.0	**6.0405**	1.226	20.3	ug/L	25703	Standard
|	**As-1**	75	13798.2	19.1	**2.3599**	0.473	20.0	ug/L	1359	Standard
|	**Se**	77	75617.9	4.7	**209.8851**	11.061	5.3	ug/L	259	Standard
|	**Se -1**	78	62837.8	13.1	**36.9946**	7.434	20.1	ug/L	25820	Standard
|	**Br**	79	6585907.1	1.0				ug/L	715	Standard
|	**Se -2**	82	9697.6	2.5	**19.3961**	0.404	2.1	ug/L	617	Standard
	Kr	83	22918.9	35.8				ug/L	646	Standard
	Y	89	1718626.5	3.0				ug/L	2084970	Standard
|	**Rh**	103	1062382.5	2.0				ug/L	1339953	Standard
|	**Ni -3**	58	1237.9	3.6	**0.1558**	0.008	5.1	ug/L	229	KED
|	**Ni -4**	60	552.7	2.1	**0.1353**	0.009	6.3	ug/L	94	KED
|	**Ni -5**	62	616.3	3.7	**1.7904**	0.051	2.9	ug/L	14	KED
|	**As-2**	75	156.0	5.1	**0.3455**	0.015	4.3	ug/L	8	KED
	Y-1	89	136903.0	1.8				ug/L	151628	KED
	Rh-1	103	316784.0	1.5				ug/L	379534	KED
|>	**Ge**	72	1011764.3	0.6				ug/L	1316182	Standard
|>	**In**	115	757443.8	1.2				ug/L	994105	Standard
|>	**Ge-1**	72	64535.5	1.2				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		76.871
|>	In	115		76.194
|>	Ge-1	72		95.203

Quantitative Analysis - Summary Report

Sample ID: 08-224-03c 10X

Sample Date/Time: Monday, August 26, 2024 10:47:44
Report Date/Time: Monday, August 26, 2024 10:49:33
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-03c 10X.055

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	10088.6	10.6	**0.7168**	0.050	7.0	ug/L	-9343	Standard
|	**Ni -1**	60	16440.1	3.3	**1.7966**	0.061	3.4	ug/L	582	Standard
|	**Ni -2**	62	2530352.8	5.2	**1972.1529**	102.964	5.2	ug/L	3055	Standard
|	**As**	75	71351.1	1.7	**8.9141**	0.234	2.6	ug/L	25703	Standard
|	**As-1**	75	14625.4	7.4	**2.3660**	0.196	8.3	ug/L	1359	Standard
|	**Se**	77	79202.0	0.8	**207.6850**	1.475	0.7	ug/L	259	Standard
|	**Se -1**	78	80546.8	1.7	**48.4941**	1.098	2.3	ug/L	25820	Standard
|	**Br**	79	6235298.7	1.0				ug/L	715	Standard
|	**Se -2**	82	9466.1	1.0	**17.8116**	0.236	1.3	ug/L	617	Standard
	Kr	83	35050.0	6.0				ug/L	646	Standard
	Y	89	1825699.2	0.9				ug/L	2084970	Standard
|	**Rh**	103	1129356.8	0.3				ug/L	1339953	Standard
|	**Ni -3**	58	1015.0	1.9	**0.0928**	0.005	5.3	ug/L	229	KED
|	**Ni -4**	60	471.3	5.6	**0.0791**	0.010	13.0	ug/L	94	KED
|	**Ni -5**	62	588.0	3.6	**1.5671**	0.068	4.3	ug/L	14	KED
|	**As-2**	75	145.0	5.0	**0.2951**	0.017	5.8	ug/L	8	KED
	Y-1	89	148607.6	0.8				ug/L	151628	KED
	Rh-1	103	343040.6	0.7				ug/L	379534	KED
|>	**Ge**	72	1070711.3	0.3				ug/L	1316182	Standard
|>	**In**	115	802404.9	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	69799.4	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		81.350
|>	In	115		80.716
|>	Ge-1	72		102.969

Quantitative Analysis - Summary Report

Sample ID: 08-224-04c 10X

Sample Date/Time: Monday, August 26, 2024 10:51:53
Report Date/Time: Monday, August 26, 2024 10:53:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-04c 10X.056

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	9782.8	10.3	**0.6199**	0.038	6.1	ug/L	-9343	Standard
|	**Ni -1**	60	5256.3	1.7	**0.3987**	0.008	2.0	ug/L	582	Standard
|	**Ni -2**	62	1100799.5	3.1	**704.4180**	22.911	3.3	ug/L	3055	Standard
|	**As**	75	67185.6	1.5	**6.0476**	0.150	2.5	ug/L	25703	Standard
|	**As-1**	75	13464.1	1.9	**1.7459**	0.038	2.2	ug/L	1359	Standard
|	**Se**	77	13367.6	6.7	**28.3297**	1.961	6.9	ug/L	259	Standard
|	**Se -1**	78	58800.5	2.3	**22.0900**	0.910	4.1	ug/L	25820	Standard
|	**Br**	79	298088.4	0.9				ug/L	715	Standard
|	**Se -2**	82	2079.8	1.7	**2.3650**	0.058	2.5	ug/L	617	Standard
	Kr	83	6469.8	7.9				ug/L	646	Standard
	Y	89	1684042.2	0.9				ug/L	2084970	Standard
|	**Rh**	103	1336597.4	1.1				ug/L	1339953	Standard
|	**Ni -3**	58	3197.8	4.5	**0.5074**	0.027	5.4	ug/L	229	KED
|	**Ni -4**	60	745.7	9.4	**0.1952**	0.030	15.4	ug/L	94	KED
|	**Ni -5**	62	274.3	6.5	**0.6604**	0.046	7.0	ug/L	14	KED
|	**As-2**	75	718.0	0.4	**1.4901**	0.007	0.5	ug/L	8	KED
	Y-1	89	157121.7	0.4				ug/L	151628	KED
	Rh-1	103	390088.4	0.9				ug/L	379534	KED
|>	**Ge**	72	1301792.8	0.6				ug/L	1316182	Standard
|>	**In**	115	909008.3	1.1				ug/L	994105	Standard
|>	**Ge-1**	72	70995.6	0.6				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		98.907
|>	In	115		91.440
|>	Ge-1	72		104.733

Quantitative Analysis - Summary Report

Sample ID: 08-224-05c 10X

Sample Date/Time: Monday, August 26, 2024 10:56:02
Report Date/Time: Monday, August 26, 2024 10:57:51
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\08-224-05c 10X.057

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	6907.9	30.2	**0.5601**	0.096	17.2	ug/L	-9343	Standard
|	**Ni -1**	60	15257.2	4.5	**1.6294**	0.071	4.4	ug/L	582	Standard
|	**Ni -2**	62	2642166.2	9.7	**2023.2663**	189.112	9.3	ug/L	3055	Standard
|	**As**	75	73872.4	4.8	**9.1337**	0.563	6.2	ug/L	25703	Standard
|	**As-1**	75	16256.1	8.2	**2.6010**	0.226	8.7	ug/L	1359	Standard
|	**Se**	77	67069.8	2.6	**172.7238**	3.966	2.3	ug/L	259	Standard
|	**Se -1**	78	81417.0	4.7	**48.0458**	2.864	6.0	ug/L	25820	Standard
|	**Br**	79	6590550.9	0.3				ug/L	715	Standard
|	**Se -2**	82	9459.5	0.7	**17.4722**	0.178	1.0	ug/L	617	Standard
	Kr	83	30473.9	14.8				ug/L	646	Standard
	Y	89	1870057.8	0.2				ug/L	2084970	Standard
|	**Rh**	103	1151698.5	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	1076.4	2.9	**0.1037**	0.006	6.1	ug/L	229	KED
|	**Ni -4**	60	476.0	3.3	**0.0802**	0.007	8.2	ug/L	94	KED
|	**Ni -5**	62	745.0	2.2	**2.0034**	0.046	2.3	ug/L	14	KED
|	**As-2**	75	117.3	7.2	**0.2348**	0.018	7.6	ug/L	8	KED
	Y-1	89	149627.9	0.7				ug/L	151628	KED
	Rh-1	103	345527.5	0.7				ug/L	379534	KED
|>	**Ge**	72	1089571.7	0.5				ug/L	1316182	Standard
|>	**In**	115	816232.2	0.8				ug/L	994105	Standard
|>	**Ge-1**	72	70148.8	0.1				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
|>	Ge	72		82.783
|>	In	115		82.107
|>	Ge-1	72		103.484

Quantitative Analysis - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, August 26, 2024 11:08:52
Report Date/Time: Monday, August 26, 2024 11:10:42
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 6.060

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	1073967.8	0.7	**40.0390**	0.129	0.3	ug/L	-9343	Standard
|	**Ni -1**	60	435092.8	0.6	**39.1260**	0.161	0.4	ug/L	582	Standard
|	**Ni -2**	62	774773.1	3.5	**470.3581**	15.712	3.3	ug/L	3055	Standard
|	**As**	75	331148.3	1.0	**42.3020**	0.475	1.1	ug/L	25703	Standard
|	**As-1**	75	294854.0	1.0	**40.0268**	0.522	1.3	ug/L	1359	Standard
|	**Se**	77	23092.0	1.1	**46.8683**	0.472	1.0	ug/L	259	Standard
|	**Se -1**	78	105453.5	1.9	**50.0192**	1.076	2.2	ug/L	25820	Standard
|	**Br**	79	38881.2	0.3				ug/L	715	Standard
|	**Se -2**	82	27293.1	1.9	**41.4398**	0.990	2.4	ug/L	617	Standard
	Kr	83	2251.5	2.1				ug/L	646	Standard
	Y	89	1809730.0	0.8				ug/L	2084970	Standard
|	**Rh**	103	1256992.6	0.6				ug/L	1339953	Standard
|	**Ni -3**	58	212341.4	0.3	**38.8438**	0.262	0.7	ug/L	229	KED
|	**Ni -4**	60	93289.3	0.7	**38.8278**	0.659	1.7	ug/L	94	KED
|	**Ni -5**	62	14461.3	1.6	**38.6799**	0.901	2.3	ug/L	14	KED
|	**As-2**	75	19062.0	0.5	**38.2381**	0.327	0.9	ug/L	8	KED
	Y-1	89	165545.7	0.6				ug/L	151628	KED
	Rh-1	103	357533.1	0.3				ug/L	379534	KED
|>	**Ge**	72	1370153.7	0.6				ug/L	1316182	Standard
|>	**In**	115	996206.7	0.3				ug/L	994105	Standard
|>	**Ge-1**	72	74109.7	1.0				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	100.098	
|	Ni -1	60	97.815	
|	Ni -2	62	1175.895	
|	As	75	105.755	
|	As-1	75	100.067	
|	Se	77	117.171	
|	Se -1	78	125.048	
|	Br	79		
|	Se -2	82	103.599	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	97.109	
|	Ni -4	60	97.070	
|	Ni -5	62	96.700	
|	As-2	75	95.595	
	Y-1	89		
	Rh-1	103		
|>	Ge	72		104.101
|>	In	115		100.211
|>	Ge-1	72		109.327

Quantitative Analysis - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, August 26, 2024 11:13:03
Report Date/Time: Monday, August 26, 2024 11:14:53
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 7.061

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	496821.2	0.7	**19.8513**	0.022	0.1	ug/L	-9343	Standard
|	**Ni -1**	60	205461.7	0.9	**19.6315**	0.107	0.5	ug/L	582	Standard
|	**Ni -2**	62	549472.0	1.1	**354.8609**	2.024	0.6	ug/L	3055	Standard
|	**As**	75	171573.8	0.2	**21.6463**	0.156	0.7	ug/L	25703	Standard
|	**As-1**	75	140154.2	0.4	**20.1750**	0.187	0.9	ug/L	1359	Standard
|	**Se**	77	11517.6	1.5	**24.6269**	0.283	1.1	ug/L	259	Standard
|	**Se -1**	78	66195.0	0.7	**27.6189**	0.048	0.2	ug/L	25820	Standard
|	**Br**	79	31401.5	1.3				ug/L	715	Standard
|	**Se -2**	82	13743.3	0.1	**21.7436**	0.124	0.6	ug/L	617	Standard
	Kr	83	1736.8	1.0				ug/L	646	Standard
	Y	89	1728615.7	1.0				ug/L	2084970	Standard
|	**Rh**	103	1189601.2	0.8				ug/L	1339953	Standard
|	**Ni -3**	58	98728.1	0.2	**19.1186**	0.136	0.7	ug/L	229	KED
|	**Ni -4**	60	43596.1	0.8	**19.1946**	0.149	0.8	ug/L	94	KED
|	**Ni -5**	62	6913.7	1.0	**19.5745**	0.074	0.4	ug/L	14	KED
|	**As-2**	75	9064.2	0.6	**19.2944**	0.155	0.8	ug/L	8	KED
	Y-1	89	158132.7	0.2				ug/L	151628	KED
	Rh-1	103	332818.1	0.8				ug/L	379534	KED
| >	**Ge**	72	1286245.6	0.6				ug/L	1316182	Standard
| >	**In**	115	951780.2	1.3				ug/L	994105	Standard
| >	**Ge-1**	72	69813.2	0.8				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58	99.257	
|	Ni -1	60	98.158	
|	Ni -2	62	1774.304	
|	As	75	108.232	
|	As-1	75	100.875	
|	Se	77	123.134	
|	Se -1	78	138.094	
|	Br	79		
|	Se -2	82	108.718	
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58	95.593	
|	Ni -4	60	95.973	
|	Ni -5	62	97.873	
|	As-2	75	96.472	
	Y-1	89		
	Rh-1	103		
| >	Ge	72		97.725
| >	In	115		95.742
| >	Ge-1	72		102.989

Quantitative Analysis - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Monday, August 26, 2024 11:17:14
Report Date/Time: Monday, August 26, 2024 11:19:04
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Y240826A.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Y240826A\QC Std 8.062

Results (Mean Data)

IS	Analyte	Mass	Intensity	RSD	Conc.	SD	RSD	Units	Blank Intens.	Mode
|	**Ni**	58	-8112.6	0.7	**-0.0865**	0.002	2.8	ug/L	-9343	Standard
|	**Ni -1**	60	585.3	2.6	**-0.0431**	0.001	2.3	ug/L	582	Standard
|	**Ni -2**	62	422306.3	1.2	**276.2845**	4.927	1.8	ug/L	3055	Standard
|	**As**	75	32176.4	1.3	**1.0443**	0.061	5.8	ug/L	25703	Standard
|	**As-1**	75	2792.0	5.0	**0.2246**	0.016	6.9	ug/L	1359	Standard
|	**Se**	77	1406.1	1.5	**2.5383**	0.045	1.8	ug/L	259	Standard
|	**Se -1**	78	32571.4	1.3	**4.9786**	0.244	4.9	ug/L	25820	Standard
|	**Br**	79	25743.5	1.1				ug/L	715	Standard
|	**Se -2**	82	1298.7	4.9	**1.1416**	0.076	6.6	ug/L	617	Standard
	Kr	83	1534.4	2.4				ug/L	646	Standard
	Y	89	1696856.8	0.6				ug/L	2084970	Standard
|	**Rh**	103	1282322.6	0.1				ug/L	1339953	Standard
|	**Ni -3**	58	205.1	9.9	**-0.0646**	0.004	5.7	ug/L	229	KED
|	**Ni -4**	60	98.7	1.5	**-0.0857**	0.001	1.1	ug/L	94	KED
|	**Ni -5**	62	84.0	3.6	**0.1337**	0.011	7.9	ug/L	14	KED
|	**As-2**	75	11.7	9.9	**0.0111**	0.003	24.3	ug/L	8	KED
	Y-1	89	157579.4	0.7				ug/L	151628	KED
	Rh-1	103	362394.2	0.8				ug/L	379534	KED
| >	**Ge**	72	1267888.5	1.4				ug/L	1316182	Standard
| >	**In**	115	942557.6	0.5				ug/L	994105	Standard
| >	**Ge-1**	72	69240.7	0.9				ug/L	67787	KED

QC Calculated Values

Internal Standard Symbol	Analyte	Mass	QC Std % Recovery	Int Std % Recovery
|	Ni	58		
|	Ni -1	60		
|	Ni -2	62		
|	As	75		
|	As-1	75		
|	Se	77		
|	Se -1	78		
|	Br	79		
|	Se -2	82		
	Kr	83		
	Y	89		
|	Rh	103		
|	Ni -3	58		
|	Ni -4	60		
|	Ni -5	62		
|	As-2	75		
	Y-1	89		
	Rh-1	103		
| >	Ge	72		96.331
| >	In	115		94.815
| >	Ge-1	72		102.144

DIGESTION DATE:	8-26-24
ANALYST:	KDM

QC BATCH #:	08-013-05a
MATRIX:	water
ANALYSIS METHOD:	3015

OSE LAB ID#	INITIAL Wt.(g)/Vol.(ml)	FINAL Vol.(ml)	DILUTION FACTOR	PRE/POST DIGEST APPEARANCE	COMMENTS
MD0826WM1	45 mL	50 mL			
SB0826WM1	↓	↓			
08-013-05a					
05aD					
05aMS					
05aMSD					
08-224-01c					
02c					
03c					
04c					
05c					

SPIKE ID# IV6070Cal-1 VOL ADDED: .25 mL

Appendix C

Data Validation Reports

GeoEngineers

2101 4th Avenue, Suite 950, Seattle, Washington 98121, Telephone: 206.728.2674 www.geoengineers.com

Data Validation Report

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	March 13, 2024
GEI File No:	5147-006-18
Subject:	Post-Construction Compliance Groundwater Monitoring – November 2023 Groundwater Monitoring Event

This report documents the results of a United States Environmental Protection Agency (USEPA) defined Stage 2B data validation (USEPA 2009) of the analytical data from the analyses of water samples collected as part of the November 2023 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Dakota Creek Industries (DCI) Site located at 155 Q Avenue (north of 3rd Street between Commercial Avenue and R Avenue) in Anacortes, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a) and National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Instrument Tuning
- Internal Standards

- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits

Validated Sample Delivery Groups

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2311-272	MW-2B_20231128, MW-3A_20231128, MW-6_20231128, DUP-1_20231128, MW-8_20231128

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following methods:

- Polycyclic Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) Method SW8270E-SIM; and
- Total and Dissolved Metals by EPA Method 200.8

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample

collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius. Samples for PAH analysis was placed in laboratory prepared containers with hydrochloric acid (HCL) in accordance with method guidelines. Samples for metals analysis were placed in laboratory prepared containers with nitric acid (HNO_3) in accordance with method guidelines. Samples for dissolved metal analysis were filtered in the field using a 0.45-micron inline filter prior to collection.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits.

METHOD BLANKS

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

- **SDG 2311-272:** One field duplicate sample pair, MW-6_20231128 and DUP-1_20231128, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

INSTRUMENT TUNING

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

INTERNAL STANDARDS (LOW RESOLUTION MASS SPECTROMETRY)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

INITIAL CALIBRATIONS (ICALS)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The relative standard deviation (%RSD) and relative response factors

(RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

CONTINUING CALIBRATIONS (CCALS)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The percent difference (%D) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

REPORTING LIMITS

The reporting limits were met by the laboratory for the target analytes throughout this sampling event.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

References

GeoEngineers, Inc. (GeoEngineers) 2022. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.

U.S. Environmental Protection Agency (USEPA) 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Publication No. EPA-540-R-08-005. Dated January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review. Publication No. EPA-540-R-20-005. Dated November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review. Publication No. EPA-540-R-10-011. Dated January 2010.

GeoEngineers

Data Validation Report

2101 4th Avenue, Suite 950, Seattle, Washington 98121, Telephone: 206.728.2674 www.geoengineers.com

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	May 31, 2024
GEI File No:	5147-006-18
Subject:	Post-Construction Compliance Groundwater Monitoring – February 2024 Groundwater Monitoring Event

This report documents the results of a United States Environmental Protection Agency (USEPA) defined Stage 2B data validation (USEPA 2009) of the analytical data from the analyses of water samples collected as part of the February 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Dakota Creek Industries (DCI) Site located at 155 Q Avenue (north of 3rd Street between Commercial Avenue and R Avenue) in Anacortes, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a) and National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Instrument Tuning
- Internal Standards

- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits

Validated Sample Delivery Groups

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2402-208	MW-2B-240214, MW-3A-240214, MW-6-240214, DUP-240214, MW-8-240214

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following methods:

- Polycyclic Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) Method SW8270E-SIM; and
- Total and Dissolved Metals by EPA Method 200.8

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample

collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius. Samples for PAH analysis was placed in laboratory prepared containers with hydrochloric acid (HCL) in accordance with method guidelines. Samples for metals analysis were placed in laboratory prepared containers with nitric acid (HNO_3) in accordance with method guidelines. Samples for dissolved metal analysis were filtered in the field using a 0.45-micron inline filter prior to collection.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis.

The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

- **SDG 2402-208:** (PAHs) The percent recovery of surrogate pyrene-d10 was less than the control limits in Sample MW-3A-240214; however, the sample was spiked with two additional surrogates and in each case the percent recovery values were within their respective control limits. No action was required for this outlier.

METHOD BLANKS

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

- **SDG 2402-208:** One field duplicate sample pair, MW-6-240214 and DUP-240214, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

INSTRUMENT TUNING

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

INTERNAL STANDARDS (LOW RESOLUTION MASS SPECTROMETRY)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

INITIAL CALIBRATIONS (ICALS)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The relative standard deviation (%RSD) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

CONTINUING CALIBRATIONS (CCALS)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The percent difference (%D) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

REPORTING LIMITS

The reporting limits were met by the laboratory for the target analytes throughout this sampling event.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

References

GeoEngineers, Inc. (GeoEngineers) 2022. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.

U.S. Environmental Protection Agency (USEPA) 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Publication No. EPA-540-R-08-005. Dated January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review. Publication No. EPA-540-R-20-005. Dated November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review. Publication No. EPA-540-R-10-011. Dated January 2010.

GeoEngineers

2101 4th Avenue, Suite 950, Seattle, Washington 98121, Telephone: 206.728.2674 www.geoengineers.com

Data Validation Report

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	August 9, 2024
GEI File No:	5147-006-18
Subject:	Post-Construction Compliance Groundwater Monitoring – May 2024 Groundwater Monitoring Event

This report documents the results of a United States Environmental Protection Agency (USEPA) defined Stage 2B data validation (USEPA 2009) of the analytical data from the analyses of water samples collected as part of the May 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Dakota Creek Industries (DCI) Site located at 155 Q Avenue (north of 3rd Street between Commercial Avenue and R Avenue) in Anacortes, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a) and National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Instrument Tuning
- Internal Standards

- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits

Validated Sample Delivery Groups

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
2405-311	MW-2B-240521, MW-3A-240521, MW-6-240524, DUP-240524, MW-8-240521

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following methods:

- Polycyclic Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) Method SW8270E-SIM; and
- Total and Dissolved Metals by EPA Method 200.8

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample

collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius. Samples for PAH analysis was placed in laboratory prepared containers with hydrochloric acid (HCL) in accordance with method guidelines. Samples for metals analysis were placed in laboratory prepared containers with nitric acid (HNO_3) in accordance with method guidelines. Samples for dissolved metal analysis were filtered in the field using a 0.45-micron inline filter prior to collection.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits.

METHOD BLANKS

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

- **SDG 2405-311:** One field duplicate sample pair, MW-6-240524 and DUP-240524, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

INSTRUMENT TUNING

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

INTERNAL STANDARDS (LOW RESOLUTION MASS SPECTROMETRY)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

INITIAL CALIBRATIONS (ICALS)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The relative standard deviation (%RSD) and relative response factors

(RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

CONTINUING CALIBRATIONS (CCALS)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The percent difference (%D) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

REPORTING LIMITS

The reporting limits were met by the laboratory for all target analytes throughout this sampling event.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

References

GeoEngineers, Inc. (GeoEngineers) 2022. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.

U.S. Environmental Protection Agency (USEPA) 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Publication No. EPA-540-R-08-005. Dated January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review. Publication No. EPA-540-R-20-005. Dated November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review. Publication No. EPA-540-R-10-011. Dated January 2010.

Data Validation Report

2101 4th Avenue, Suite 950, Seattle, Washington 98121, Telephone: 206.728.2674 www.geoengineers.com

Project:	Dakota Creek Industries, Anacortes, Washington
Date:	September 11, 2024
GEI File No:	5147-006-18
Subject:	Post-Construction Compliance Groundwater Monitoring – August 2024 Groundwater Monitoring Event

This report documents the results of a United States Environmental Protection Agency (USEPA) defined Stage 2B data validation (USEPA 2009) of the analytical data from the analyses of water samples collected as part of the August 2024 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Dakota Creek Industries (DCI) Site located at 155 Q Avenue (north of 3rd Street between Commercial Avenue and R Avenue) in Anacortes, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a) and National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP; GeoEngineers 2022), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Instrument Tuning
- Internal Standards

- Initial Calibrations (ICALs)
- Continuing Calibrations (CCALs)
- Reporting Limits

Validated Sample Delivery Groups

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

LABORATORY SDG	SAMPLES VALIDATED
2408-224	MW-2B-240819, MW-3A-240819, MW-6-240819, DUP-240819, MW-8-240819

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analyses on the samples using the following methods:

- Polycyclic Aromatic Hydrocarbons (PAHs) by Environmental Protection Agency (EPA) Method SW8270E-SIM; and
- Total and Dissolved Metals by EPA Method 200.8

Data Validation Summary

The results for each of the QC elements are summarized below.

DATA PACKAGE COMPLETENESS

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory.

HOLDING TIMES AND SAMPLE PRESERVATION

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample cooler arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius. Samples for PAH analysis was placed in laboratory prepared containers with hydrochloric acid (HCL) in accordance with method

guidelines. Samples for metals analysis were placed in laboratory prepared containers with nitric acid (HNO_3) in accordance with method guidelines. Samples for dissolved metal analysis were filtered in the field using a 0.45-micron inline filter prior to collection.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries (%R) are calculated following analysis. The surrogate recoveries for field samples were within the laboratory control limits.

METHOD BLANKS

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the results from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements for GeoEngineers samples were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the %R and RPD values were within the proper control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

FIELD DUPLICATES

Field duplicates are similar to laboratory duplicates in that they are used to assess precision. Two samples (parent and duplicate) are created in the field by subsampling the homogenized sample and submitting them to the lab as separate samples. Duplicate samples were collected and analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

- SDG 2408-224: One field duplicate sample pair, MW-6-240819 and DUP-240819, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

INSTRUMENT TUNING

Instrument tuning for analyses by gas chromatography/mass spectrometry (GC/MS) are completed to ensure that mass resolution, identification, and sensitivity of the analyses are acceptable. Instrument tuning should be performed at the beginning of each 12-hour period during which samples or standards are analyzed. The frequency and specified acceptance criteria were met for each applicable analysis.

INTERNAL STANDARDS (LOW RESOLUTION MASS SPECTROMETRY)

Like the surrogate, an internal standard is a compound that is chemically similar to the analytes of interest, but unlikely to be found in an environmental sample. Internal standards are used only for the mass spectrometry instrumentation and are usually added to the sample aliquot after extraction has taken place. The internal standard should be analyzed at the beginning of a 12-hour sample run and the control limits for internal standard recoveries are 50 percent to 200 percent of the calibration standard. The internal standard recoveries were within the control limits.

INITIAL CALIBRATIONS (ICALS)

The initial calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The relative standard deviation (%RSD) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

CONTINUING CALIBRATIONS (CCALS)

The continuing calibrations were conducted according to the laboratory methods and consisted of the appropriate number of standards. The percent difference (%D) and relative response factors (RRF) were within the internal laboratory control limits, or the control limits stated in the National Functional Guidelines (USEPA 2020a, 2020b).

REPORTING LIMITS

The reporting limits were met by the laboratory for the target analytes throughout this sampling event.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

References

GeoEngineers, Inc. (GeoEngineers) 2022. Compliance Monitoring and Quality Assurance Project Plan (CMP/QAPP), Dakota Creek Industries, Anacortes, Washington. Prepared for Washington State Department of Ecology on Behalf of Port of Anacortes. GEI File No. 5147-006-16. November 1, 2022.

U.S. Environmental Protection Agency (USEPA) 2009. "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

Appendix D

Historical Groundwater Chemical Analytical Results

Table D-1

Historical Groundwater Chemical Analytical Data

Dakota Creek Industries
Anacortes, Washington

Groundwater Monitoring Well[1]	Date Sampled	Sampled By	Units	Depth to Water (Feet)	Water Elevation (MLLW)	Total Metals[2]		Dissolved Metals[2]		Carcinogenic Polycyclic Aromatic Hydrocarbons[3] (cPAHs)							
						Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ[4] (ND=0.5RL)
MW-1	09/04/01	Landau	µg/L	N/A	N/A	--	--	**9**	*10 U*	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	**6**	**2.3**	--	--	--	--	--	--	--	--
	06/05/02	Landau	µg/L	N/A	N/A	**5**	**3.8**	**4**	**2.2**	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*1.41 U*
	08/19/02	Landau	µg/L	N/A	N/A	**0.6**	**4.2**	--	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.07 U*
	11/17/06	Floyd|Snider	µg/L	6.21	7.74	**3.3**	**2.1**	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.07 U
	06/17/08	GEI	µg/L	6.36	7.59	**4.8**	**3.2**	--	--	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.013 U*
	06/17/08	GEI	µg/L	6.36	7.59	**4.9**	**3.3**	--	--	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.013 U*
	05/23/12	GEI	µg/L	6.27	7.68	17 U	8 U	*15 U*	8 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	08/16/12	GEI	µg/L	6.52	7.43	**15**	8 U	**15**	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.07 U
	11/13/12	GEI	µg/L	6.37	7.58	*16 U*	**5.4**	*16 U*	5 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	02/13/13	GEI	µg/L	6.14	7.81	**15**	8 U	**14**	8 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.07 U
	02/10/16	GEI	µg/L	5.98	7.97	**1.3**	--	**1.2 J**	--	--	--	--	--	--	--	--	--
	08/18/16	GEI	µg/L	6.71	7.24	**9.2**	--	7.8 U	--	--	--	--	--	--	--	--	--
	02/15/17	GEI	µg/L	5.81	8.14	**11**	--	**5.6**	--	--	--	--	--	--	--	--	--
	08/23/17	GEI	µg/L	6.69	7.26	5.6 U	--	5.6 U	--	--	--	--	--	--	--	--	--
MW-2	09/04/01	Landau	µg/L	N/A	N/A	--	--	**3**	*10 U*	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	**0.5**	**7**	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	**0.5**	**0.7**	--	--	--	--	--	--	--	--
	06/05/02	Landau	µg/L	N/A	N/A	**3**	**7.5**	**3**	**7.5**	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*1.41 U*
	06/05/02	Landau	µg/L	N/A	N/A	**3**	**7.5**	**3**	**7.5**	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*1.41 U*
	08/19/02	Landau	µg/L	N/A	N/A	**4**	**9.9**	--	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.07 U*
	08/19/02	Landau	µg/L	N/A	N/A	**2**	**8.2**	--	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.07 U*
	11/17/06	Floyd|Snider	µg/L	6.81	8.26	**4**	**3.9**	--	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.0069 J**	0.01 U	0.01 U	**0.007**
	11/17/06	Floyd|Snider	µg/L	6.81	8.26	**3.8**	**3.9**	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 U
	06/17/08	GEI	µg/L	7.67	7.4	**3.4**	**2.4**	--	--	**0.03**	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	**0.015**
MW-2A	05/23/12	GEI	µg/L	10.38	4.69	*12 U*	*20 U*	*11 U*	*20 U*	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/16/12	GEI	µg/L	10.31	4.76	7.5 U	**17**	7.5 U	**16**	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	11/13/12	GEI	µg/L	8.02	7.05	*10 U*	**13**	*10 U*	**13**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/13/13	GEI	µg/L	8.42	6.65	**6**	8 U	**7**	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	02/10/16	GEI	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2B	08/19/16	GEI	µg/L	9.29	5.44	**6**	**6.9**	**6.5**	**6**	--	--	--	--	--	--	--	--
	02/15/17	GEI	µg/L	7.84	6.89	7.8 U	7.8 U	7 U	7 U	--	--	--	--	--	--	--	--
	08/23/17	GEI	µg/L	9.45	5.28	5.6 U	**8.2**	5 U	**8.3**	--	--	--	--	--	--	--	--
MW-3	09/04/01	Landau	µg/L	N/A	N/A	--	--	**1**	*10 U*	--	--	--	--	--	--	--	--
	09/04/01	Landau	µg/L	N/A	N/A	--	--	**2**	*10 U*	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	1 U	**2.7**	--	--	--	--	--	--	--	--
	06/05/02	Landau	µg/L	N/A	N/A	1 U	**3.4**	0.1 U	**0.33**	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*1.41 U*
	08/19/02	Landau	µg/L	N/A	N/A	**1**	**3.7**	--	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.07 U*
	11/17/06	Floyd|Snider	µg/L	4.45	10.38	**0.9**	**1.5**	--	--	**0.0052 J**	0.01 U	0.01 U	0.01 U	**0.0065 J**	0.01 U	0.01 U	**0.007 J**
	06/17/08	GEI	µg/L	5.03	9.8	**0.8**	**2.2**	--	--	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.013 U*
MW-3A	05/23/12	GEI	µg/L	10.55	4.28	4 U	8 U	4.5 U	8 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/16/12	GEI	µg/L	10.29	4.54	7.5 U	**19**	7.5 U	**18**	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	11/13/12	GEI	µg/L	7.5	7.33	8 U	**18**	8 U	**17**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/13/13	GEI	µg/L	9.55	5.28	8 U	**16**	8 U	**18**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/11/16	GEI	µg/L	8.73	6.1	--	**0.5 J**	--	0.5 U	--	--	--	--	--	--	--	--
	08/19/16	GEI	µg/L	9.74	5.09	--	7.8 U	--	7 U	--	--	--	--	--	--	--	--
	02/16/17	GEI	µg/L	9.01	5.82	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
	08/24/17	GEI	µg/L	10.06	4.77	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
MW-4	09/04/01	Landau	µg/L	N/A	N/A	--	--	**17**	*10 U*	--	--	--	--	--	--	--	--
	10/24/01	Landau	µg/L	N/A	N/A	--	--	**15**	**2.7**	--	--	--	--	--	--	--	--
	06/05/02	Landau	µg/L	N/A	N/A	**8**	**3.4**	**9**	**1.1**	--	--	--	--	--	--	--	--
	08/19/02	Landau	µg/L	N/A	N/A	**12**	**3.3**	--	--	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.07 U*
	11/17/06	Floyd|Snider	µg/L	2.55	11.03	**11.6**	**2**	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 U
	06/17/08	GEI	µg/L	2.98	10.6	**8.1**	**1.1**	--	--	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.018 U*	*0.013 U*
	08/16/12	GEI	µg/L	3.04	10.54	*9 U*	*20 U*	*9.5 U*	*20 U*	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	08/16/12	GEI	µg/L	4.37	9.21	**11**	8 U	**10**	8 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	11/13/12	GEI	µg/L	3.31	10.27	*10 U*	5 U	*10 U*	5 U	**0.033**	**0.02**	**0.021**	**0.018**	**0.021**	**0.018**	**0.021**	**0.031**
	02/13/13	GEI	µg/L	3.45	10.13	8 U	8 U	8 U	8 U	0.0095 U	0.0095 U	0.0095 U	**0.011**	**0.013**	0.0095 U	0.0095 U	**0.015**
	02/11/16	GEI	µg/L	3.61	9.97	**3.5**	--	**3.5**	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 U
	08/18/16	GEI	µg/L	5.43	8.15	7.8 U	--	7.8 U	--	**0.013**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.008**
	02/15/17	GEI	µg/L	3.97	9.61	5.6 U	--	5 U	--	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/24/17	GEI	µg/L	5.48	8.1	5.6 U	--	5 U	--	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
MW-5	06/17/08	GEI	µg/L	4.5	8.24	**10**	**5.2**	--	--	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.013 U

Groundwater Monitoring Well[1]	Date Sampled	Sampled By	Units	Depth to Water (Feet)	Water Elevation (MLLW)	Total Metals[2]		Dissolved Metals[2]		Carcinogenic Polycyclic Aromatic Hydrocarbons[3] (cPAHs)							
						Arsenic	Nickel	Arsenic	Nickel	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Total cPAH TEQ[4] (ND=0.5RL)
MW-6	05/23/12	GEI	µg/L	7.52	4.94	3.5 U	*20 U*	3 U	*20 U*	**0.01**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	**0.008**
	08/16/12	GEI	µg/L	7.52	4.94	7.5 U	**18**	7.5 U	**19**	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	11/13/12	GEI	µg/L	8.81	3.65	8 U	**18**	8 U	**18**	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.007 U
	02/13/13	GEI	µg/L	6.6	5.86	8 U	8 U	8 U	8 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.007 U
	02/11/16	GEI	µg/L	5.48	6.98	--	0.4 U	--	0.4 U	--	--	--	--	--	--	--	--
	08/19/16	GEI	µg/L	7.82	4.64	--	7.8 U	--	7 U	--	--	--	--	--	--	--	--
	02/16/17	GEI	µg/L	6.23	6.23	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
	08/24/17	GEI	µg/L	7.34	5.12	--	5.6 U	--	5 U	--	--	--	--	--	--	--	--
MW-7	05/23/12	GEI	µg/L	6.48	6.88	*11 U*	*20 U*	*9.8 U*	*20 U*	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/16/12	GEI	µg/L	6.68	6.68	**10**	**27**	7.5 U	**27**	**0.027**	0.0094 U	**0.014**	0.0094 U	**0.014**	0.0094 U	0.0094 U	**0.01**
	11/13/12	GEI	µg/L	6.04	7.32	8 U	**18**	8 U	**19**	**0.013**	**0.0097**	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	**0.013**
	02/13/13	GEI	µg/L	6.47	6.89	**9**	**18**	**8**	**18**	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.007 U
	02/10/16	GEI	µg/L	6.46	6.9	**12.9**	**9.9**	**13**	**5.2 J**	--	--	--	--	--	--	--	--
	08/19/16	GEI	µg/L	6.74	6.62	**12**	**11**	**11**	**10**	--	--	--	--	--	--	--	--
	02/16/17	GEI	µg/L	5.49	7.87	**9.2**	**6.7**	**7.1**	**6.6**	--	--	--	--	--	--	--	--
	08/23/17	GEI	µg/L	6.69	6.67	**14**	**8.8**	**12**	**9.3**	--	--	--	--	--	--	--	--
MW-8	02/10/16	GEI	µg/L	7.01	6.79	**16.6**	**9.1**	**16.1**	**7.4**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U
	02/10/16	GEI	µg/L	7.01	6.79	**16.1**	**8.4**	**16.3**	**7.8**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U
	08/18/16	GEI	µg/L	7.71	6.09	**16**	7.8 U	**15**	7.8 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U
	08/18/16	GEI	µg/L	7.71	6.09	**14**	7.8 U	**14**	7.8 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 U
	02/15/17	GEI	µg/L	6.69	7.11	**12**	5.6 U	**12**	5 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	02/15/17	GEI	µg/L	6.69	7.11	5.6 U	5.6 U	5 U	5 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.007 U
	08/23/17	GEI	µg/L	7.71	6.09	**17**	**6.7**	**17**	5.6 U	**0.1**	**0.12**	**0.18**	**0.068**	**0.14**	0.024 U	**0.094**	**0.167**
	08/23/17	GEI	µg/L	7.71	6.09	**17**	**6**	**15**	5.6 U	**0.02**	**0.029**	**0.042**	**0.014**	**0.029**	0.0094 U	**0.026**	**0.04**
Site-Specific Groundwater Cleanup Level (µg/L)						**8**	**8.2**	**8**	**8.2**	see cPAH TEQ							0.01

Notes:

[1] Monitoring well locations shown in Figure 2.

[2] Total and dissolved metals analyzed by United States Environmental Protection Agency (EPA) Method 200.8.

[3] Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) analyzed by EPA method 8270/SIM.

[4] Total cPAHs calculated using toxic equivalency quotient (TEQ) methodology relative to benzo(a)pyrene. cPAHs that were not detected were assigned a value of one half of the reporting limit for these calculations.

MLLW = Mean Lower Low Water

µg/L = microgram per liter

ND = Non-Detect

RL = Reporting Limit

U = Laboratory qualifier indicating analyte not detected at level above listed reporting limit

Bold indicates analyte was detected.

Italics indicates non-detect analyte concentration greater than the Site-Specific Groundwater Cleanup Level.

Shading indicates analyte was detected at a concentration greater than the Site-Specific Groundwater Cleanup Level.