



## FENCELINE AND INTERIOR FUGITIVE MONITORING – COKE OVEN BATTERIES ICR (10/19/22 – 2/1/23)

Cleveland-Cliffs Burns Harbor LLC  
Burns Harbor, Indiana Facility

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Burns Harbor, Indiana 46304-9745  
Client Reference No. TBD

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## COMMITMENT TO QUALITY

*Report Submittal:*

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## REPORT REVISION HISTORY

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Final	R0	03/03/2023	All	Final report including all data available at the time of submittal for the first 3 months of the test program.

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## ACRONYMS & ABBREVIATIONS

AAS (atomic absorption spectrometry)  
 acfm (actual cubic feet per minute)  
 ACI (activated carbon injection)  
 ADL (above detection limit)  
 AIG (ammonia injection grid)  
 APC (air pollution control)  
 AQCS (air quality control system(s))  
 ASME (American Society of Mechanical Engineers)  
 ASTM (American Society for Testing and Materials)  
 BDL (below detection limit)  
 Btu (British thermal units)  
 CAM (compliance assurance monitoring)  
 CARB (California Air Resources Board)  
 CCM (Controlled Condensation Method)  
 CE (capture efficiency)  
 °C (degrees Celsius)  
 CEMS (continuous emissions monitoring system(s))  
 CFB (circulating fluidized bed)  
 CFR (Code of Federal Regulations)  
 cm (centimeter(s))  
 COMS (continuous opacity monitoring system(s))  
 CT (combustion turbine)  
 CTI (Cooling Technology Institute)  
 CTM (Conditional Test Method)  
 CVAAS (cold vapor atomic absorption spectroscopy)  
 CVAFS (cold vapor atomic fluorescence spectrometry)  
 DI H<sub>2</sub>O (de-ionized water)  
 %dv (percent, dry volume)  
 DLL (detection level limited)  
 DE (destruction efficiency)  
 DCI (dry carbon injection)  
 DGM (dry gas meter)  
 dscf (dry standard cubic feet)  
 dscfm (dry standard cubic feet per minute)  
 dscm (dry standard cubic meter)  
 ESP (electrostatic precipitator)  
 FAMS (flue gas adsorbent mercury speciation)  
 °F (degrees Fahrenheit)  
 FB (field blank)  
 FCC (fluidized catalytic cracking)  
 FCCU (fluidized catalytic cracking unit)  
 FEGT (furnace exit gas temperatures)  
 FF (fabric filter)  
 FGD (flue gas desulfurization)  
 FIA (flame ionization analyzer)  
 FID (flame ionization detector)  
 FPD (flame photometric detection)  
 FRB (field reagent blank)  
 FSTM (flue gas sorbent total mercury)  
 ft (feet or foot)  
 ft<sup>2</sup> (square feet)

ft<sup>3</sup> (cubic feet)  
 ft/sec (feet per second)  
 FTIR (Fourier Transform Infrared Spectroscopy)  
 FTRB (field train reagent blank)  
 g (gram(s))  
 GC (gas chromatography)  
 GFAAS (graphite furnace atomic absorption spectroscopy)  
 GFC (gas filter correlation)  
 gr/dscf (grains per dry standard cubic feet)  
 > (greater than)/ ≥ (greater than or equal to)  
 g/s (grams per second)  
 H<sub>2</sub>O (water)  
 HAP(s) (hazardous air pollutant(s))  
 HI (heat input)  
 hr (hour(s))  
 HR GC/MS (high-resolution gas chromatography and mass spectrometry)  
 HRVOC (highly reactive volatile organic compounds)  
 HSRG(s) (heat recovery steam generator(s))  
 HVT (high velocity thermocouple)  
 IC (ion chromatography)  
 IC/PCR (ion chromatography with post column reactor)  
 ICP/MS (inductively coupled argon plasma mass spectrometry)  
 ID (induced draft)  
 in. (inch(es))  
 in. H<sub>2</sub>O (inches water)  
 in. Hg (inches mercury)  
 IPA (isopropyl alcohol)  
 ISE (ion-specific electrode)  
 kg (kilogram(s))  
 kg/hr (kilogram(s) per hour)  
 < (less than)/ ≤ (less than or equal to)  
 L (liter(s))  
 lb (pound(s))  
 lb/hr (pound per hour)  
 lb/MMBtu (pound per million British thermal units)  
 lb/TBtu (pound per trillion British thermal units)  
 lb/lb-mole (pound per pound mole)  
 LR GC/MS (low-resolution gas chromatography and mass spectrometry)  
 m (meter)  
 m<sup>3</sup> (cubic meter)  
 MACT (maximum achievable control technology)  
 MASS® (Multi-Point Automated Sampling System)  
 MATS (Mercury and Air Toxics Standards)  
 MDL (method detection limit)  
 µg (microgram(s))  
 min. (minute(s))  
 mg (milligram(s))  
 ml (milliliter(s))  
 MMBtu (million British thermal units)

MW (megawatt(s))  
 NCASI (National Council for Air and Stream Improvement)  
 ND (non-detect)  
 NDIR (non-dispersive infrared)  
 NDO (natural draft opening)  
 NESHAP (National Emission Standards for Hazardous Air Pollutants)  
 ng (nanogram(s))  
 Nm<sup>3</sup> (Normal cubic meter)  
 % (percent)  
 PEMS (predictive emissions monitoring systems)  
 PFGC (pneumatic focusing gas chromatography)  
 pg (picogram(s))  
 PJFF (pulse jet fabric filter)  
 ppb (parts per billion)  
 PPE (personal protective equipment)  
 ppm (parts per million)  
 ppm<sub>dv</sub> (parts per million, dry volume)  
 ppm<sub>wv</sub> (parts per million, wet volume)  
 PSD (particle size distribution)  
 psi (pound(s) per square inch)  
 PTE (permanent total enclosure)  
 PTFE (polytetrafluoroethylene)  
 QA/QC (quality assurance/quality control)  
 QI (qualified individual)  
 QSTI (qualified source testing individual)  
 QSTO (qualified source testing observer)  
 RA (relative accuracy)  
 RATA (relative accuracy test audit)  
 RB (reagent blank)  
 RE (removal or reduction efficiency)  
 RM (reference method)  
 scf (standard cubic feet)  
 scfm (standard cubic feet per minute)  
 SCR (selective catalytic reduction)  
 SDA (spray dryer absorber)  
 SNCR (selective non-catalytic reduction)  
 STD (standard)  
 STMS (sorbent trap monitoring system)  
 TBtu (trillion British thermal units)  
 TEOM (Tapered Element Oscillating Microbalance)  
 TEQ (toxic equivalency quotient)  
 ton/hr (ton per hour)  
 ton/yr (ton per year)  
 TSS (third stage separator)  
 USEPA or EPA (United States Environmental Protection Agency)  
 UVA (ultraviolet absorption)  
 WFGD (wet flue gas desulfurization)  
 %wv (percent, wet volume)

# 1. PROJECT OVERVIEW

## TEST PROGRAM SUMMARY

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On June 29, 2022, the U.S. Environmental Protection Agency's (EPA) issued an Information Collection Request (ICR) to metallurgical coke manufacturing facilities. Cleveland-Cliffs Burns Harbor LLC (Burns Harbor) contracted Clean Air Engineering, Inc. (CleanAir) to satisfy the ICR requirements for the Burns Harbor, Indiana facility). The ICR required Burns Harbor to perform sampling and analysis of fugitive emissions at fenceline and interior locations. The complete program consists of:

- 1) A 3-month long characterization of ambient volatile organic compound (VOC) and polyaromatic hydrocarbons (PAH) at interior and fenceline locations
- 2) A 6-month long characterization of BTEX (Benzene, Toluene, Xylene, Ethylbenzene and 1,3 Butadiene) along the complete facility fenceline

The sampling approach and QA protocols for the test program are outlined in the Quality Assurance Project Plan (QAPP) approved by EPA on September 12, 2022. The field-testing portion of the test program began on October 19, 2022. This report contains the data collected through February 1, 2023 and is being timely submitted in accordance with Section A.9.9 of the EPA approved QAPP. A final report including all data obtained for the ICR program will be submitted once the 6-Month test program is completed.

The ICR required Burns Harbor to sample and analyze BTEX compounds (Benzene, Toluene, Xylene, Ethylbenzene and 1,3 Butadiene) using EPA Methods 325A and 325B, respectively. EPA Method 325A/B is a time integrated passive sampling and analysis approach that uses sorbent tubes to collect BTEX compounds. Based on the method sampling location siting criteria and the shape and size of the Burns Harbor facility, a total of 24 sampling locations were chosen and positioned along the fenceline of the facility. Each sampling period (i.e. Run) is approximately 14 days in duration. The complete program will consist of 13 total runs for a total of 182 days of monitoring. This report includes the results of EPA Method 325A/B Runs 1 through 7, which concluded on February 1, 2023.

The ICR also required fenceline and interior monitoring of volatile organic compounds (VOCs) and polycyclic aromatic compounds (PAHs) using Compendium Methods TO-15A and TO-13A, respectively. An alternate sampling and analysis approach using TO-15, in lieu of TO-15A, was approved during a call with EPA on August 9, 2022 and confirmed by EPA in written correspondence dated September 1, 2022. The TO-13A method includes collection of PAHs using a high-volume sampling approach and collection on PUF sample cartridges. TO-13A analysis is by gas chromatography and mass spectrometry (GC/MS). TO-15 used an integrated summa canister sampling approach and GC/MS analysis of air samples. TO-13A and TO-15 were performed at two (2) interior process locations, two (2) downwind locations and one (1) upwind location.

A total of seven (7) TO-13A and TO-15 samples were required by the ICR. Samples were required to be co-located, obtained over an approximate 24-hour period and be within each EPA Method 325A/B 13-day sampling period. This report includes VOC and PAH results for Runs 1 through 7, which concluded on January 24, 2023.

In addition to fugitive emission monitoring and in accordance with EPA Method 325A, meteorological data was required to be obtained during the test program. Meteorological data, including wind speed, wind direction and temperature, were generated by the Dune Acres monitoring station (AQS ID: 18-127-0011), which is near the fenceline of the Burns Harbor facility. In addition, barometric pressure measurements are reported from the

Gary-IITRI monitoring station in Gary, Indiana (AQS ID: 18-089-0022), which is located approximately 9 miles from the facility center.

As required, summary data for the program was recorded into an electronic Excel workbook template provided by the EPA at the time of the ICR. This workbook includes both fugitive emission and meteorological data. The workbook for this test program is referenced as follows:

- ANSWER-FUGITIVE-Coke Enc2\_Test Results\_Cleveland-Cliffs\_BurnsHarbor\_3-Month\_FINAL\_R0.xlsx

The final workbook including all required data parameters was submitted electronically via email as instructed in the ICR. This electronic report document includes summary results as well as raw sampling and laboratory data in support of the electronic data workbook submittal.

A summary of the test program results is presented in Section 2 Results.

## TEST PROGRAM DETAILS

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### PARAMETERS

The base scope test program included the following measurements:

#### *EPA Method 325A/B BTEX Parameters:*

- Benzene (C<sub>6</sub>H<sub>6</sub>)
- Toluene (C<sub>7</sub>H<sub>8</sub>)
- Xylene isomers, ortho, meta, para (C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>)
- Ethyl benzene (C<sub>6</sub>H<sub>5</sub>C<sub>2</sub>H<sub>5</sub>)
- 1,3 Butadiene
- Additional measurements:
  - Temperature (°C)

#### *Compendium Method TO-13A – PAHs*

##### **PAHs**

- |                        |                          |
|------------------------|--------------------------|
| • Acenaphthene         | • Chrysene               |
| • Acenaphthylene       | • Dibenzo(a,h)anthracene |
| • Anthracene           | • Fluoranthene           |
| • Benzo(a) anthracene  | • Fluorene               |
| • Benzo(a)pyrene       | • Indeno(1,2,3-cd)pyrene |
| • Benzo(b)fluoranthene | • Naphthalene            |
| • Benzo(e)pyrene       | • Perylene               |
| • Benzo(g,h,i)perylene | • Phenanthrene           |
| • Benzo(k)fluoranthene | • Pyrene                 |

##### **Additional Parameters**

- Temperature (°C)
- Barometric Pressure (in Hg)

## Compendium Method TO-15 - VOCs

### VOCs

- Acetone
- Benzene
- Benzyl chloride
- Bromodichloromethane
- Bromoform
- Bromomethane
- 1,3-Butadiene
- 2-Butanone (MEK)
- Carbon Disulfide
- Carbon Tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Cyclohexane
- Dibromochloromethane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane (Freon 12)
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- cis-1,2-Dichloroethylene
- trans-1,2-Dichloroethylene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)
- 1,4-Dioxane
- Ethanol
- Ethyl Acetate
- Ethylbenzene
- 4-Ethyltoluene
- Heptane
- Hexachlorobutadiene
- Hexane
- 2-Hexanone (MBK)
- Isopropanol
- Methyl tert-Butyl Ether (MTBE)
- Methylene Chloride
- 4-Methyl-2-pentanone (MIBK)
- Naphthalene
- Propene
- Styrene
- Tetrahydrofuran
- Toluene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Trichlorofluoromethane (Freon 11)
- 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl Acetate
- Vinyl Chloride
- m&p-Xylene
- o-Xylene

## Meteorological Parameters

### Dune Acres Monitoring Station

- Temperature (°F)
- Relative Humidity (%)
- Wind Speed (m/s)

### Gary-IITRI Monitoring Station

- Barometric Pressure (in Hg)

## SCHEDULE

The schedule of activities for the 3-month test program is shown in Table 1-1.

**Table 1-1:**  
**Fenceline and Interior Monitoring Schedule of Activities – 3-Month Test Program**

Run No.	Method	Location	Start		End		Notes
			Date	Time	Date	Time	
1	EPA Method 325A/B	Sampler 01-24	10/19/2022	09:19	11/7/2022	12:27	1
1	TO-13A	Interior Station 1 (INT1)	10/27/2022	16:25	10/28/2022	15:22	
1	TO-13A	Interior Station 2 (INT2)	10/27/2022	16:45	10/28/2022	15:37	
1	TO-13A	Downwind Station 1 (DW1)	10/27/2022	15:00	10/28/2022	14:07	
1	TO-13A	Downwind Station 2 (DW2)	10/27/2022	15:42	10/28/2022	14:49	
1	TO-13A	Upwind Station (UW)	10/27/2022	14:17	10/28/2022	12:57	
1	TO-15	Interior Station 2 (INT2)	10/27/2022	16:45	10/28/2022	15:38	
1	TO-15	Downwind Station 1 (DW1)	10/27/2022	15:00	10/28/2022	14:07	
1	TO-15	Downwind Station 2 (DW2)	10/27/2022	15:42	10/28/2022	14:49	
1	TO-15	Upwind Station (UW)	10/27/2022	14:19	10/28/2022	12:57	
2	EPA Method 325A/B	Sampler 01-24	11/7/2022	09:21	11/21/2022	13:59	1
2	TO-13A	Interior Station 1 (INT1)	11/8/2022	09:56	11/9/2022	09:34	
2	TO-13A	Interior Station 2 (INT2)	11/8/2022	10:21	11/9/2022	10:00	
2	TO-13A	Downwind Station 1 (DW1)	11/8/2022	10:53	11/9/2022	10:35	
2	TO-13A	Downwind Station 2 (DW2)	11/8/2022	11:25	11/9/2022	11:15	
2	TO-13A	Upwind Station (UW)	11/8/2022	12:32	11/9/2022	12:00	
2	TO-15	Interior Station 1 (INT1)	11/8/2022	09:43	11/9/2022	09:34	
2	TO-15	Interior Station 2 (INT2)	11/8/2022	10:08	11/9/2022	09:59	
2	TO-15	Downwind Station 1 (DW1)	11/8/2022	10:49	11/9/2022	10:33	
2	TO-15	Downwind Station 2 (DW2)	11/8/2022	11:36	11/9/2022	11:14	
2	TO-15	Upwind Station (UW)	11/8/2022	12:40	11/9/2022	11:59	

Notes: 1. EPA Method 325A/B 14-day test periods overlap. The start date/time of the test period begins at the earliest sampler deployment and ends at the retrieval time of the last sampler. Individual test times for Method 325B sampler locations are included in the results tables.

-table continued-

**Table 1-1**  
**Fenceline and Interior Monitoring Schedule of Activities – 3-Month Test Program (Continued)**

Run No.	Method	Location	Start		End		Notes
			Date	Time	Date	Time	
3	EPA Method 325A/B	Sampler 01-24	11/21/2022	11:08	12/6/2022	11:24	1
3	TO-13A	Interior Station 1 (INT1)	11/22/2022	12:56	11/23/2022	11:12	
3	TO-13A	Interior Station 2 (INT2)	11/22/2022	12:35	11/23/2022	10:53	
3	TO-13A	Downwind Station 1 (DW1)	11/22/2022	13:36	11/23/2022	11:36	
3	TO-13A	Downwind Station 2 (DW2)	11/22/2022	14:09	11/23/2022	12:09	
3	TO-13A	Upwind Station (UW)	11/22/2022	14:42	11/23/2022	12:45	
3	TO-15	Interior Station 1 (INT1)	11/22/2022	12:58	11/23/2022	11:09	
3	TO-15	Interior Station 2 (INT2)	11/22/2022	12:18	11/23/2022	10:46	
3	TO-15	Downwind Station 1 (DW1)	11/22/2022	13:40	11/23/2022	11:32	
3	TO-15	Downwind Station 2 (DW2)	11/22/2022	14:13	11/23/2022	12:06	
3	TO-15	Upwind Station (UW)	11/22/2022	14:51	11/23/2022	12:42	
4	EPA Method 325A/B	Sampler 01-24	12/6/2022	08:34	12/19/2022	15:26	1
4	TO-13A	Interior Station 1 (INT1)	12/6/2022	12:30	12/7/2022	11:55	
4	TO-13A	Interior Station 2 (INT2)	12/6/2022	12:16	12/7/2022	11:33	
4	TO-13A	Downwind Station 1 (DW1)	12/6/2022	13:08	12/7/2022	12:16	
4	TO-13A	Downwind Station 2 (DW2)	12/6/2022	13:38	12/7/2022	12:48	
4	TO-13A	Upwind Station (UW)	12/6/2022	14:09	12/7/2022	13:36	
4	TO-15	Interior Station 1 (INT1)	12/6/2022	13:34	12/7/2022	11:53	
4	TO-15	Interior Station 2 (INT2)	12/6/2022	12:18	12/7/2022	11:33	
4	TO-15	Downwind Station 1 (DW1)	12/6/2022	13:09	12/7/2022	12:17	
4	TO-15	Downwind Station 2 (DW2)	12/6/2022	13:39	12/7/2022	12:48	
4	TO-15	Upwind Station (UW)	12/6/2022	14:09	12/7/2022	13:35	
5	EPA Method 325A/B	Sampler 01-24	12/19/2022	12:46	1/4/2023	13:28	1
5	TO-13A	Interior Station 1 (INT1)	12/20/2022	11:06	12/21/2022	10:09	
5	TO-13A	Interior Station 2 (INT2)	12/20/2022	11:34	12/21/2022	10:43	
5	TO-13A	Downwind Station 1 (DW1)	12/20/2022	12:14	12/21/2022	11:05	
5	TO-13A	Downwind Station 2 (DW2)	12/20/2022	13:03	12/21/2022	11:35	
5	TO-13A	Upwind Station (UW)	12/20/2022	14:00	12/21/2022	12:08	
5	TO-15	Interior Station 1 (INT1)	12/20/2022	10:43	12/21/2022	10:07	
5	TO-15	Interior Station 2 (INT2)	12/20/2022	11:13	12/21/2022	10:37	
5	TO-15	Downwind Station 1 (DW1)	12/20/2022	11:51	12/21/2022	11:01	
5	TO-15	Downwind Station 2 (DW2)	12/20/2022	12:43	12/21/2022	11:30	
5	TO-15	Upwind Station (UW)	12/20/2022	13:43	12/21/2022	12:04	

Notes: 1. EPA Method 325A/B 14-day test periods overlap. The start date/time of the test period begins at the earliest sampler deployment and ends at the retrieval time of the last sampler. Individual test times for Method 325B sampler locations are included in the results tables.

-table continued-

**Table 1-1**  
**Fenceline and Interior Monitoring Schedule of Activities – 3-Month Test Program (Continued)**

Run No.	Method	Location	Start		End		Notes
			Date	Time	Date	Time	
6	EPA Method 325A/B	Sampler 01-12 <sup>1</sup>	1/3/2023	12:06	1/17/2023	14:43	1
6	TO-13A	Interior Station 1 (INT1)	1/4/2023	11:29	1/5/2023	10:08	
6	TO-13A	Interior Station 2 (INT2)	1/4/2023	11:53	1/5/2023	10:32	
6	TO-13A	Downwind Station 1 (DW1)	1/4/2023	12:17	1/5/2023	10:53	
6	TO-13A	Downwind Station 2 (DW2)	1/4/2023	12:43	1/5/2023	11:22	
6	TO-13A	Upwind Station (UW)	1/4/2023	13:17	1/5/2023	11:57	
6	TO-15	Interior Station 1 (INT1)	1/4/2023	11:11	1/5/2023	10:05	
6	TO-15	Interior Station 2 (INT2)	1/4/2023	11:36	1/5/2023	10:28	
6	TO-15	Downwind Station 1 (DW1)	1/4/2023	12:02	1/5/2023	10:50	
6	TO-15	Downwind Station 2 (DW2)	1/4/2023	12:32	1/5/2023	11:20	
6	TO-15	Upwind Station (UW)	1/4/2023	13:03	1/5/2023	11:54	
7	EPA Method 325A/B	Sampler 01-24	1/17/2023	11:52	2/1/2023	12:37	1
7	TO-13A	Interior Station 1 (INT1)	1/23/2023	11:45	1/24/2023	10:07	
7	TO-13A	Interior Station 2 (INT2)	1/23/2023	12:06	1/24/2023	10:27	
7	TO-13A	Downwind Station 1 (DW1)	1/23/2023	12:31	1/24/2023	10:54	
7	TO-13A	Downwind Station 2 (DW2)	1/23/2023	12:58	1/24/2023	11:29	
7	TO-13A	Upwind Station (UW)	1/23/2023	13:31	1/24/2023	12:02	
7	TO-15	Interior Station 1 (INT1)	1/23/2023	11:24	1/24/2023	10:05	
7	TO-15	Interior Station 2 (INT2)	1/23/2023	11:52	1/24/2023	10:24	
7	TO-15	Downwind Station 1 (DW1)	1/23/2023	12:15	1/24/2023	10:51	
7	TO-15	Downwind Station 2 (DW2)	1/23/2023	12:47	1/24/2023	11:26	
7	TO-15	Upwind Station (UW)	1/23/2023	13:17	1/24/2023	12:00	

Notes: 1. EPA Method 325A/B 14-day test periods overlap. The start date/time of the test period begins at the earliest sampler deployment and ends at the retrieval time of the last sampler. Individual test times for Method 325B sampler locations are included in the results tables.

-table continued-

## DISCUSSION

### Monitoring Site Naming and Specifications

Table 1-2 lists the name, GPS coordinates, and testing conducted at each of the monitoring locations. TO-13A and TO-15 sampling locations were collocated.

Figure 1-1 shows the approximate location of each of the fenceline BTEX sampling locations (i.e. EPA Method 325A) at Burns Harbor with the location of the meteorological station used to provide data.

Figure 1-2 shows the approximate location of each of the fenceline and interior TO-13A and TO-15 monitoring locations at Burns Harbor. More detailed information on the monitoring sites is included in Section 3 of this report and the approved QAPP.

**Table 1-2:**  
**Monitoring/Testing Site Naming and Specifications**

Site Designation	Approximate Site Location	Monitored Parameters	Approximate Probe / Sensor Level Above Grade (meters)
Downwind Station 1 (DW1)	41°38'4.74"N, 87°8'56.66" W	PAH, VOC	2
Downwind Station 2 (DW2)	41°38'49.26"N, 87°7'47.87"W	PAH, VOC	2
Upwind Station (UW)	41°36'59.87"N, 87°8'49.17"W	PAH, VOC	2
Interior Station 1 (INT1)	41°37'37.50"N, 87° 8'40.72"W	PAH, VOC	2
Interior Station 2 (INT2)	41°37'31.87"N, 87° 8'40.32"W	PAH, VOC	2
Sampler 01 (S01)	41°38'31.54"N, 87° 8'17.15"W	BTEX, 1,3-Butadiene	2
Sampler 02 (S02)	41°38'35.19"N, 87° 8'46.79"W	BTEX, 1,3-Butadiene	2
Sampler 03 (S03)	41°38'26.36"N, 87° 8'48.05"W	BTEX, 1,3-Butadiene	2
Sampler 04 (S04)	41°38'14.62"N, 87° 8'48.58"W	BTEX, 1,3-Butadiene	2
Sampler 05 (S05)	41°38'4.57"N, 87° 8'56.54"W	BTEX, 1,3-Butadiene	2
Sampler 06 (S06)	41°37'53.13"N, 87° 8'55.78"W	BTEX, 1,3-Butadiene	2
Sampler 07 (S07)	41°37'39.53"N, 87° 8'56.53"W	BTEX, 1,3-Butadiene	2
Sampler 08 (S08)	41°37'5.22"N, 87° 9'10.33"W	BTEX, 1,3-Butadiene	2
Sampler 09 (S09)	41°36'59.50"N, 87° 8'48.19"W	BTEX, 1,3-Butadiene	2
Sampler 10 (S10)	41°37'12.97"N, 87° 8'15.38"W	BTEX, 1,3-Butadiene	2
Sampler 11 (S11)	41°37'13.16"N, 87° 7'54.74"W	BTEX, 1,3-Butadiene	2
Sampler 12 (S12)	41°37'29.22"N, 87° 7'39.39"W	BTEX, 1,3-Butadiene	2
Sampler 13 (S13)	41°37'31.42"N, 87° 7'21.12"W	BTEX, 1,3-Butadiene	2
Sampler 14 (S14)	41°37'44.00"N, 87° 6'58.00"W	BTEX, 1,3-Butadiene	2
Sampler 15 (S15)	41°37'49.85"N, 87° 6'50.61"W	BTEX, 1,3-Butadiene	2
Sampler 16 (S16)	41°37'51.56"N, 87° 6'43.23"W	BTEX, 1,3-Butadiene	2
Sampler 17 (S17)	41°37'58.00"N, 87° 6'18.00"W	BTEX, 1,3-Butadiene	2
Sampler 18 (S18)	41°38'9.62"N, 87° 6'19.35"W	BTEX, 1,3-Butadiene	2
Sampler 19 (S19)	41°38'11.86"N, 87° 6'37.06"W	BTEX, 1,3-Butadiene	2
Sampler 20 (S20)	41°38'11.69"N, 87° 6'56.39"W	BTEX, 1,3-Butadiene	2
Sampler 21 (S21)	41°38'13.86"N, 87° 7'16.86"W	BTEX, 1,3-Butadiene	2
Sampler 22 (S22)	41°38'15.00"N, 87° 7'34.00"W	BTEX, 1,3-Butadiene	2
Sampler 23 (S23)	41°38'33.61"N, 87° 7'36.56"W	BTEX, 1,3-Butadiene	2
Sampler 24 (S24)	41°38'48.66"N, 87° 7'47.76"W	BTEX, 1,3-Butadiene	2

**Figure 1-1:**  
**Cleveland-Cliffs Burns Harbor – Fenceline Sampling Locations and MET Station – EPA Method 325A (BTEX)**



**Figure 1-2:**  
**Cleveland-Cliffs Burns Harbor – Fenceline and Interior Sampling Locations – TO-13A (PAH) and TO-15 (VOC)**



### Corrective Actions

Minor corrective actions were documented during the first three months of the test program. These are shown in Table 1-3 for reference including the impact on the data validity or means of interpretation as applicable.

**Table 1-3:  
Corrective Actions**

Date	Location	CA ID No. Notes	Discussion/Corrective Action
10/27/22	INT1	CA_14777-1	<p>A TO-15 sample was not collected at the INT1 location during the first monitoring period (Run 1). The initial order from the TO-15 laboratory contained 5 SUMMA cans instead of 6. CleanAir's field technician prioritized QA activities (duplicate samples) over coverage of every monitoring station.</p> <p>CleanAir coordinated with the laboratory to ensure all future orders contained 6 SUMMA cans.</p>

*End of Section*

## 2. RESULTS

This section summarizes the test program results. Supporting documentation and laboratory data is provided in the Appendix.

### EPA Method 325A/B

Table 2-1 shows the measured benzene concentrations and the background-corrected fenceline concentrations for each station. The table shows the concentration for each sampling event and the average for the 7 sampling periods. The raw BTEX and 1,3-Butadiene results are contained in Tables 2-2 to 2-25 and Figures 2-1 to 2-24. Two duplicate and two blank samples were collected during each sampling period. The duplicate and blank results are in Tables 2-26 to 2-29. Figure 2-25 shows the distribution of the benzene concentrations at each sampling location. Figures 2-26 and 2-27 contain wind rose plots for each sampling period.

### Mobile and External BTEX Sources

The highest benzene concentrations were measured at stations S02, S03, S04, and S05 – which were generally not downwind of the coke oven battery. These locations are located on the northwest fenceline of the property and directly adjacent to offloading operations at the Port of Indiana Burns Harbor. The Port operations including offloading of organic materials, marine diesel engine operation, and other mobile fugitive sources (e.g., locomotive railcar, heavy machinery) can impact BTEX concentrations. The highest concentrations at these Burns Harbor Port locations occurred when the wind direction supports a determination that off-site sources had a significant impact on the monitoring results.

### Compendium Method TO-13A

PAH results are contained in Tables 2-30 to 2-36. Figures 2-28 and 2-29 contain wind rose plots for each sampling period. A blank sample was analyzed for each sampling period. The blank results are not contained in the ICR template workbook because the results are in units of total mass instead of concentration. The results of blank analysis are contained in the laboratory reports in Appendix D.

A five-point flow calibration was conducted on the high-volume sampler prior to the first sampling event. One-Point flow rate verifications were conducted before and after each sampling event. The results of the five-point calibrations and one-point flow verifications are contained on the field data sheets in Appendix C.

### Compendium Method TO-15

VOC results are contained in Tables 2-37 to 2-44. Figures 2-30 and 2-31 contain wind rose plots for each sampling period. One co-located duplicate sample was collected for each sampling period. The duplicate samples are designated with Sample IDs ending in “\_D1” and “\_D2”. In the ICR data file, the “\_D1” samples are the regular samples, and the “\_D2” samples are the duplicate samples. Results of the duplicate samples are shown with the regular samples in Tables 2-32 to 2-38. A comparison of duplicate samples is contained in Appendix C.

**Table 2-1:**  
**Fenceline Benzene Results – EPA Method 325A/B (Runs 1 – 7)**

Sampling Location	MFCi, Measured Fenceline Concentration (µg/m <sup>3</sup> )								ΔCi, Fenceline Concentration corrected for background (µg/m <sup>3</sup> )							
	R01	R02	R03	R04	R05	R06	R07	AVG	R01	R02	R03	R04	R05	R06	R07	AVG
S01	1.6	1.1	2.7	0.86	2.1	0.93	1.5	<b>1.54</b>	1.24	0.73	2.25	0.37	1.58	0.47	0.84	<b>1.07</b>
S02	5.8	2	4.1	0.82	2.3	3.1	1.8	<b>2.85</b>	5.44	1.63	3.65	0.33	1.78	2.64	1.14	<b>2.37</b>
S03	5.2	1.6	4	0.71	1.4	2.6	1.4	<b>2.42</b>	4.84	1.23	3.55	0.22	0.88	2.14	0.74	<b>1.94</b>
S04	5.7	1.9	3.6	1.3	1.6	2.2	2	<b>2.61</b>	5.34	1.53	3.15	0.81	1.08	1.74	1.34	<b>2.14</b>
S05	2.7	1.4	1.9	2.8	1.4	3.4	7	<b>2.94</b>	2.34	1.03	1.45	2.31	0.88	2.94	6.34	<b>2.47</b>
S06	1.4	1	1.3	1.8	1.5	1.6	1.3	<b>1.41</b>	1.04	0.63	0.85	1.31	0.98	1.14	0.64	<b>0.94</b>
S07	1.9	2.7	0.93	4.9	1.1	0.79	1.2	<b>1.93</b>	1.54	2.33	0.48	4.41	0.58	0.33	0.54	<b>1.46</b>
S08	0.64	0.59	0.76	0.72	0.57	0.63	0.84	<b>0.68</b>	0.28	0.22	0.31	0.23	0.05	0.17	0.18	<b>0.21</b>
S09	0.36	0.37	0.45	0.51	0.52	0.69	0.66	<b>0.51</b>	0	0	0	0.02	0	0.23	0	<b>0.04</b>
S10	0.75	1.4	0.86	0.75	0.64	0.95	1.5	<b>0.98</b>	0.39	1.03	0.41	0.26	0.12	0.49	0.84	<b>0.51</b>
S11	0.54	1.4	0.68	0.77	0.99	0.67	1.2	<b>0.89</b>	0.18	1.03	0.23	0.28	0.47	0.21	0.54	<b>0.42</b>
S12	0.49	0.57	0.92	0.6	1.1	0.57	1.3	<b>0.79</b>	0.13	0.2	0.47	0.11	0.58	0.11	0.64	<b>0.32</b>
S13	0.53	0.57	0.84	0.58	1.2	0.57	0.88	<b>0.74</b>	0.17	0.2	0.39	0.09	0.68	0.11	0.22	<b>0.27</b>
S14	0.42	0.5	0.82	0.58	1.2	0.5	0.89	<b>0.70</b>	0.06	0.13	0.37	0.09	0.68	0.04	0.23	<b>0.23</b>
S15	0.39	0.52	0.98	0.49	0.91	0.46	0.73	<b>0.64</b>	0.03	0.15	0.53	0	0.39	0	0.07	<b>0.17</b>
S16	0.47	0.61	0.86	0.56	1.1	0.55	0.82	<b>0.71</b>	0.11	0.24	0.41	0.07	0.58	0.09	0.16	<b>0.24</b>
S17	0.4	0.54	0.88	0.59	0.93	0.55	1	<b>0.70</b>	0.04	0.17	0.43	0.1	0.41	0.09	0.34	<b>0.23</b>
S18	0.42	0.62	0.74	0.71	0.75	0.61	0.73	<b>0.65</b>	0.06	0.25	0.29	0.22	0.23	0.15	0.07	<b>0.18</b>
S19	0.45	0.86	0.76	0.83	0.81	0.67	0.81	<b>0.74</b>	0.09	0.49	0.31	0.34	0.29	0.21	0.15	<b>0.27</b>
S20	0.5	1.2	0.83	1.3	1	1	1.4	<b>1.03</b>	0.14	0.83	0.38	0.81	0.48	0.54	0.74	<b>0.56</b>
S21	1.8	0.98	0.84	1.3	0.95	0.88	1.7	<b>1.21</b>	1.44	0.61	0.39	0.81	0.43	0.42	1.04	<b>0.73</b>
S22	0.82	1	1.2	1.1	0.94	1.2	1.3	<b>1.08</b>	0.46	0.63	0.75	0.61	0.42	0.74	0.64	<b>0.61</b>
S23	0.94	1.1	1.3	1.1	0.92	1.4	1.2	<b>1.14</b>	0.58	0.73	0.85	0.61	0.4	0.94	0.54	<b>0.66</b>
S24	0.6	0.58	0.95	0.8	0.68	0.68	0.96	<b>0.75</b>	0.24	0.21	0.5	0.31	0.16	0.22	0.3	<b>0.28</b>

1. MFCi is the EPA Method 325B measured value at the specific monitoring location, in accordance with EPA Method 325B.
2. ΔCi is the concentration corrected for background, by subtracting the minimum concentration observed at Samplers S01-S024 for each sampling event, in accordance with the ΔCi calculation in 40 CFR 63.658 (i)(2)(i).
3. Highlighted cells are the lowest measured concentrations (UB) for each sampling event.

**Table 2-2:**  
**Fenceline BTEX Results – Sampler 01 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp (°C)	Compound	Rep. Limit (µg/m <sup>3</sup> )	Concentration (µg/m <sup>3</sup> )		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:11	11/7/22 9:16	12.9	1,3-Butadiene	0.21	0.10		U
				Benzene	0.28	1.6	1.24	
				Toluene	0.36	0.82		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.32		J
				o-Xylene	0.40	0.20		U
2	11/7/22 9:21	11/21/22 11:07	3.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	1.1	0.73	
				Toluene	0.50	0.59		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 11:08	12/6/22 9:26	3.9	1,3-Butadiene	0.29	0.13		U
				Benzene	0.38	2.7	2.25	
				Toluene	0.50	1.2		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.38		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:26	12/19/22 12:42	0.7	1,3-Butadiene	0.31	0.15		U
				Benzene	0.42	0.86	0.37	
				Toluene	0.53	0.56		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 12:46	1/3/23 12:04	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	2.1	1.58	P
				Toluene	0.47	0.93		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.33		J
				o-Xylene	0.52	0.26		U
6	1/3/23 12:06	1/17/23 11:50	2.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	0.93	0.47	
				Toluene	0.50	0.47		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 11:52	2/1/23 9:48	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	1.5	0.84	
				Toluene	0.47	0.76		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

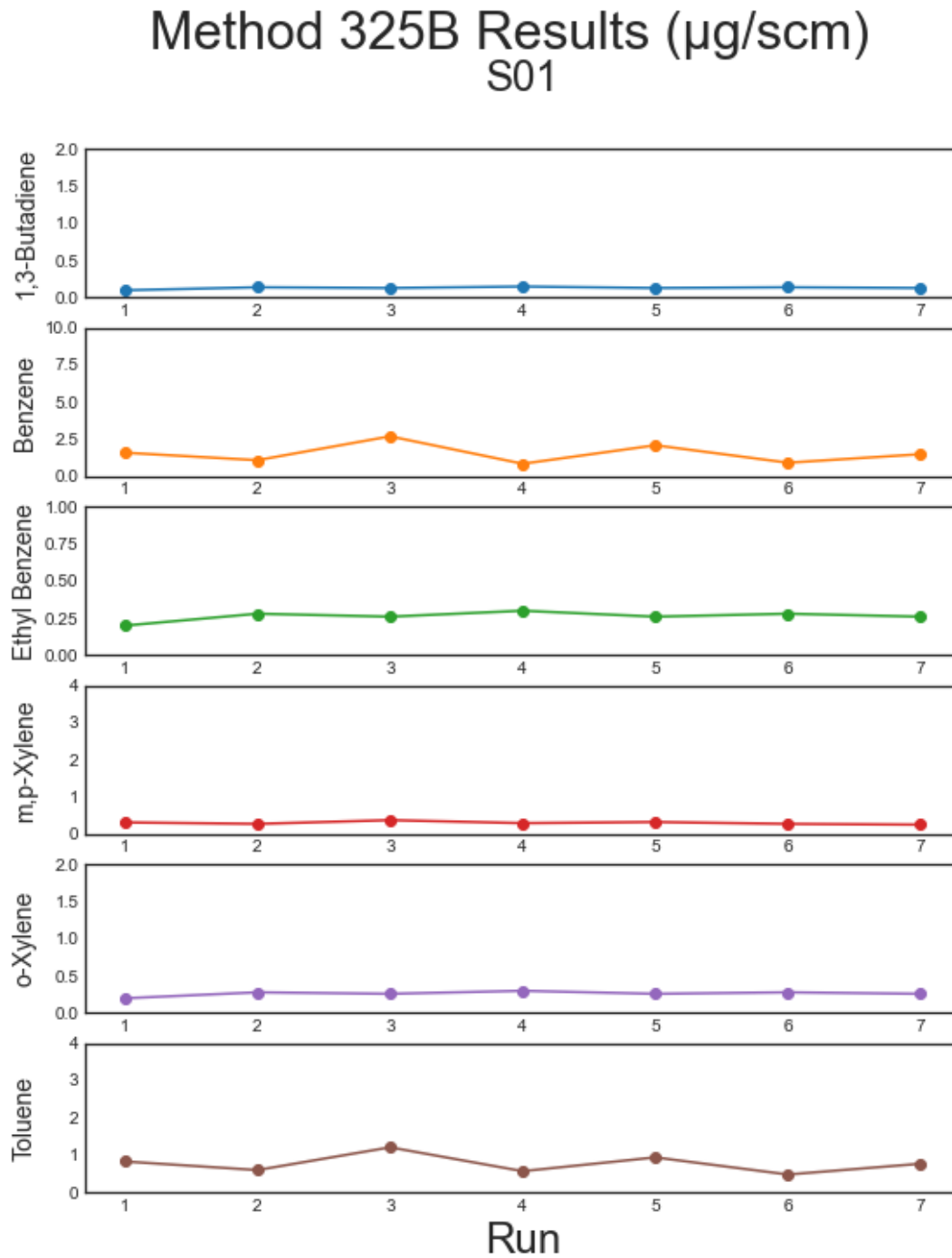
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-1:**  
**Fenceline BTEX Chart – Sampler 01 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-3:**  
**Fenceline BTEX Results – Sampler 02 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:22	11/7/22 9:33	12.9	1,3-Butadiene	0.21	0.10	5.4	U
				Benzene	0.28	5.8		
				Toluene	0.36	1.8		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.62		
				o-Xylene	0.40	0.20		U
2	11/7/22 9:35	11/21/22 11:19	3.5	1,3-Butadiene	0.29	0.14	1.6	U
				Benzene	0.38	2.0		
				Toluene	0.50	0.80		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.30		J
				o-Xylene	0.56	0.28		U
3	11/21/22 11:21	12/6/22 9:14	3.9	1,3-Butadiene	0.29	0.13	3.7	U
				Benzene	0.38	4.1		
				Toluene	0.50	1.6		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.45		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:14	12/19/22 12:57	0.7	1,3-Butadiene	0.31	0.15	0.3	U
				Benzene	0.42	0.82		
				Toluene	0.53	0.60		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:02	1/3/23 12:17	-1.9	1,3-Butadiene	0.27	0.13	1.8	U
				Benzene	0.37	2.3		P
				Toluene	0.47	0.92		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.40		J
				o-Xylene	0.52	0.26		U
6	1/3/23 12:18	1/17/23 12:03	2.5	1,3-Butadiene	0.29	0.14	2.6	U
				Benzene	0.38	3.1		
				Toluene	0.50	1.0		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.34		J
				o-Xylene	0.56	0.28		U
7	1/17/23 12:05	2/1/23 10:03	-1.9	1,3-Butadiene	0.27	0.13	1.1	U
				Benzene	0.37	1.8		
				Toluene	0.47	0.79		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.28		J
				o-Xylene	0.52	0.26		U

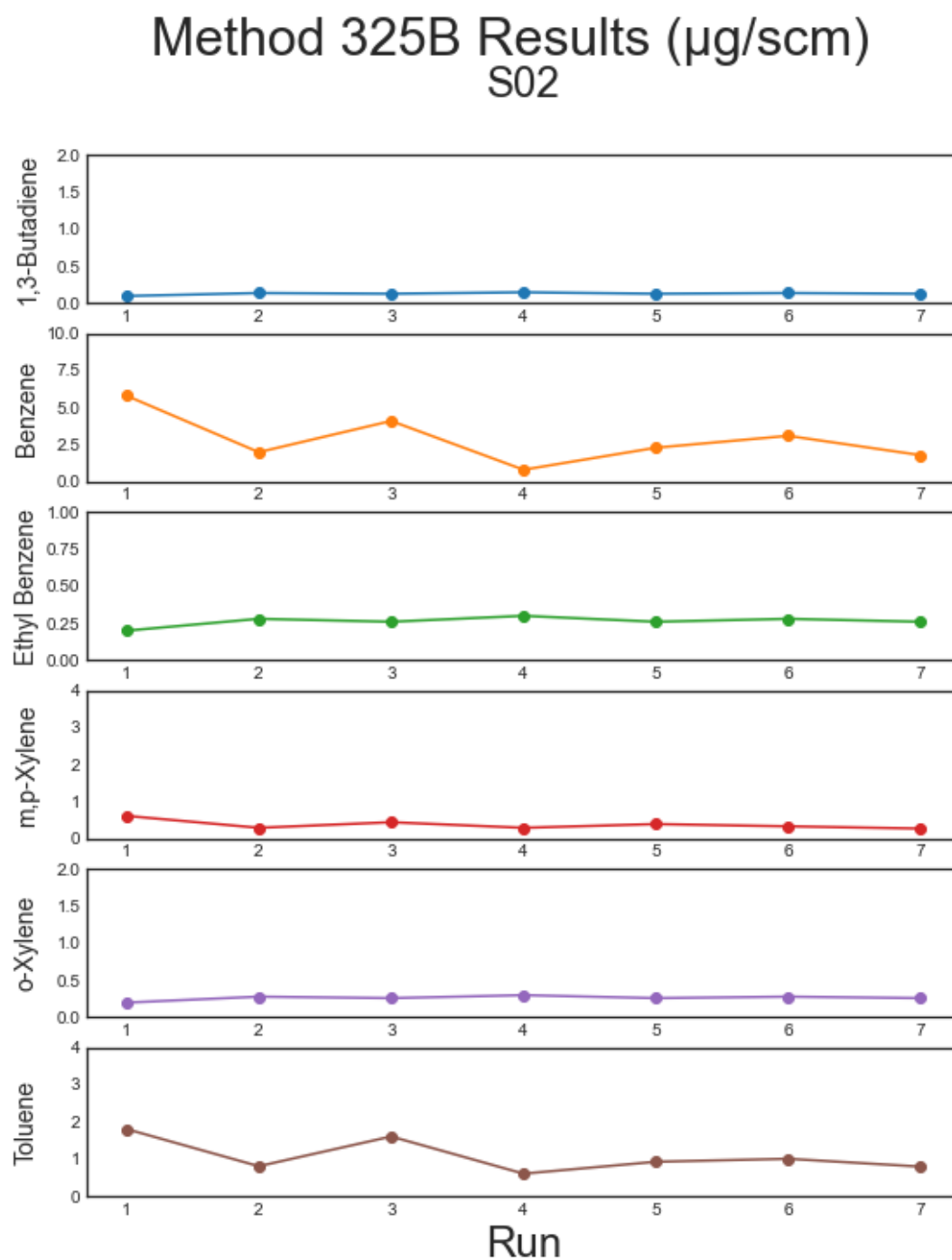
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-2:**  
**Fenceline BTEX Chart – Sampler 02 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-4:**  
**Fenceline BTEX Results – Sampler 03 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:27	11/7/22 9:40	12.9	1,3-Butadiene	0.21	0.10		U
				Benzene	0.28	5.2	4.8	
				Toluene	0.36	1.7		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.59		
				o-Xylene	0.40	0.20		U
2	11/7/22 9:41	11/21/22 11:25	3.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	1.6	1.2	
				Toluene	0.50	0.66		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 11:26	12/6/22 9:09	3.9	1,3-Butadiene	0.29	0.13		U
				Benzene	0.38	4.0	3.6	
				Toluene	0.50	1.5		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.46		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:09	12/19/22 13:05	0.7	1,3-Butadiene	0.31	0.15		U
				Benzene	0.42	0.71	0.2	B
				Toluene	0.53	0.58		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:09	1/3/23 12:22	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	1.4	0.9	P
				Toluene	0.47	0.69		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 12:23	1/17/23 12:09	2.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	2.6	2.1	
				Toluene	0.50	0.82		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 12:10	2/1/23 10:08	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	1.4	0.7	
				Toluene	0.47	0.63		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

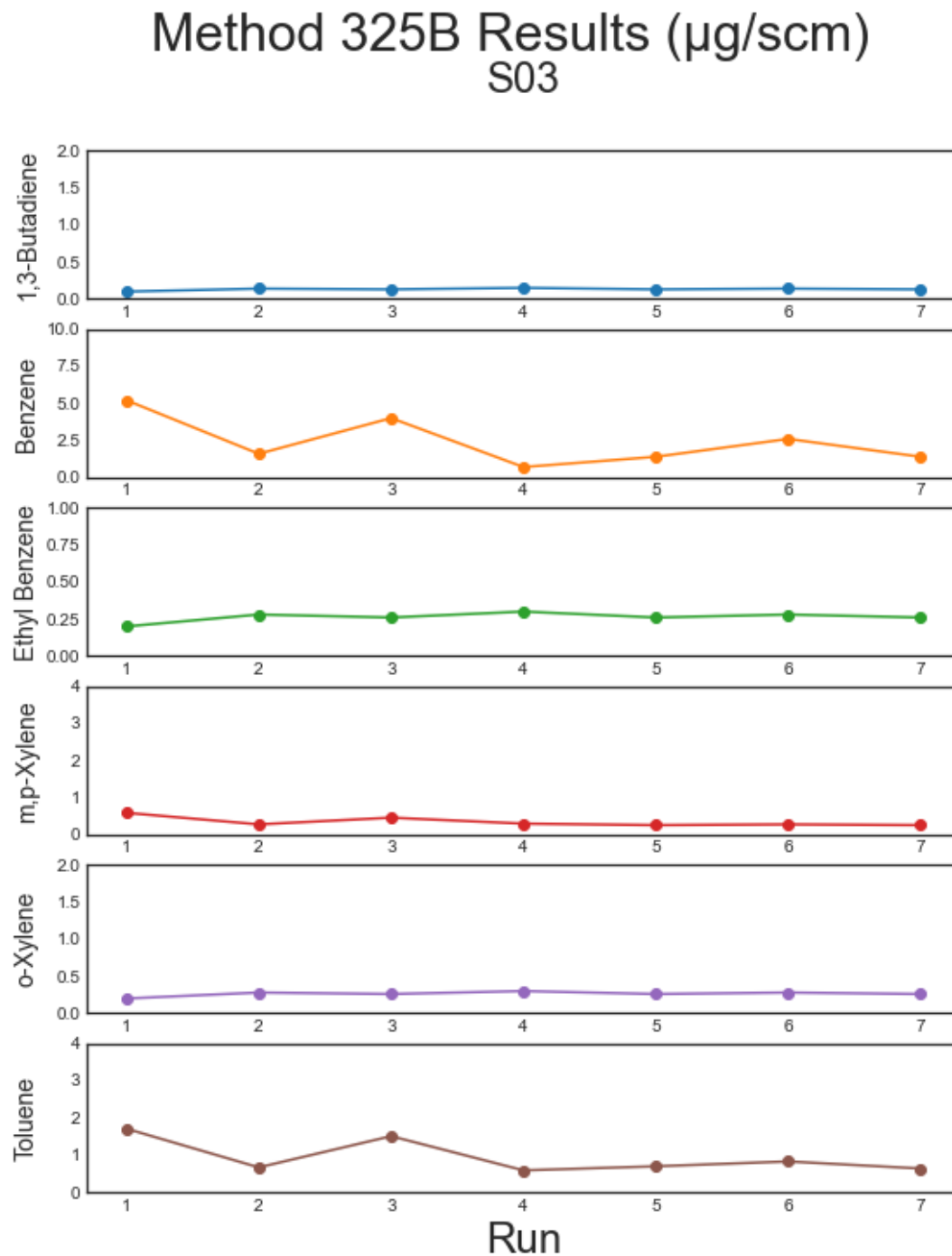
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-3:**  
**Fenceline BTEX Chart – Sampler 03 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-5:**  
**Fenceline BTEX Results – Sampler 04 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:30	11/7/22 9:45	12.9	1,3-Butadiene	0.21	0.10		U
				Benzene	0.28	5.7	5.3	
				Toluene	0.36	1.8		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.67		
				o-Xylene	0.40	0.20		U
2	11/7/22 9:46	11/21/22 11:28	3.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	1.9	1.5	
				Toluene	0.50	0.75		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.31		J
				o-Xylene	0.56	0.28		U
3	11/21/22 11:29	12/6/22 9:05	3.9	1,3-Butadiene	0.29	0.13		U
				Benzene	0.38	3.6	3.2	
				Toluene	0.50	1.4		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.46		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:05	12/19/22 13:10	0.7	1,3-Butadiene	0.31	0.15		U
				Benzene	0.42	1.3	0.8	
				Toluene	0.53	0.72		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:11	1/3/23 12:26	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	1.6	1.1	P
				Toluene	0.47	0.67		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 12:27	1/17/23 12:15	2.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	2.2	1.7	
				Toluene	0.50	0.82		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 12:16	2/1/23 10:13	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	2.0	1.3	
				Toluene	0.47	0.85		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.29		J
				o-Xylene	0.52	0.26		U

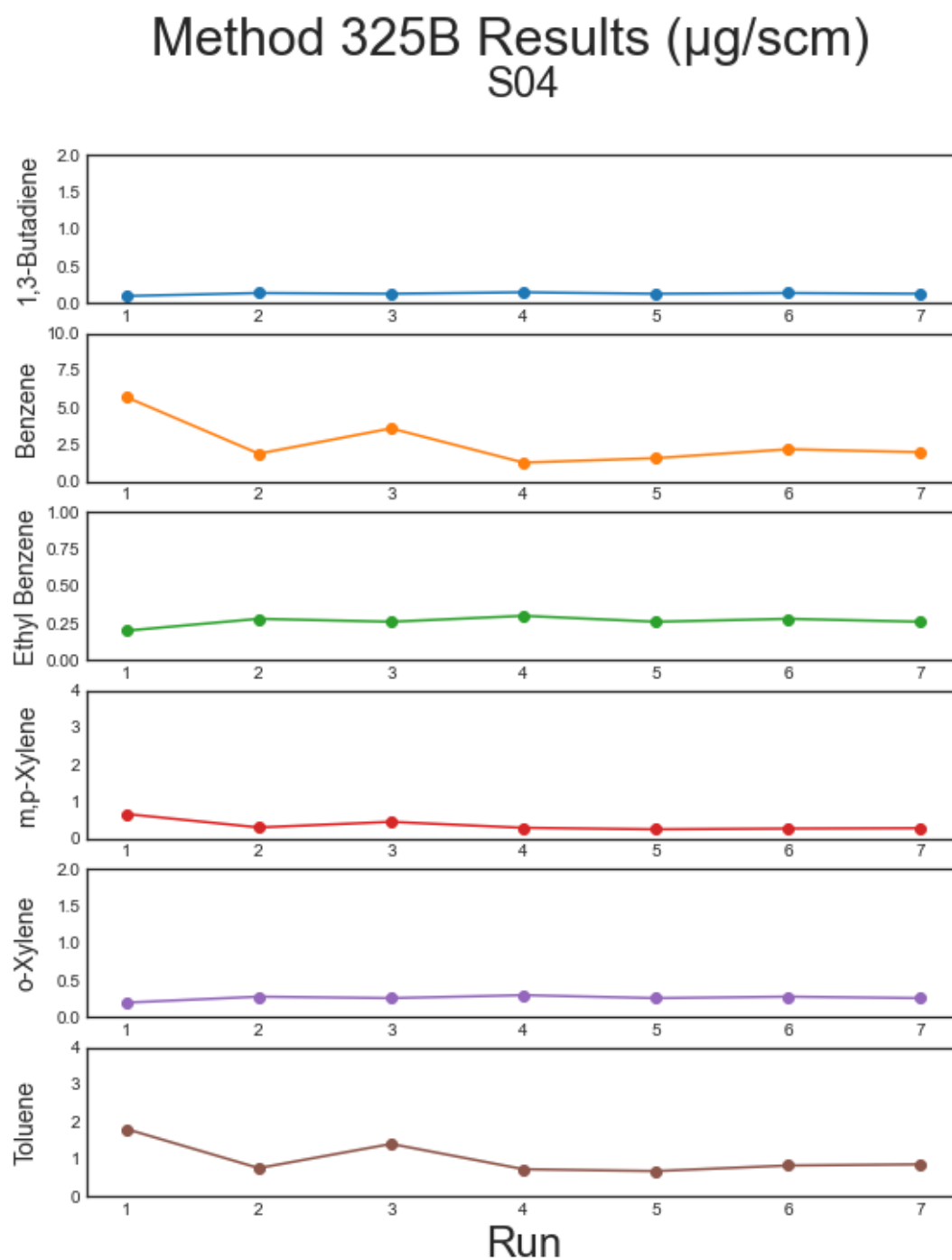
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-4:**  
**Fenceline BTEX Chart – Sampler 04 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-6:**  
**Fenceline BTEX Results – Sampler 05 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m <sup>3</sup> )	Concentration (µg/m <sup>3</sup> )		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:35	11/7/22 9:53	12.9	1,3-Butadiene	0.21	0.10		U
				Benzene	0.28	2.7	2.3	
				Toluene	0.36	0.96		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.33		J
				o-Xylene	0.40	0.20		U
2	11/7/22 9:53	11/21/22 11:41	3.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	1.4	1	
				Toluene	0.50	0.70		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.29		J
				o-Xylene	0.56	0.28		U
3	11/21/22 11:43	12/6/22 8:59	3.9	1,3-Butadiene	0.29	0.13		U
				Benzene	0.38	1.9	1.5	
				Toluene	0.50	0.96		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.29		J
				o-Xylene	0.56	0.26		U
4	12/6/22 8:59	12/19/22 13:17	0.7	1,3-Butadiene	0.31	0.15		U
				Benzene	0.42	2.8	2.3	
				Toluene	0.53	1.1		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.32		J
				o-Xylene	0.60	0.30		U
5	12/19/22 13:17	1/3/23 12:32	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	1.4	0.9	P
				Toluene	0.47	0.83		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.31		J
				o-Xylene	0.52	0.26		U
6	1/3/23 12:33	1/17/23 12:20	2.5	1,3-Butadiene	0.29	0.14		U
				Benzene	0.38	3.4	2.9	
				Toluene	0.50	1.2		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.42		J
				o-Xylene	0.56	0.28		U
7	1/17/23 12:21	2/1/23 10:19	-1.9	1,3-Butadiene	0.27	0.13		U
				Benzene	0.37	7.0	6.3	
				Toluene	0.47	2.9		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.86		
				o-Xylene	0.52	0.26		U

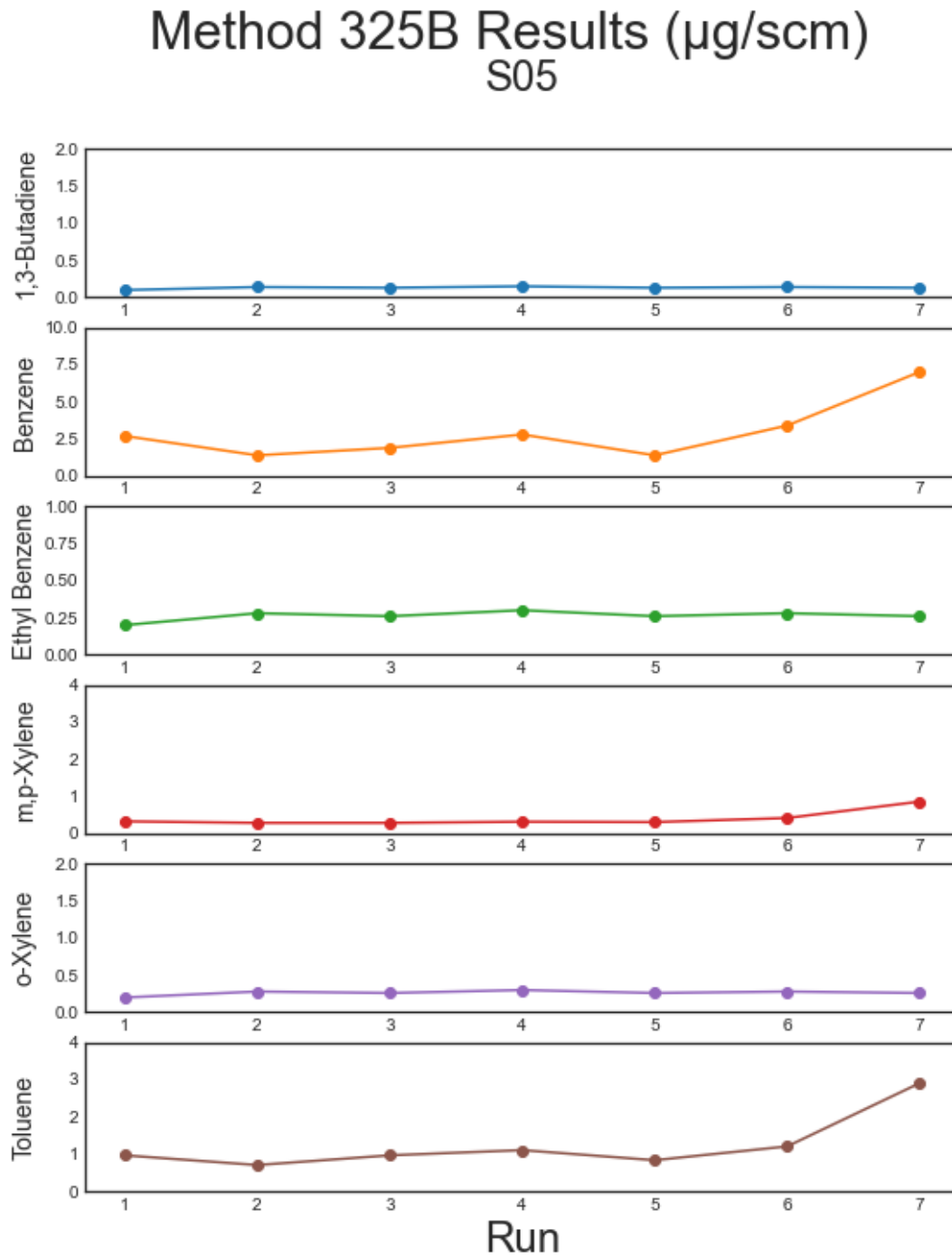
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-5:**  
**Fenceline BTEX Chart – Sampler 05 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-7:**  
**Fenceline BTEX Results – Sampler 06 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 11:18	11/7/22 10:03	12.9	1,3-Butadiene	0.21	0.10	1	U
				Benzene	0.28	1.4		
				Toluene	0.36	0.71		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.24		J
				o-Xylene	0.40	0.20		U
2	11/7/22 10:03	11/21/22 11:52	3.5	1,3-Butadiene	0.29	0.14	0.6	U
				Benzene	0.38	1.0		
				Toluene	0.50	0.52		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 11:52	12/6/22 8:45	3.9	1,3-Butadiene	0.29	0.13	0.9	U
				Benzene	0.38	1.3		
				Toluene	0.50	0.78		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.27		J
				o-Xylene	0.56	0.26		U
4	12/6/22 8:45	12/19/22 13:27	0.7	1,3-Butadiene	0.31	0.15	1.3	U
				Benzene	0.42	1.8		
				Toluene	0.53	0.79		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.31		J
				o-Xylene	0.60	0.30		U
5	12/19/22 13:27	1/3/23 12:44	-1.9	1,3-Butadiene	0.27	0.13	1	U
				Benzene	0.37	1.5		P
				Toluene	0.47	0.77		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 12:45	1/17/23 12:31	2.5	1,3-Butadiene	0.29	0.14	1.1	U
				Benzene	0.38	1.6		
				Toluene	0.50	1.1		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 12:33	2/1/23 10:31	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.3		
				Toluene	0.47	0.76		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.31		J
				o-Xylene	0.52	0.26		U

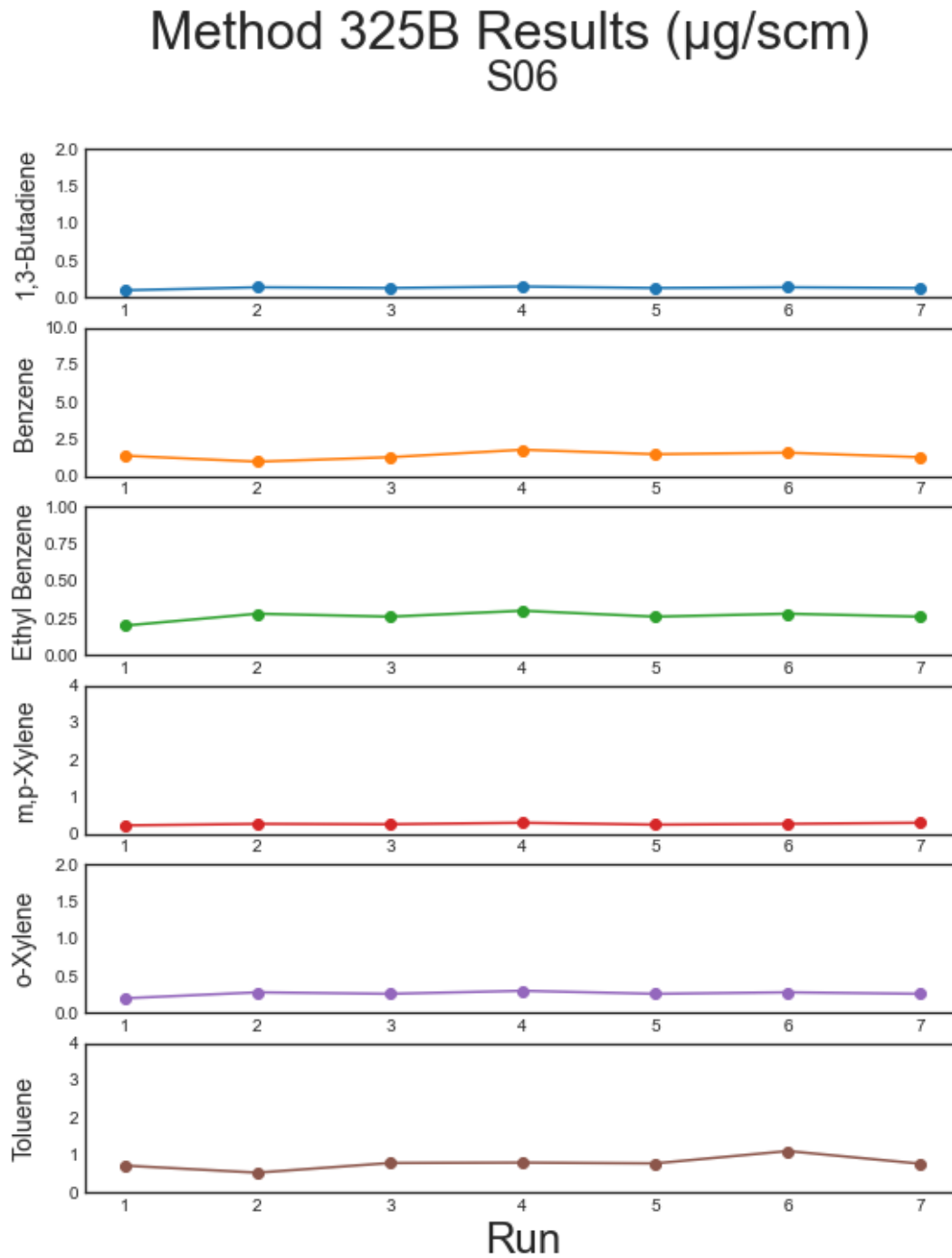
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-6:**  
**Fenceline BTEX Results – Sampler 06 – EPA Method 325A/B (Runs 1 – 7)**



**Table 2-8:**  
**Fenceline BTEX Results – Sampler 07 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 11:30	11/7/22 10:12	12.9	1,3-Butadiene	0.21	0.10	1.5	U
				Benzene	0.28	1.9		
				Toluene	0.36	0.83		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.30		J
				o-Xylene	0.40	0.20		U
2	11/7/22 10:12	11/21/22 11:59	3.5	1,3-Butadiene	0.29	0.14	2.3	U
				Benzene	0.38	2.7		
				Toluene	0.50	0.98		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.35		J
				o-Xylene	0.56	0.28		U
3	11/21/22 12:00	12/6/22 8:34	3.9	1,3-Butadiene	0.29	0.13	0.5	U
				Benzene	0.38	0.93		
				Toluene	0.50	0.72		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 8:34	12/19/22 13:36	0.7	1,3-Butadiene	0.31	0.15	4.4	U
				Benzene	0.42	4.9		
				Toluene	0.53	1.6		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.45		J
				o-Xylene	0.60	0.30		U
5	12/19/22 13:36	1/3/23 13:01	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.1		P
				Toluene	0.47	0.67		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:02	1/17/23 12:43	2.5	1,3-Butadiene	0.29	0.14	0.3	U
				Benzene	0.38	0.79		
				Toluene	0.50	0.45		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 12:44	2/1/23 10:42	-1.9	1,3-Butadiene	0.27	0.13	0.5	U
				Benzene	0.37	1.2		
				Toluene	0.47	0.64		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

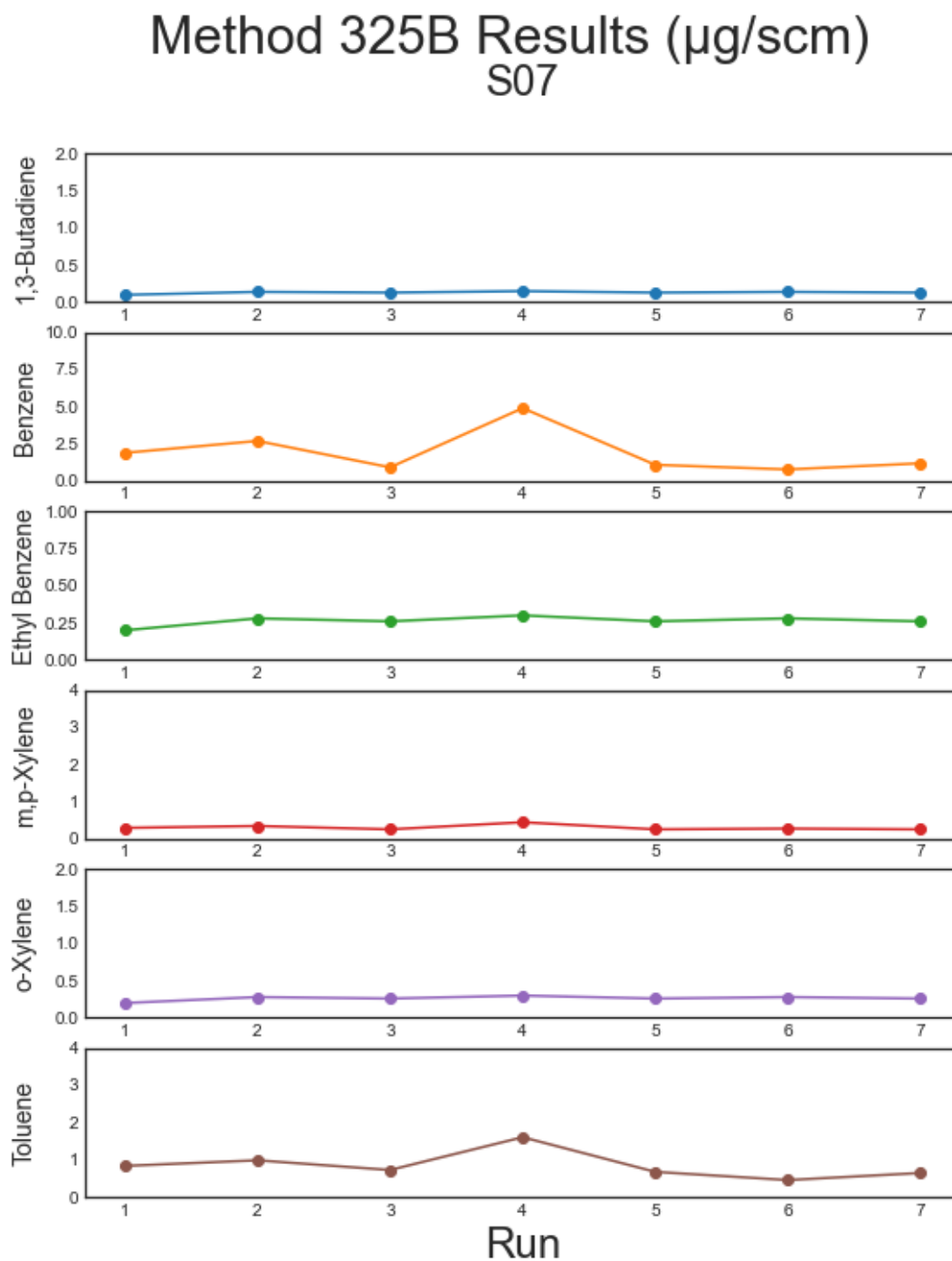
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-7:**  
**Fenceline BTEX Results – Sampler 07 – EPA Method 325A/B (Runs 1 – 7)**



**Table 2-9:**  
**Fenceline BTEX Results – Sampler 08 – EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 13:39	11/7/22 12:22	12.9	1,3-Butadiene	0.21	0.10	0.3	U
				Benzene	0.28	0.64		
				Toluene	0.36	0.43		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 12:23	11/21/22 13:54	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.59		
				Toluene	0.50	0.41		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:55	12/6/22 11:06	3.9	1,3-Butadiene	0.29	0.13	0.3	U
				Benzene	0.38	0.76		
				Toluene	0.50	0.64		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 11:08	12/19/22 13:31	0.7	1,3-Butadiene	0.31	0.15	0.2	U
				Benzene	0.42	0.72		
				Toluene	0.53	0.59		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:32	1/4/23 13:28	-1.9	1,3-Butadiene	0.27	0.13	0	U
				Benzene	0.37	0.57		P
				Toluene	0.47	0.51		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/4/23 13:30	1/17/23 14:43	2.5	1,3-Butadiene	0.31	0.15	0.2	U
				Benzene	0.42	0.63		
				Toluene	0.53	0.46		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
7	1/17/23 14:44	2/1/23 12:37	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.84		
				Toluene	0.47	0.45		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

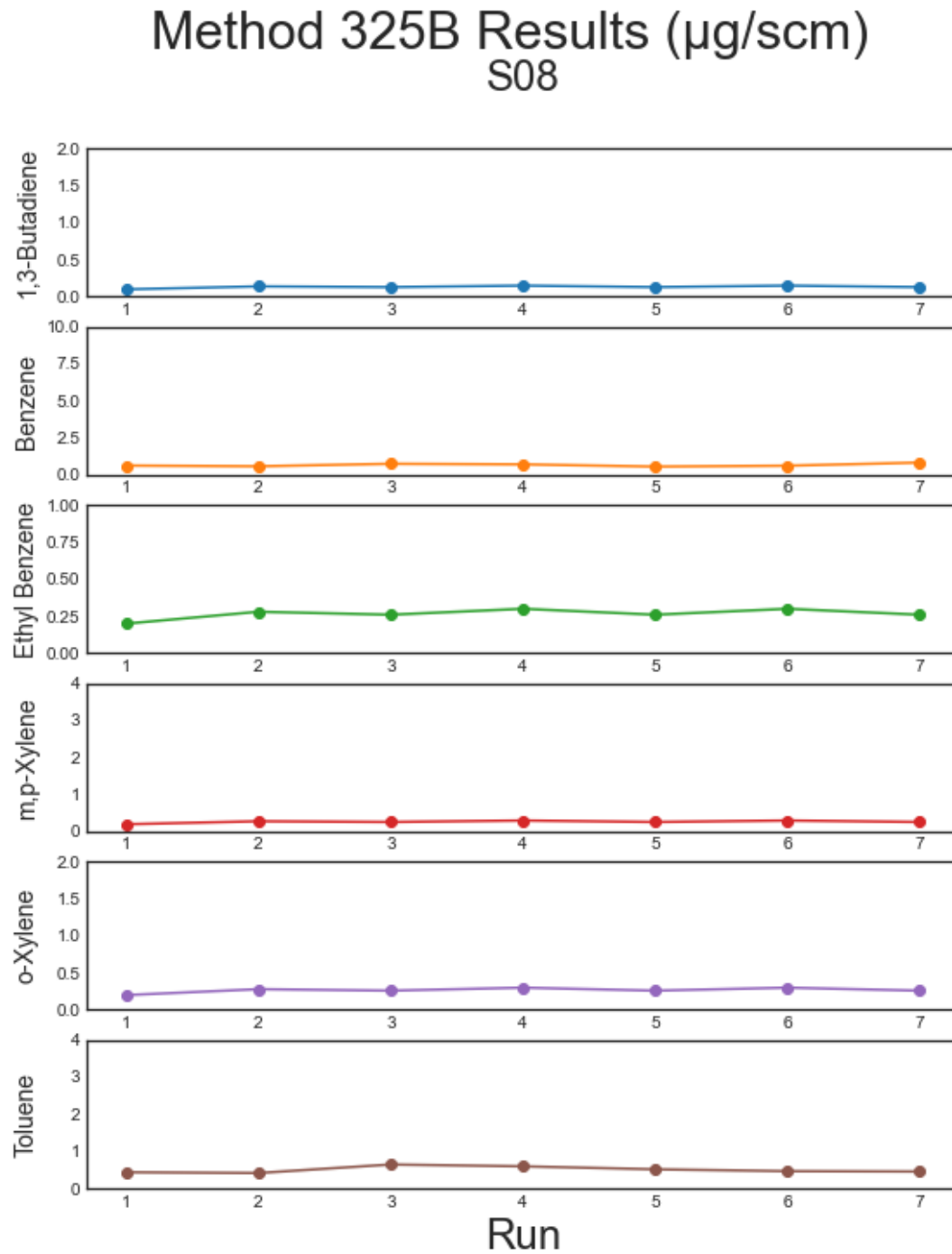
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-8:**  
**Fenceline BTEX Chart – Sampler 08 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-10:**  
**Fenceline BTEX Results – Sampler 09 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/21/22 11:29	11/7/22 12:27	12.9	1,3-Butadiene	0.23	0.10	0	U
				Benzene	0.31	0.36		
				Toluene	0.40	0.32		J
				Ethyl Benzene	0.45	0.20		U
				m,p-Xylene	0.45	0.20		U
				o-Xylene	0.45	0.20		U
2	11/7/22 12:28	11/21/22 13:59	3.5	1,3-Butadiene	0.29	0.14	0	U
				Benzene	0.38	0.37		J
				Toluene	0.50	0.27		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 14:00	12/6/22 11:12	3.9	1,3-Butadiene	0.29	0.13	0	U
				Benzene	0.38	0.45		B
				Toluene	0.50	0.46		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 11:12	12/19/22 13:38	0.7	1,3-Butadiene	0.31	0.15	0	U
				Benzene	0.42	0.51		B
				Toluene	0.53	0.45		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:40	1/4/23 13:21	-1.9	1,3-Butadiene	0.27	0.13	0	U
				Benzene	0.37	0.52		P
				Toluene	0.47	0.30		J,PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/4/23 13:22	1/17/23 14:38	2.5	1,3-Butadiene	0.31	0.15	0.2	U
				Benzene	0.42	0.69		
				Toluene	0.53	0.50		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
7	1/17/23 14:39	2/1/23 12:32	-1.9	1,3-Butadiene	0.27	0.13	0	U
				Benzene	0.37	0.66		B
				Toluene	0.47	0.33		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

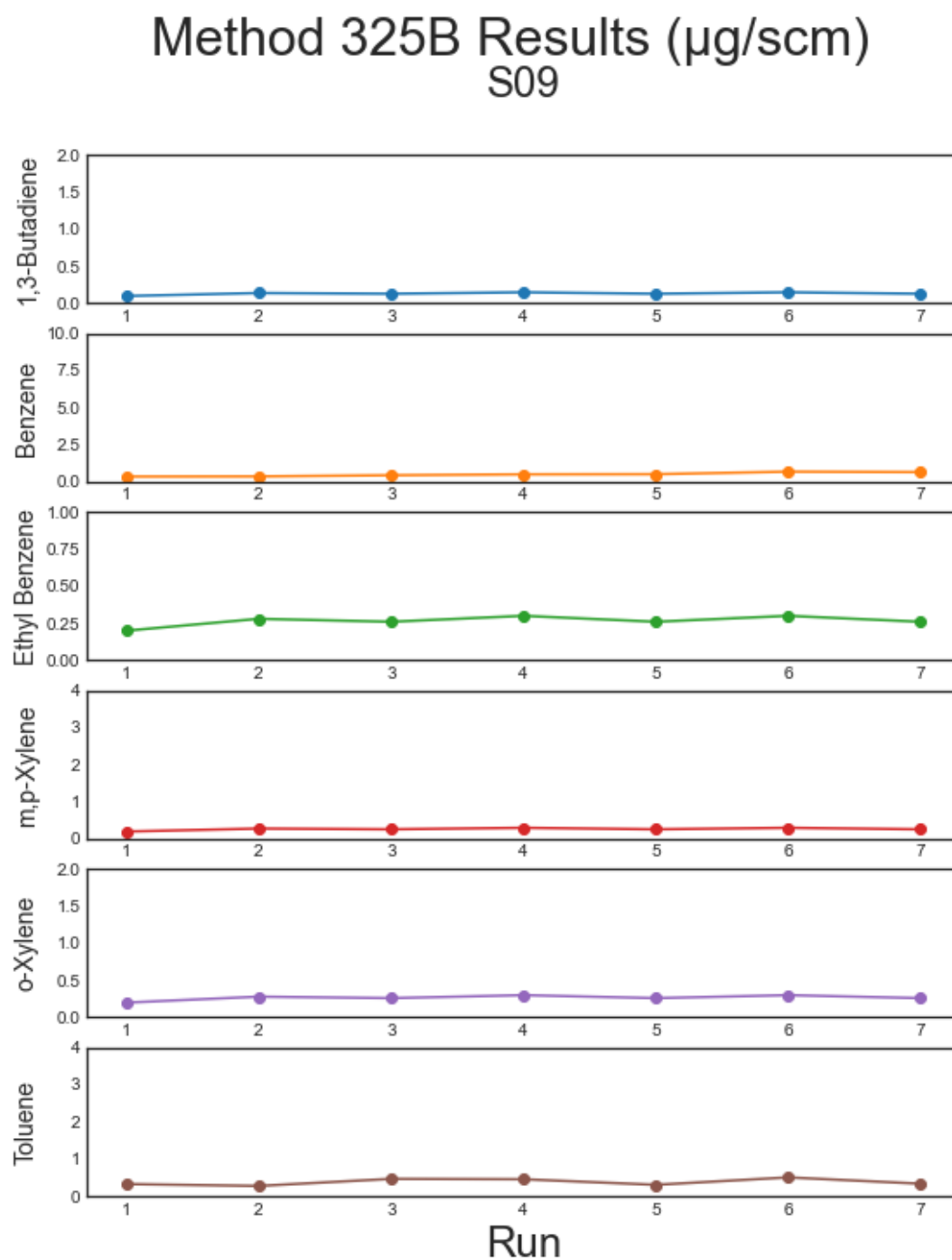
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-9:**  
**Fenceline BTEX Chart – Sampler 09 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-11:**  
**Fenceline BTEX Results – Sampler 10 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:24	11/7/22 10:41	12.9	1,3-Butadiene	0.21	0.10	0.4	U
				Benzene	0.28	0.75		
				Toluene	0.36	0.54		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.21		J
				o-Xylene	0.40	0.20		U
2	11/7/22 10:43	11/21/22 12:22	3.5	1,3-Butadiene	0.29	0.14	1	U
				Benzene	0.38	1.4		
				Toluene	0.50	0.64		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:24	12/6/22 10:56	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.86		
				Toluene	0.50	0.62		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:56	12/19/22 14:03	0.7	1,3-Butadiene	0.31	0.15	0.3	U
				Benzene	0.42	0.75		
				Toluene	0.53	0.54		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:04	1/3/23 13:34	-1.9	1,3-Butadiene	0.27	0.13	0.1	U
				Benzene	0.37	0.64		P
				Toluene	0.47	0.57		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:35	1/17/23 13:08	2.5	1,3-Butadiene	0.29	0.14	0.5	U
				Benzene	0.38	0.95		
				Toluene	0.50	0.48		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:10	2/1/23 11:06	-1.9	1,3-Butadiene	0.27	0.13	0.8	U
				Benzene	0.37	1.5		
				Toluene	0.47	0.65		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

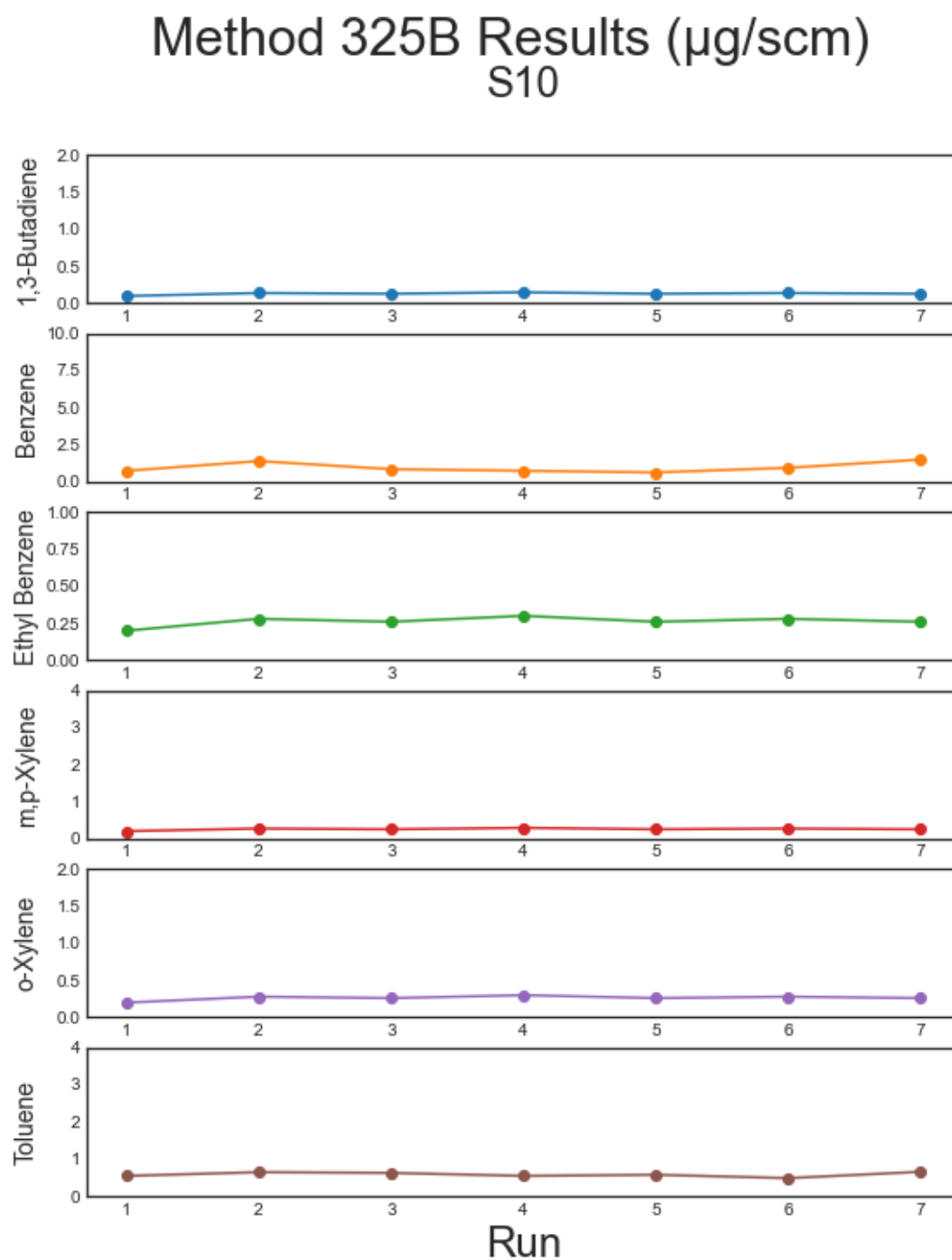
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-10:**  
**Fenceline BTEX Chart – Sampler 10 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-12:**  
**Fenceline BTEX Results – Sampler 11 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:20	11/7/22 10:36	12.9	1,3-Butadiene	0.21	0.10	0.2	U
				Benzene	0.28	0.54		
				Toluene	0.36	0.49		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 10:37	11/21/22 12:17	3.5	1,3-Butadiene	0.29	0.14	1	U
				Benzene	0.38	1.4		
				Toluene	0.50	0.60		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:18	12/6/22 10:53	3.9	1,3-Butadiene	0.29	0.13	0.2	U
				Benzene	0.38	0.68		B
				Toluene	0.50	0.62		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:53	12/19/22 13:58	0.7	1,3-Butadiene	0.31	0.15	0.3	U
				Benzene	0.42	0.77		
				Toluene	0.53	0.56		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:59	1/3/23 13:20	-1.9	1,3-Butadiene	0.27	0.13	0.5	U
				Benzene	0.37	0.99		P
				Toluene	0.47	0.65		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:21	1/17/23 13:04	2.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.67		
				Toluene	0.50	0.40		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:05	2/1/23 11:02	-1.9	1,3-Butadiene	0.27	0.13	0.5	U
				Benzene	0.37	1.2		
				Toluene	0.47	0.62		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

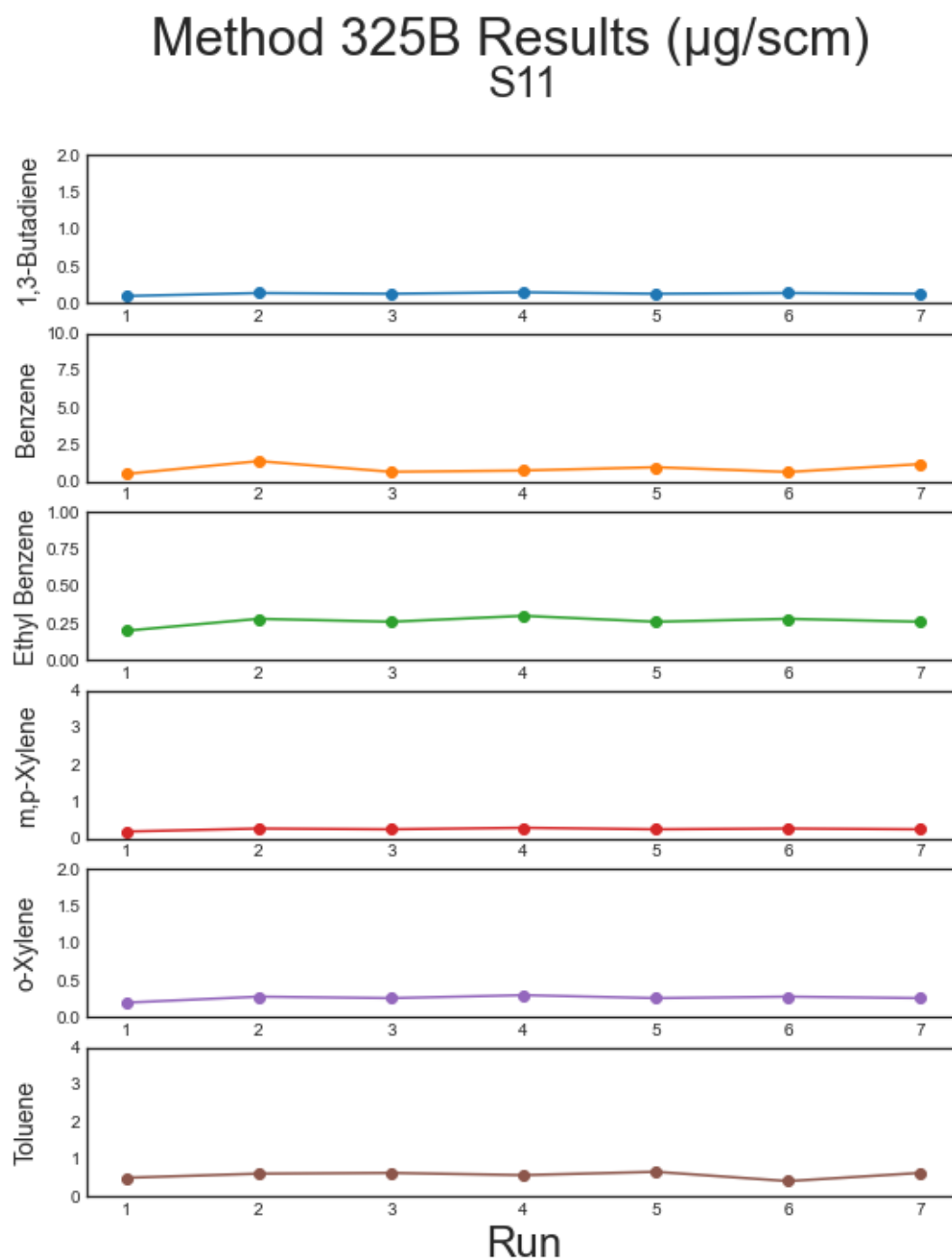
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-11:**  
**Fenceline BTEX Chart – Sampler 11 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-13:**  
**Fenceline BTEX Results – Sampler 12 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:10	11/7/22 10:25	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.49		
				Toluene	0.36	0.43		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.35		J
				o-Xylene	0.40	0.20		U
2	11/7/22 10:27	11/21/22 12:09	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.57		
				Toluene	0.50	0.38		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:11	12/6/22 10:44	3.9	1,3-Butadiene	0.29	0.13	0.5	U
				Benzene	0.38	0.92		
				Toluene	0.50	0.61		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:44	12/19/22 13:47	0.7	1,3-Butadiene	0.31	0.15	0.1	U
				Benzene	0.42	0.60		B
				Toluene	0.53	0.44		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 13:50	1/3/23 13:12	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.1		P
				Toluene	0.47	0.55		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:13	1/17/23 12:55	2.5	1,3-Butadiene	0.29	0.14	0.1	U
				Benzene	0.38	0.57		
				Toluene	0.50	0.31		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 12:56	2/1/23 10:53	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.3		
				Toluene	0.47	0.54		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

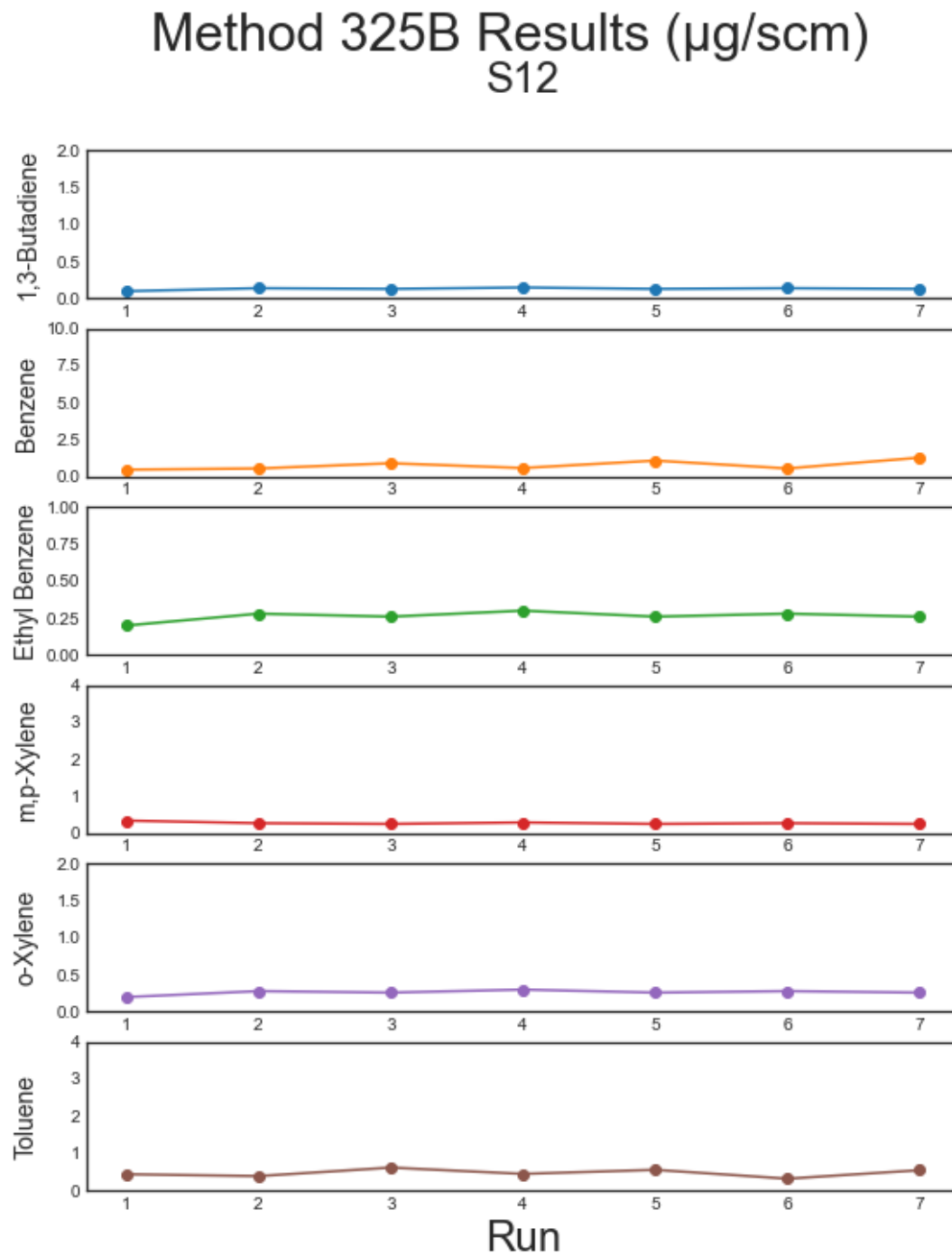
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-12:**  
**Fenceline BTEX Chart – Sampler 12 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-14:**  
**Fenceline BTEX Results – Sampler 13 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:31	11/7/22 10:53	12.9	1,3-Butadiene	0.21	0.10	0.2	U
				Benzene	0.28	0.53		
				Toluene	0.36	0.51		
				Ethyl Benzene	0.40	0.70		
				m,p-Xylene	0.40	3.0		
				o-Xylene	0.40	0.96		
2	11/7/22 10:55	11/21/22 12:33	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.57		
				Toluene	0.50	0.39		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:34	12/6/22 10:37	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.84		
				Toluene	0.50	0.61		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.54		
				o-Xylene	0.56	0.26		U
4	12/6/22 10:37	12/19/22 14:11	0.7	1,3-Butadiene	0.31	0.15	0.1	U
				Benzene	0.42	0.58		B
				Toluene	0.53	0.57		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:15	1/3/23 13:44	-1.9	1,3-Butadiene	0.27	0.13	0.7	U
				Benzene	0.37	1.2		P
				Toluene	0.47	0.54		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:46	1/17/23 13:19	2.5	1,3-Butadiene	0.29	0.14	0.1	U
				Benzene	0.38	0.57		
				Toluene	0.50	0.39		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:20	2/1/23 11:15	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.88		
				Toluene	0.47	0.45		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

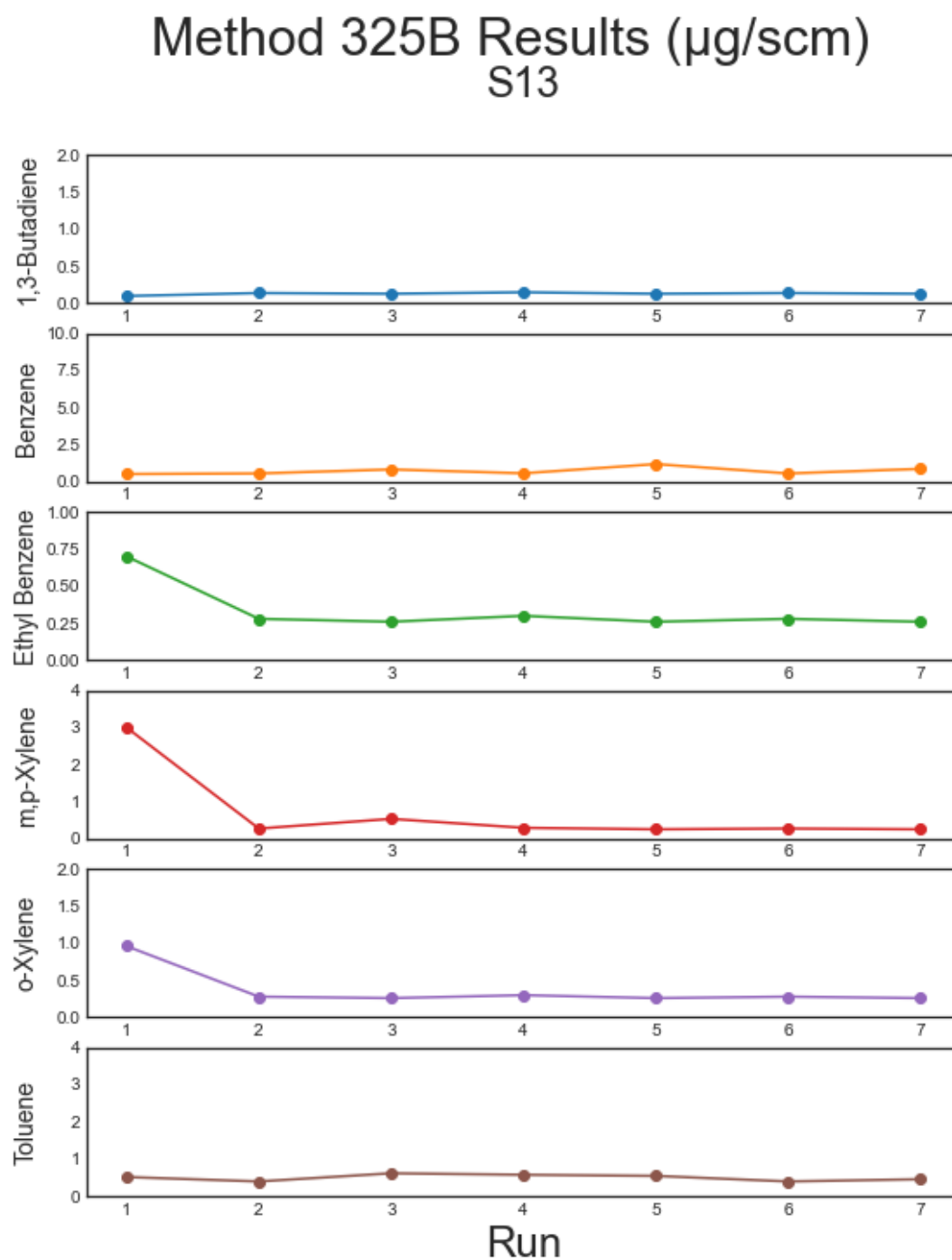
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-13:**  
**Fenceline BTEX Chart – Sampler 13 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-15:**  
**Fenceline BTEX Results – Sampler 14 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:37	11/7/22 11:10	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.42		
				Toluene	0.36	0.41		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:11	11/21/22 12:44	3.5	1,3-Butadiene	0.29	0.14	0.1	U
				Benzene	0.38	0.50		
				Toluene	0.50	0.36		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:46	12/6/22 10:32	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.82		
				Toluene	0.50	0.59		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:32	12/19/22 14:22	0.7	1,3-Butadiene	0.31	0.15	0.1	U
				Benzene	0.42	0.58		B
				Toluene	0.53	0.38		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:23	1/3/23 13:52	-1.9	1,3-Butadiene	0.27	0.13	0.7	U
				Benzene	0.37	1.2		P
				Toluene	0.47	0.60		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:53	1/17/23 13:26	2.5	1,3-Butadiene	0.29	0.14	0	U
				Benzene	0.38	0.50		
				Toluene	0.50	0.34		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:27	2/1/23 11:25	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.89		
				Toluene	0.47	0.50		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

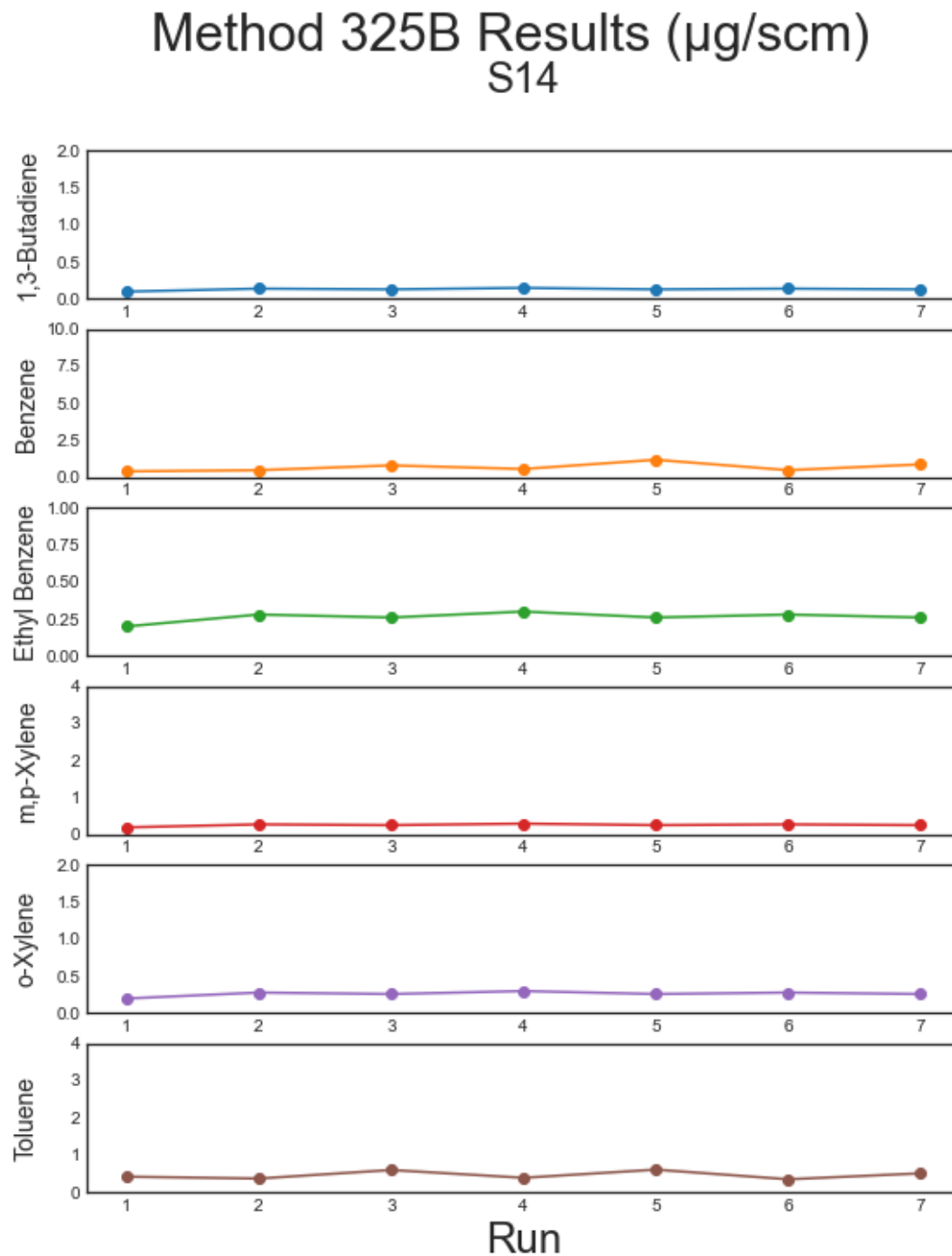
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-14:**  
**Fenceline BTEX Chart – Sampler 14 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-16:**  
**Fenceline BTEX Results – Sampler 15 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:43	11/7/22 11:15	12.9	1,3-Butadiene	0.21	0.10	0	U
				Benzene	0.28	0.39		
				Toluene	0.36	0.43		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:15	11/21/22 12:48	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.52		
				Toluene	0.50	0.45		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:50	12/6/22 10:26	3.9	1,3-Butadiene	0.29	0.13	0.5	U
				Benzene	0.38	0.98		
				Toluene	0.50	0.68		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.27		J
				o-Xylene	0.56	0.26		U
4	12/6/22 10:26	12/19/22 14:26	0.7	1,3-Butadiene	0.31	0.15	0	U
				Benzene	0.42	0.49		B
				Toluene	0.53	0.50		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:28	1/3/23 13:57	-1.9	1,3-Butadiene	0.27	0.13	0.4	U
				Benzene	0.37	0.91		P
				Toluene	0.47	0.45		J,PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 13:58	1/17/23 13:31	2.5	1,3-Butadiene	0.29	0.14	0	U
				Benzene	0.38	0.46		
				Toluene	0.50	0.32		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:32	2/1/23 11:30	-1.9	1,3-Butadiene	0.27	0.13	0.1	U
				Benzene	0.37	0.73		B
				Toluene	0.47	0.44		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

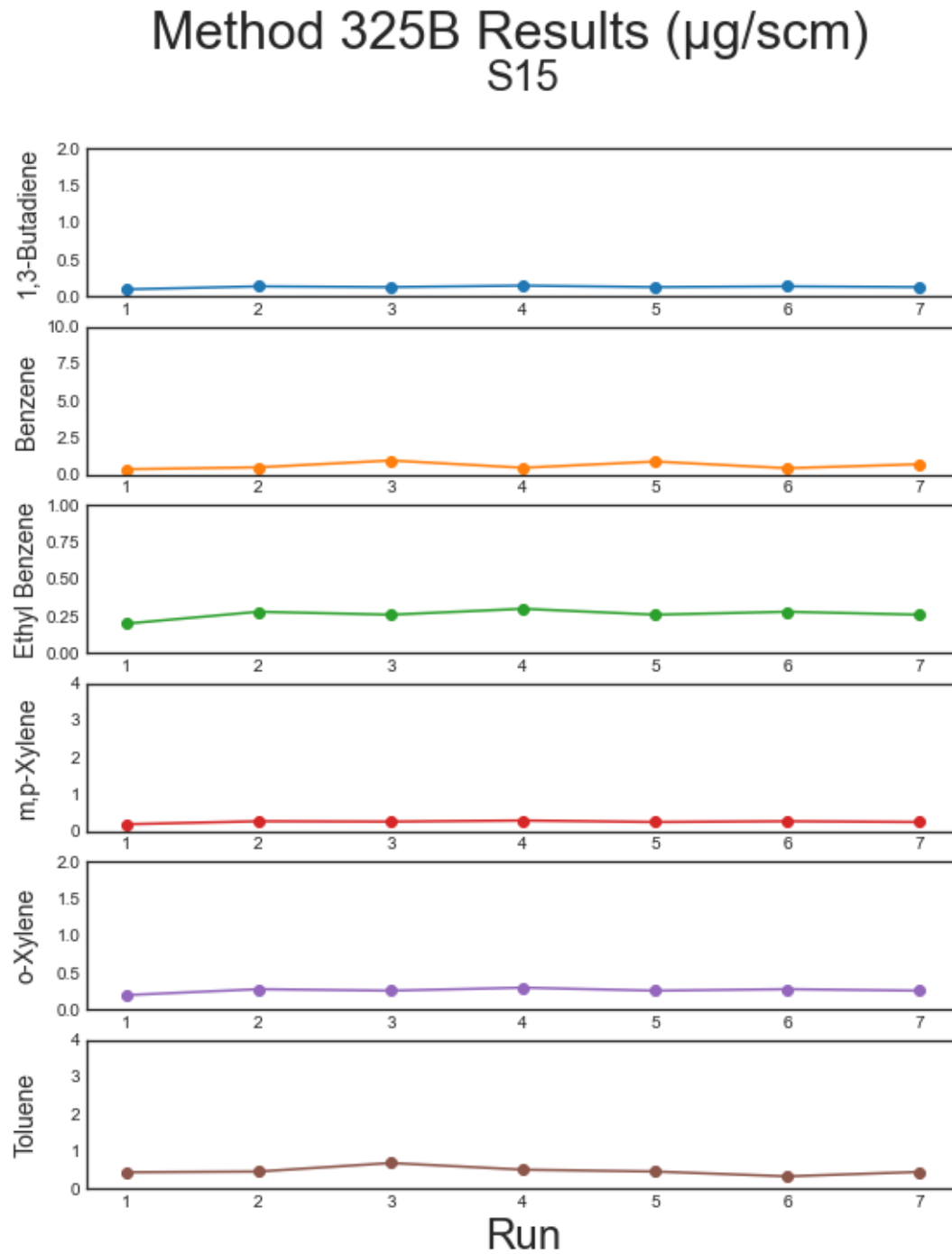
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-15:**  
**Fenceline BTEX Chart – Sampler 15 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-17:**  
**Fenceline BTEX Results – Sampler 16 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:46	11/7/22 11:18	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.47		
				Toluene	0.36	0.59		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.22		J
				o-Xylene	0.40	0.20		U
2	11/7/22 11:19	11/21/22 12:51	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.61		
				Toluene	0.50	0.52		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:53	12/6/22 10:20	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.86		
				Toluene	0.50	0.75		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:20	12/19/22 14:31	0.7	1,3-Butadiene	0.31	0.15	0.1	U
				Benzene	0.42	0.56		B
				Toluene	0.53	0.56		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:32	1/3/23 14:01	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.1		P
				Toluene	0.47	0.56		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:02	1/17/23 13:34	2.5	1,3-Butadiene	0.29	0.14	0.1	U
				Benzene	0.38	0.55		
				Toluene	0.50	0.44		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:35	2/1/23 11:34	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.82		
				Toluene	0.47	0.59		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.30		J
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

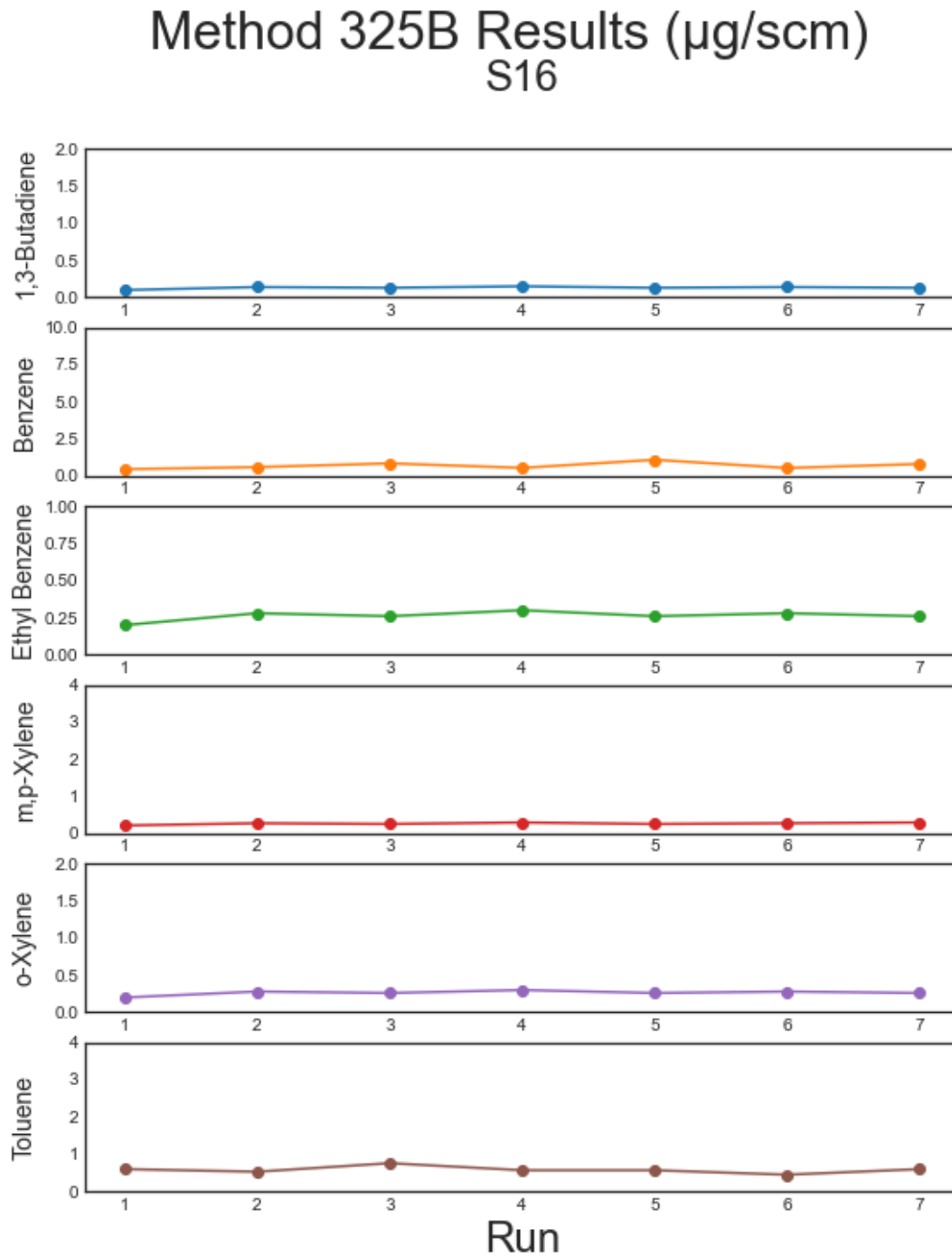
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-16:**  
**Fenceline BTEX Chart – Sampler 16 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-18:**  
**Fenceline BTEX Results – Sampler 17 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 13:28	11/7/22 12:11	12.9	1,3-Butadiene	0.21	0.10	0	U
				Benzene	0.28	0.40		
				Toluene	0.36	0.38		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 12:12	11/21/22 13:43	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.54		
				Toluene	0.50	0.35		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:45	12/6/22 11:24	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.88		
				Toluene	0.50	0.81		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.39		J
				o-Xylene	0.56	0.26		U
4	12/6/22 11:24	12/19/22 15:26	0.7	1,3-Butadiene	0.31	0.15	0.1	U
				Benzene	0.42	0.59		B
				Toluene	0.53	0.49		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 15:27	1/3/23 14:54	-1.9	1,3-Butadiene	0.27	0.13	0.4	U
				Benzene	0.37	0.93		P
				Toluene	0.47	0.44		J,PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:56	1/17/23 14:22	2.5	1,3-Butadiene	0.29	0.14	0.1	U
				Benzene	0.38	0.55		
				Toluene	0.50	0.33		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 14:23	2/1/23 12:21	-1.9	1,3-Butadiene	0.27	0.13	0.3	U
				Benzene	0.37	1.0		
				Toluene	0.47	0.45		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

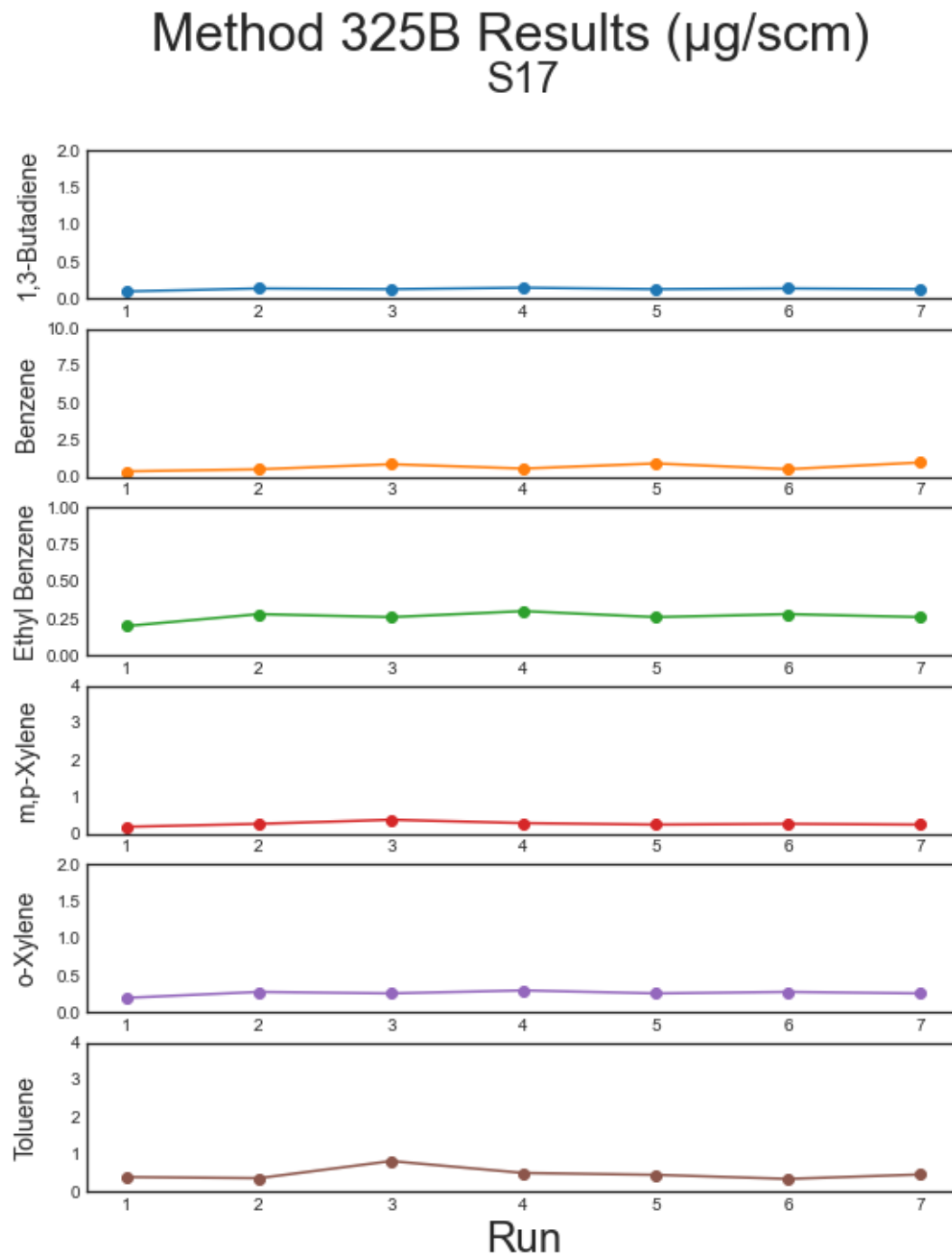
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-17:**  
**Fenceline BTEX Chart – Sampler 17 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-19:**  
**Fenceline BTEX Results – Sampler 18 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:50	11/7/22 11:24	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.42		
				Toluene	0.36	0.35		J
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:25	11/21/22 12:57	3.5	1,3-Butadiene	0.29	0.14	0.3	U
				Benzene	0.38	0.62		
				Toluene	0.50	0.33		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 12:58	12/6/22 10:15	3.9	1,3-Butadiene	0.29	0.13	0.3	U
				Benzene	0.38	0.74		
				Toluene	0.50	0.51		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:15	12/19/22 14:37	0.7	1,3-Butadiene	0.31	0.15	0.2	U
				Benzene	0.42	0.71		B
				Toluene	0.53	0.37		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:38	1/3/23 14:07	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.75		P
				Toluene	0.47	0.50		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:08	1/17/23 13:40	2.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.61		
				Toluene	0.50	0.28		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:41	2/1/23 11:39	-1.9	1,3-Butadiene	0.27	0.13	0.1	U
				Benzene	0.37	0.73		B
				Toluene	0.47	0.35		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

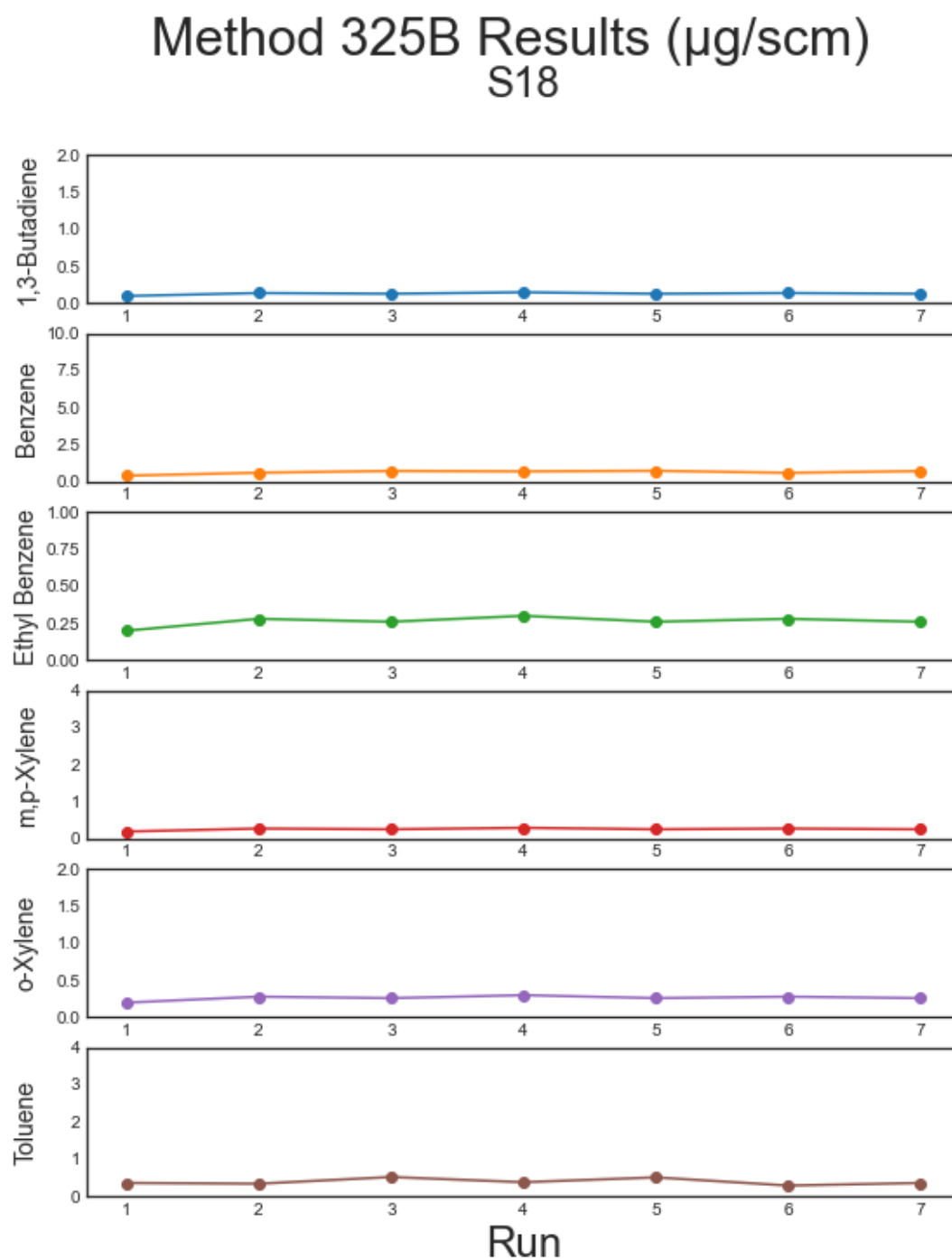
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-18:**  
**Fenceline BTEX Chart – Sampler 18 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-20:**  
**Fenceline BTEX Results – Sampler 19 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:54	11/7/22 11:29	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.45		
				Toluene	0.36	0.43		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:30	11/21/22 13:01	3.5	1,3-Butadiene	0.29	0.14	0.5	U
				Benzene	0.38	0.86		
				Toluene	0.50	0.45		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:02	12/6/22 10:11	3.9	1,3-Butadiene	0.29	0.13	0.3	U
				Benzene	0.38	0.76		
				Toluene	0.50	0.58		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:11	12/19/22 14:43	0.7	1,3-Butadiene	0.31	0.15	0.3	U
				Benzene	0.42	0.83		
				Toluene	0.53	0.57		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:44	1/3/23 14:12	-1.9	1,3-Butadiene	0.27	0.13	0.3	U
				Benzene	0.37	0.81		P
				Toluene	0.47	0.50		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:13	1/17/23 13:44	2.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.67		
				Toluene	0.50	0.38		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:45	2/1/23 11:44	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.81		
				Toluene	0.47	0.46		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

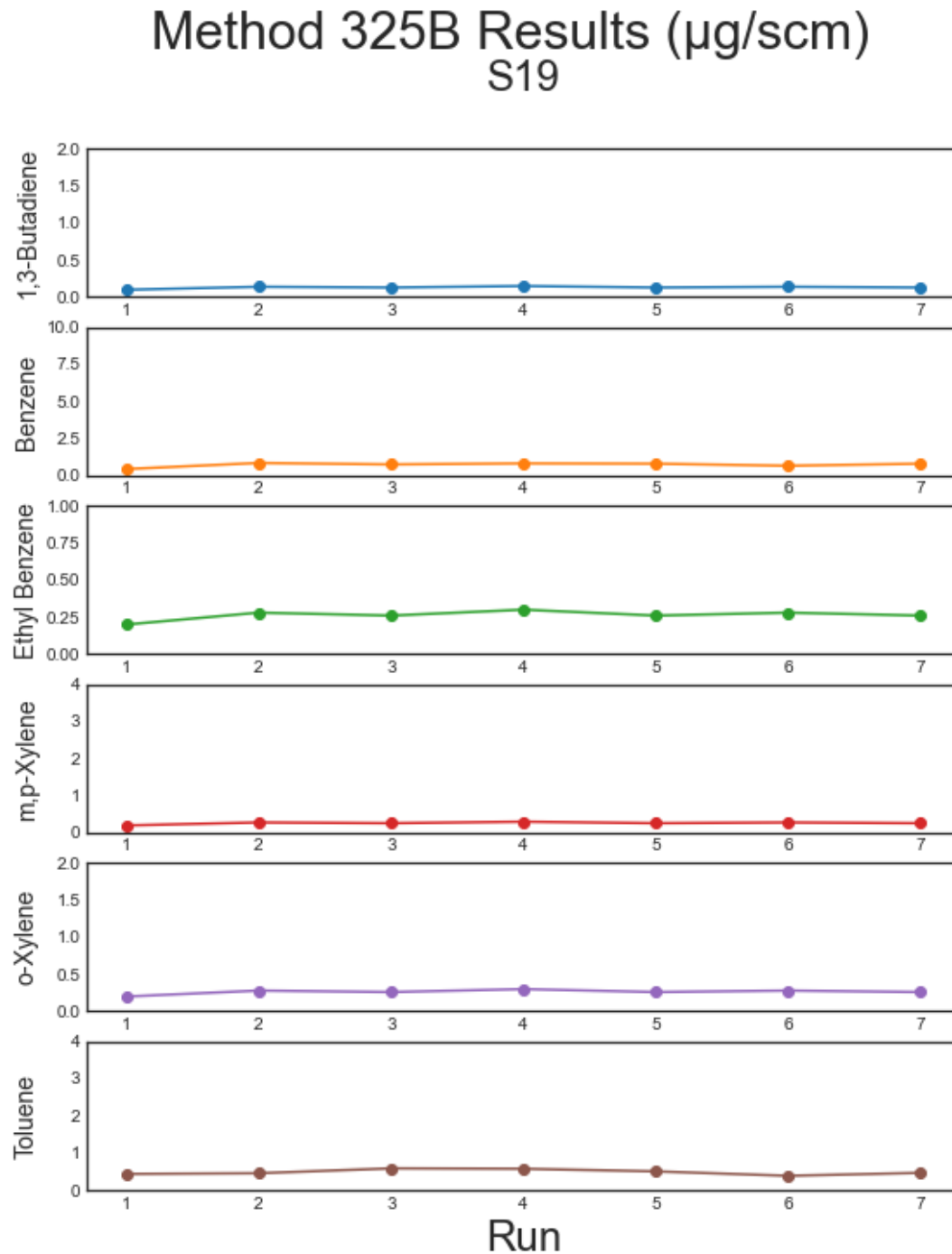
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-19:**  
**Fenceline BTEX Chart – Sampler 19 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-21:**  
**Fenceline BTEX Results – Sampler 20 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 12:57	11/7/22 11:34	12.9	1,3-Butadiene	0.21	0.10	0.1	U
				Benzene	0.28	0.50		
				Toluene	0.36	0.25		J
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:35	11/21/22 13:06	3.5	1,3-Butadiene	0.29	0.14	0.8	U
				Benzene	0.38	1.2		
				Toluene	0.50	0.64		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:07	12/6/22 10:06	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.83		
				Toluene	0.50	0.67		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:06	12/19/22 14:50	0.7	1,3-Butadiene	0.31	0.15	0.8	U
				Benzene	0.42	1.3		
				Toluene	0.53	0.86		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.31		J
				o-Xylene	0.60	0.30		U
5	12/19/22 14:51	1/3/23 14:45	-1.9	1,3-Butadiene	0.27	0.13	0.5	U
				Benzene	0.37	1.0		P
				Toluene	0.47	0.73		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:47	1/17/23 13:49	2.5	1,3-Butadiene	0.29	0.14	0.5	U
				Benzene	0.38	1.0		
				Toluene	0.50	0.53		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:50	2/1/23 11:49	-1.9	1,3-Butadiene	0.27	0.13	0.7	U
				Benzene	0.37	1.4		
				Toluene	0.47	0.73		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.33		J
				o-Xylene	0.52	0.26		U

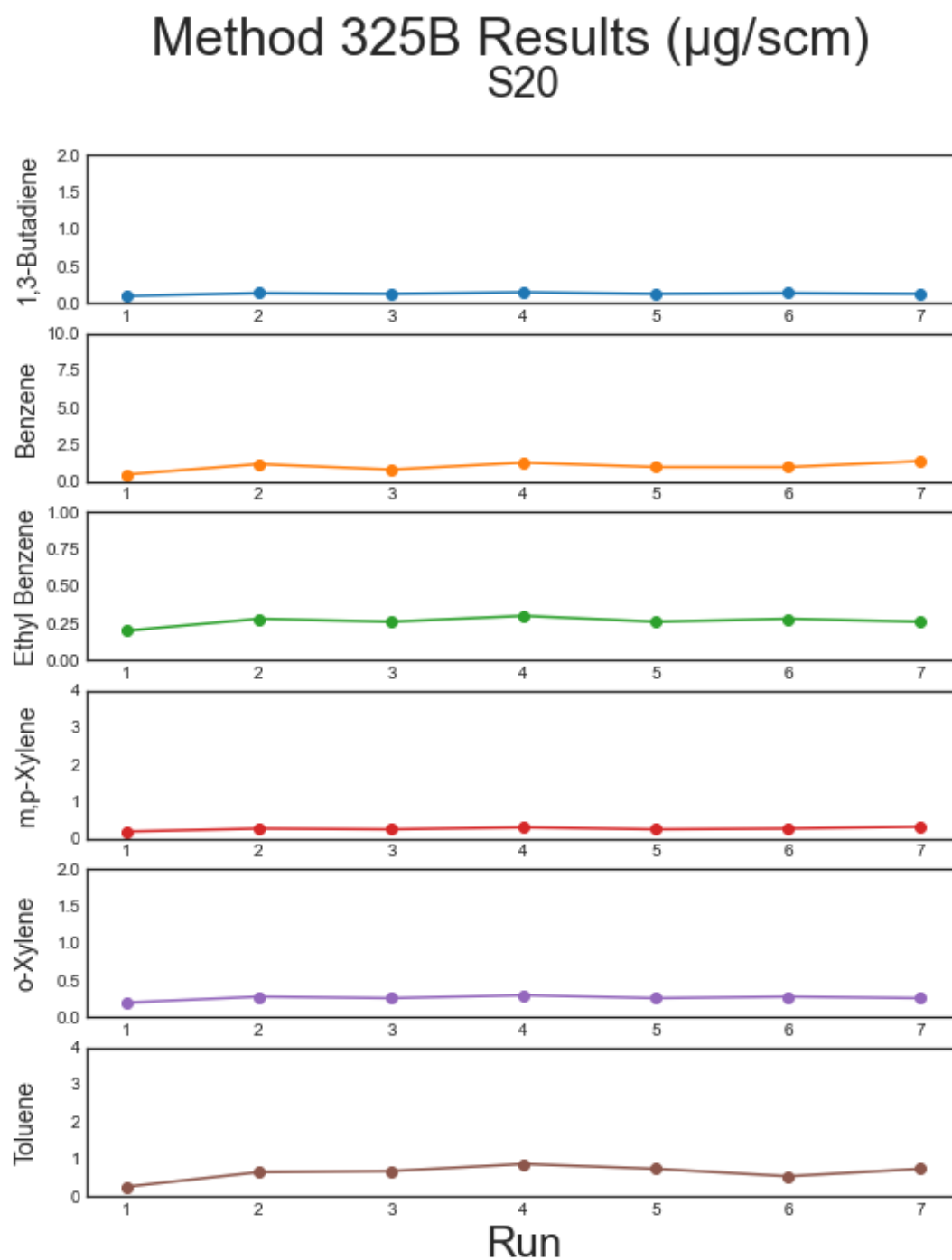
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-20:**  
**Fenceline BTEX Chart – Sampler 20 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-22:**  
**Fenceline BTEX Results – Sampler 21 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 10:01	11/7/22 11:41	12.9	1,3-Butadiene	0.21	1.1	1.4	J
				Benzene	0.28	1.8		
				Toluene	0.36	2.1		
				Ethyl Benzene	0.40	0.28		
				m,p-Xylene	0.40	1.3		
				o-Xylene	0.40	0.48		
2	11/7/22 11:42	11/21/22 13:12	3.5	1,3-Butadiene	0.29	0.14	0.6	U
				Benzene	0.38	0.98		J
				Toluene	0.50	0.47		U
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:12	12/6/22 10:02	3.9	1,3-Butadiene	0.29	0.13	0.4	U
				Benzene	0.38	0.84		U
				Toluene	0.50	0.56		U
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 10:02	12/19/22 14:55	0.7	1,3-Butadiene	0.31	0.15	0.8	U
				Benzene	0.42	1.3		U
				Toluene	0.53	1.1		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.43		U
				o-Xylene	0.60	0.30		U
5	12/19/22 14:56	1/3/23 14:18	-1.9	1,3-Butadiene	0.27	0.13	0.4	U
				Benzene	0.37	0.95		P
				Toluene	0.47	0.55		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:19	1/17/23 13:54	2.5	1,3-Butadiene	0.29	0.14	0.4	U
				Benzene	0.38	0.88		J
				Toluene	0.50	0.40		U
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 13:55	2/1/23 11:54	-1.9	1,3-Butadiene	0.27	0.14	1	J
				Benzene	0.37	1.7		U
				Toluene	0.47	1.0		J
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.38		J
				o-Xylene	0.52	0.26		U

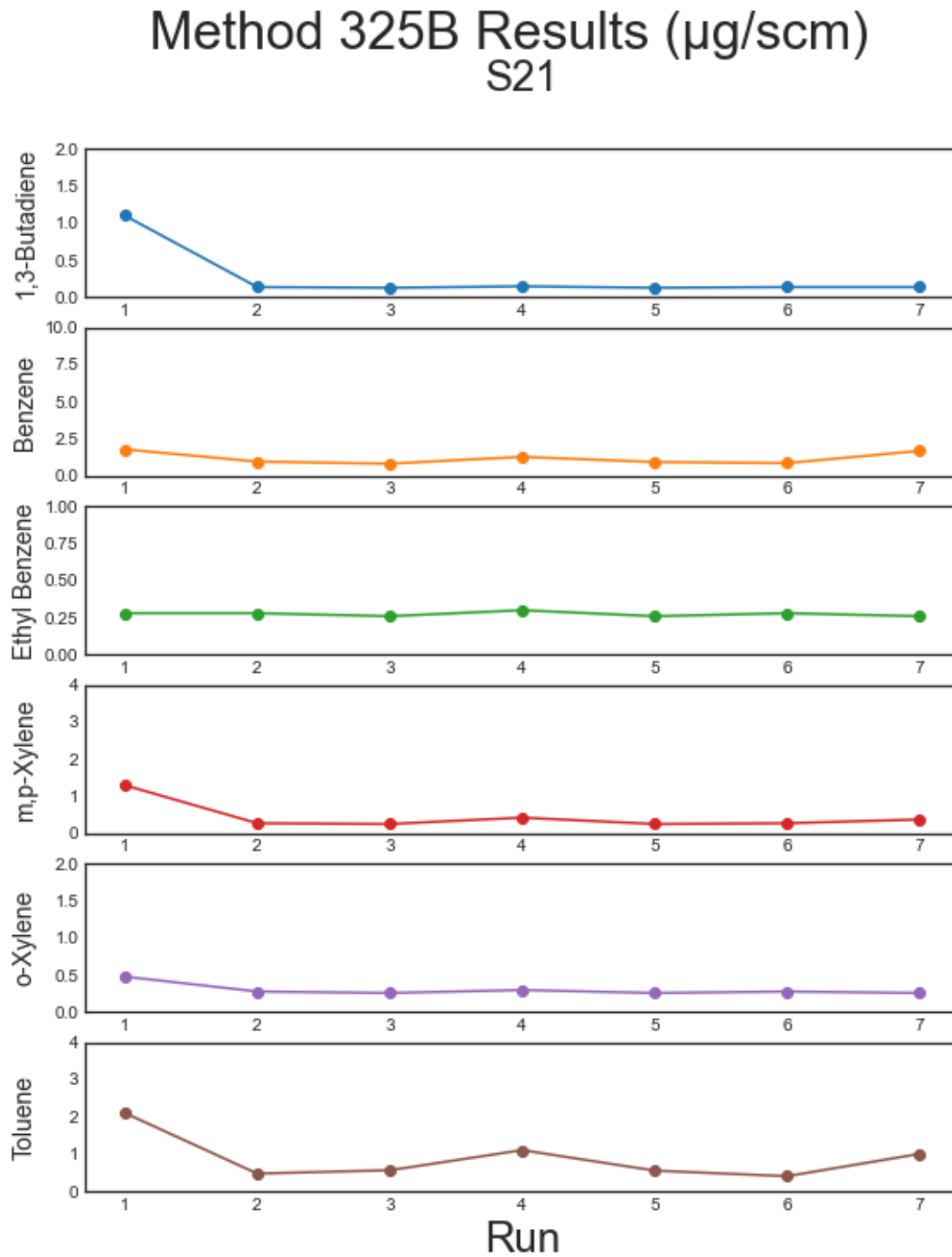
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-21:**  
**Fenceline BTEX Chart – Sampler 21 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-23:**  
**Fenceline BTEX Results – Sampler 22 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 9:38	11/7/22 11:48	12.9	1,3-Butadiene	0.21	0.10	0.5	U
				Benzene	0.28	0.82		
				Toluene	0.36	0.44		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:48	11/21/22 13:17	3.5	1,3-Butadiene	0.29	0.14	0.6	U
				Benzene	0.38	1.0		
				Toluene	0.50	0.49		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:17	12/6/22 9:57	3.9	1,3-Butadiene	0.29	0.13	0.8	U
				Benzene	0.38	1.2		
				Toluene	0.50	0.69		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.30		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:57	12/19/22 15:02	0.7	1,3-Butadiene	0.31	0.15	0.6	U
				Benzene	0.42	1.1		
				Toluene	0.53	0.61		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 15:07	1/3/23 14:24	-1.9	1,3-Butadiene	0.27	0.13	0.4	U
				Benzene	0.37	0.94		P
				Toluene	0.47	0.58		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:25	1/17/23 13:59	2.5	1,3-Butadiene	0.29	0.14	0.7	U
				Benzene	0.38	1.2		
				Toluene	0.50	0.49		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 14:00	2/1/23 11:59	-1.9	1,3-Butadiene	0.27	0.13	0.6	U
				Benzene	0.37	1.3		
				Toluene	0.47	0.54		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

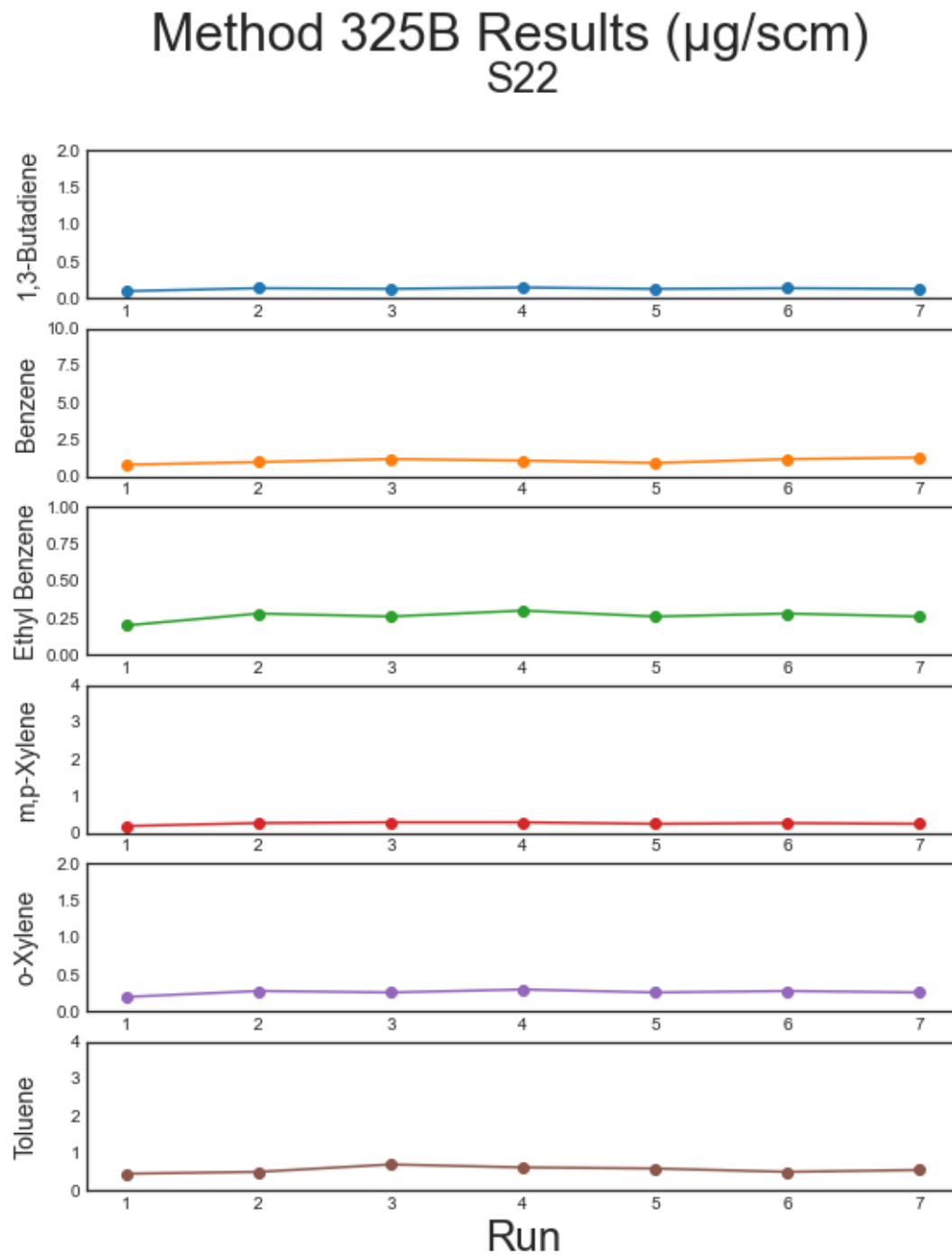
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-22:**  
**Fenceline BTEX Chart – Sampler 22 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-24:**  
**Fenceline BTEX Results – Sampler 23 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Concentration (µg/m3)		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 9:32	11/7/22 11:53	12.9	1,3-Butadiene	0.21	0.10	0.6	U
				Benzene	0.28	0.94		
				Toluene	0.36	0.56		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 11:53	11/21/22 13:21	3.5	1,3-Butadiene	0.29	0.14	0.7	U
				Benzene	0.38	1.1		
				Toluene	0.50	0.49		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:22	12/6/22 9:51	3.9	1,3-Butadiene	0.29	0.13	0.9	U
				Benzene	0.38	1.3		
				Toluene	0.50	0.75		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.34		J
				o-Xylene	0.56	0.26		U
4	12/6/22 9:51	12/19/22 15:06	0.7	1,3-Butadiene	0.31	0.15	0.6	U
				Benzene	0.42	1.1		
				Toluene	0.53	0.67		
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 15:06	1/3/23 14:29	-1.9	1,3-Butadiene	0.27	0.13	0.4	U
				Benzene	0.37	0.92		P
				Toluene	0.47	0.53		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:30	1/17/23 14:04	2.5	1,3-Butadiene	0.29	0.14	0.9	U
				Benzene	0.38	1.4		
				Toluene	0.50	0.69		
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 14:05	2/1/23 12:03	-1.9	1,3-Butadiene	0.27	0.13	0.5	U
				Benzene	0.37	1.2		
				Toluene	0.47	0.59		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

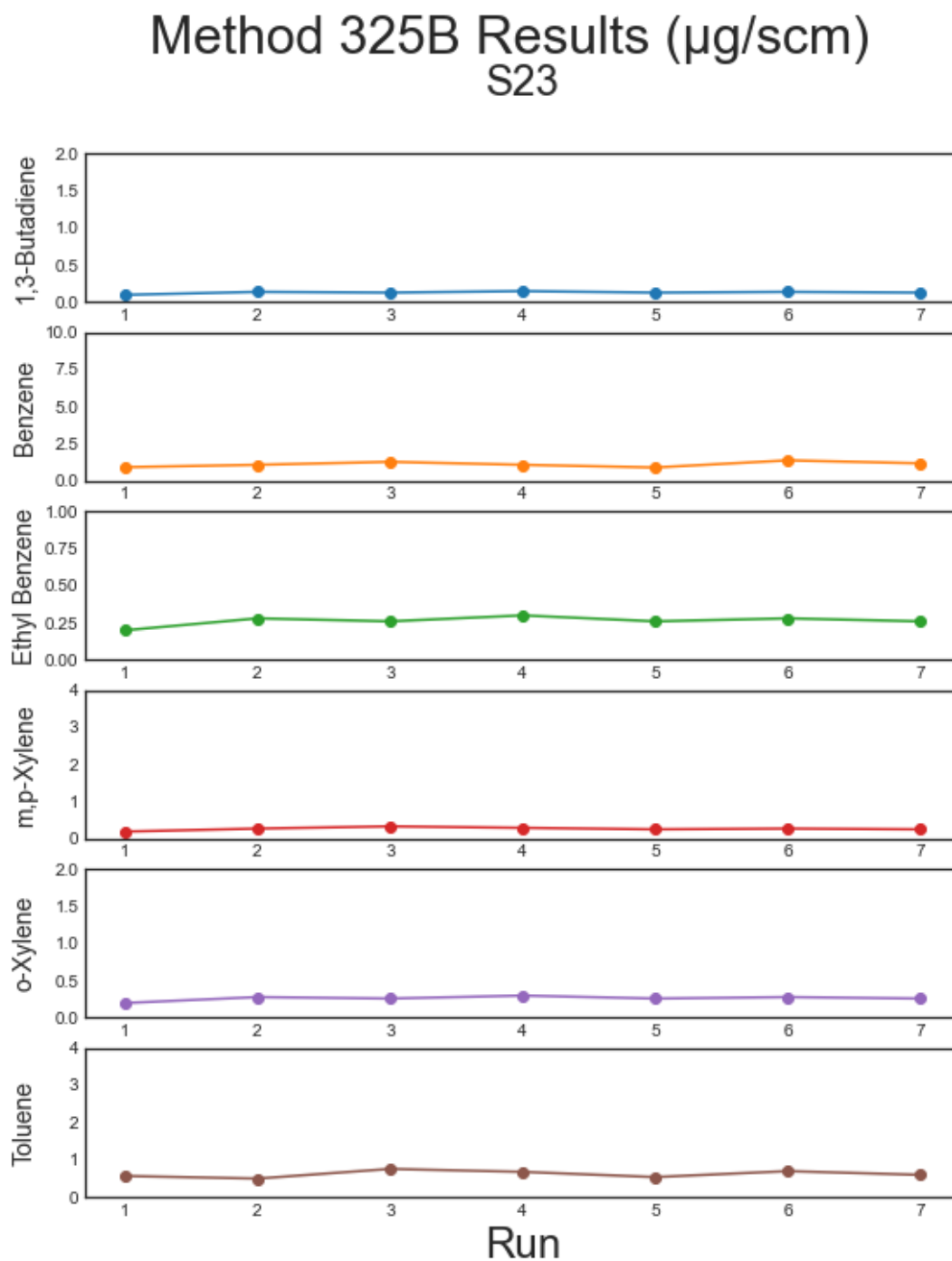
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-23:**  
**Fenceline BTEX Chart – Sampler 23 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-25:**  
**Fenceline BTEX Results – Sampler 24 - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m <sup>3</sup> )	Concentration (µg/m <sup>3</sup> )		Data Flags
						Measured (MFC <sub>i</sub> )	ΔC <sub>i</sub>	
1	10/19/22 9:19	11/7/22 11:59	12.9	1,3-Butadiene	0.21	0.10	0.2	U
				Benzene	0.28	0.60		
				Toluene	0.36	0.45		
				Ethyl Benzene	0.40	0.20		U
				m,p-Xylene	0.40	0.20		U
				o-Xylene	0.40	0.20		U
2	11/7/22 12:00	11/21/22 13:27	3.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.58		
				Toluene	0.50	0.35		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
3	11/21/22 13:28	12/6/22 9:40	3.9	1,3-Butadiene	0.29	0.13	0.5	U
				Benzene	0.38	0.95		
				Toluene	0.50	0.56		
				Ethyl Benzene	0.56	0.26		U
				m,p-Xylene	0.56	0.26		U
				o-Xylene	0.56	0.26		U
4	12/6/22 9:40	12/19/22 15:11	0.7	1,3-Butadiene	0.31	0.15	0.3	U
				Benzene	0.42	0.80		
				Toluene	0.53	0.51		J
				Ethyl Benzene	0.60	0.30		U
				m,p-Xylene	0.60	0.30		U
				o-Xylene	0.60	0.30		U
5	12/19/22 15:12	1/3/23 14:36	-1.9	1,3-Butadiene	0.27	0.13	0.2	U
				Benzene	0.37	0.68		P
				Toluene	0.47	0.51		PC
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U
6	1/3/23 14:37	1/17/23 14:10	2.5	1,3-Butadiene	0.29	0.14	0.2	U
				Benzene	0.38	0.68		
				Toluene	0.50	0.40		J
				Ethyl Benzene	0.56	0.28		U
				m,p-Xylene	0.56	0.28		U
				o-Xylene	0.56	0.28		U
7	1/17/23 14:11	2/1/23 12:09	-1.9	1,3-Butadiene	0.27	0.13	0.3	U
				Benzene	0.37	0.96		
				Toluene	0.47	0.50		
				Ethyl Benzene	0.52	0.26		U
				m,p-Xylene	0.52	0.26		U
				o-Xylene	0.52	0.26		U

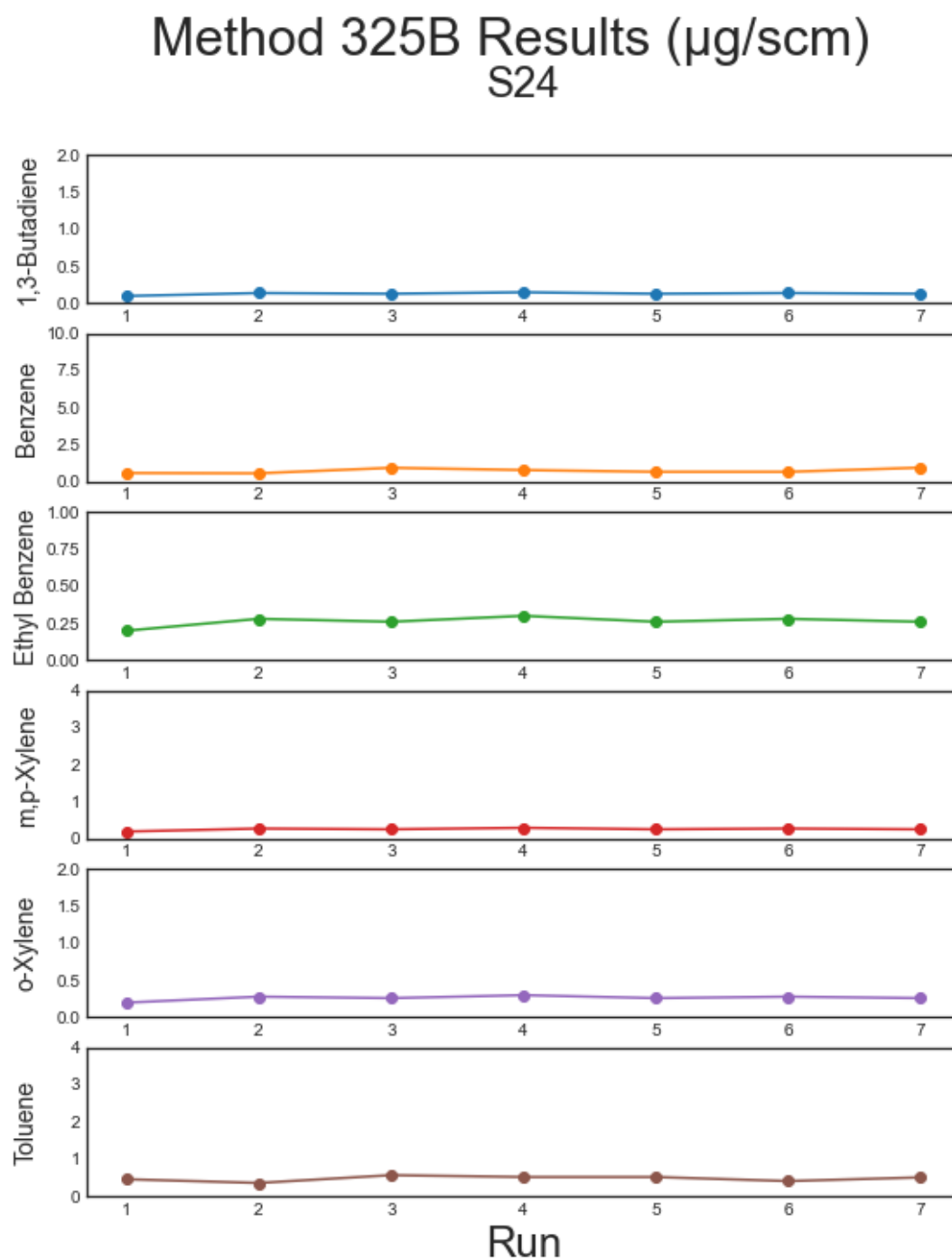
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Figure 2-24:**  
**Fenceline BTEX Chart – Sampler 24 - EPA Method 325A/B (Runs 1 – 7)**



**Table 2-26:**  
**Fenceline BTEX Results – Sampler 01 Duplicates - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Conc. (µg/m3)	Data Flags
1	10/19/22 10:11	11/7/22 9:16	12.9	1,3-Butadiene	0.21	0.10	U
				Benzene	0.28	1.5	
				Toluene	0.36	0.71	
				Ethyl Benzene	0.40	0.20	U
				m,p-Xylene	0.40	0.26	J
				o-Xylene	0.40	0.20	U
2	11/7/22 9:21	11/21/22 11:07	3.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	1.3	
				Toluene	0.50	0.72	
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.30	J
				o-Xylene	0.56	0.28	U
3	11/21/22 11:08	12/6/22 9:26	3.9	1,3-Butadiene	0.29	0.13	U
				Benzene	0.38	2.9	
				Toluene	0.50	1.4	
				Ethyl Benzene	0.56	0.26	U
				m,p-Xylene	0.56	0.43	J
				o-Xylene	0.56	0.26	U
4	12/6/22 9:26	12/19/22 12:42	0.7	1,3-Butadiene	0.31	0.15	U
				Benzene	0.42	0.24	J
				Toluene	0.53	0.27	U
				Ethyl Benzene	0.60	0.30	U
				m,p-Xylene	0.60	0.30	U
				o-Xylene	0.60	0.30	U
5	12/19/22 12:46	1/3/23 12:04	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	1.5	P
				Toluene	0.47	0.66	PC
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U
6	1/3/23 12:06	1/17/23 11:50	2.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	1.2	
				Toluene	0.50	0.57	
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
7	1/17/23 11:52	2/1/23 9:48	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	1.2	
				Toluene	0.47	0.58	
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U

J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

Note: Run 4 is a blank sample.

**Table 2-27:**  
**Fenceline BTEX Results – Sampler 02 Blanks - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Conc. (µg/m3)	Data Flags
1	10/19/22 10:22	11/7/22 9:33	12.9	1,3-Butadiene	0.21	0.10	U
				Benzene	0.28	0.14	U
				Toluene	0.36	0.18	U
				Ethyl Benzene	0.40	0.20	U
				m,p-Xylene	0.40	0.20	U
				o-Xylene	0.40	0.20	U
2	11/7/22 9:35	11/21/22 11:19	3.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.19	U
				Toluene	0.50	0.25	U
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
3	11/21/22 11:21	12/6/22 9:14	3.9	1,3-Butadiene	0.29	0.13	U
				Benzene	0.38	0.19	J
				Toluene	0.50	0.23	U
				Ethyl Benzene	0.56	0.26	U
				m,p-Xylene	0.56	0.26	U
				o-Xylene	0.56	0.26	U
4	12/6/22 9:14	12/19/22 12:57	0.7	1,3-Butadiene	0.31	0.15	U
				Benzene	0.42	0.21	U
				Toluene	0.53	0.27	U
				Ethyl Benzene	0.60	0.30	U
				m,p-Xylene	0.60	0.30	U
				o-Xylene	0.60	0.30	U
5	12/19/22 13:02	1/3/23 12:17	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	0.18	U,P
				Toluene	0.47	0.23	U,PC
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U
6	1/3/23 12:18	1/17/23 12:03	2.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.19	U
				Toluene	0.50	0.25	U
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
7	1/17/23 12:05	2/1/23 10:03	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	0.18	U
				Toluene	0.47	0.23	U
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U

J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Table 2-28:**  
**Fenceline BTEX Results – Sampler 12 Blanks - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Conc. (µg/m3)	Data Flags
1	10/19/22 10:22	11/7/22 9:33	12.9	1,3-Butadiene	0.21	0.10	U
				Benzene	0.28	0.14	U
				Toluene	0.36	0.18	U
				Ethyl Benzene	0.40	0.20	U
				m,p-Xylene	0.40	0.20	U
				o-Xylene	0.40	0.20	U
2	11/7/22 10:27	11/21/22 12:09	3.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.19	U
				Toluene	0.50	0.25	U
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
3	11/21/22 12:11	12/6/22 10:44	3.9	1,3-Butadiene	0.29	0.13	U
				Benzene	0.38	0.23	J
				Toluene	0.50	0.23	U
				Ethyl Benzene	0.56	0.26	U
				m,p-Xylene	0.56	0.26	U
				o-Xylene	0.56	0.26	U
4	12/6/22 10:44	12/19/22 13:47	0.7	1,3-Butadiene	0.31	0.15	U
				Benzene	0.42	0.21	U
				Toluene	0.53	0.27	U
				Ethyl Benzene	0.60	0.30	U
				m,p-Xylene	0.60	0.30	U
				o-Xylene	0.60	0.30	U
5	12/19/22 13:50	1/3/23 13:12	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	0.18	U,P
				Toluene	0.47	0.23	U
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U
6	1/3/23 13:13	1/17/23 12:55	2.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.19	U
				Toluene	0.50	0.25	U
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
7	1/17/23 12:56	2/1/23 10:53	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	0.27	J
				Toluene	0.47	0.23	U
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U

J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

**Table 2-29:**  
**Fenceline BTEX Results – Sampler 13 Duplicates - EPA Method 325A/B (Runs 1 – 7)**

Run	Start Date/Time	Stop Date/Time	Temp. (°C)	Compound	Rep. Limit (µg/m3)	Conc. (µg/m3)	Data Flags
1	10/19/22 12:31	11/7/22 10:53	12.9	1,3-Butadiene	0.21	0.10	U
				Benzene	0.28	0.48	
				Toluene	0.36	0.51	
				Ethyl Benzene	0.40	0.72	
				m,p-Xylene	0.40	3.0	
				o-Xylene	0.40	1.0	
2	11/7/22 10:55	11/21/22 12:33	3.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.60	
				Toluene	0.50	0.40	J
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
3	11/21/22 12:36	12/6/22 10:37	3.9	1,3-Butadiene	0.29	0.13	U
				Benzene	0.38	0.90	
				Toluene	0.50	0.63	
				Ethyl Benzene	0.56	0.26	U
				m,p-Xylene	0.56	0.52	J
				o-Xylene	0.56	0.26	U
4	12/6/22 10:37	12/19/22 14:11	0.7	1,3-Butadiene	0.31	0.15	U
				Benzene	0.42	0.68	B
				Toluene	0.53	0.49	J
				Ethyl Benzene	0.60	0.30	U
				m,p-Xylene	0.60	0.30	U
				o-Xylene	0.60	0.30	U
5	12/19/22 14:15	1/3/23 13:44	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	1.1	P
				Toluene	0.47	0.62	PC
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U
6	1/3/23 13:46	1/17/23 13:19	2.5	1,3-Butadiene	0.29	0.14	U
				Benzene	0.38	0.58	
				Toluene	0.50	0.35	J
				Ethyl Benzene	0.56	0.28	U
				m,p-Xylene	0.56	0.28	U
				o-Xylene	0.56	0.28	U
7	1/17/23 13:20	2/1/23 11:15	-1.9	1,3-Butadiene	0.27	0.13	U
				Benzene	0.37	0.94	
				Toluene	0.47	0.50	
				Ethyl Benzene	0.52	0.26	U
				m,p-Xylene	0.52	0.26	U
				o-Xylene	0.52	0.26	U

B: Compound present in field blank(s) greater than 1/3 the compliance limit or measured target analyte

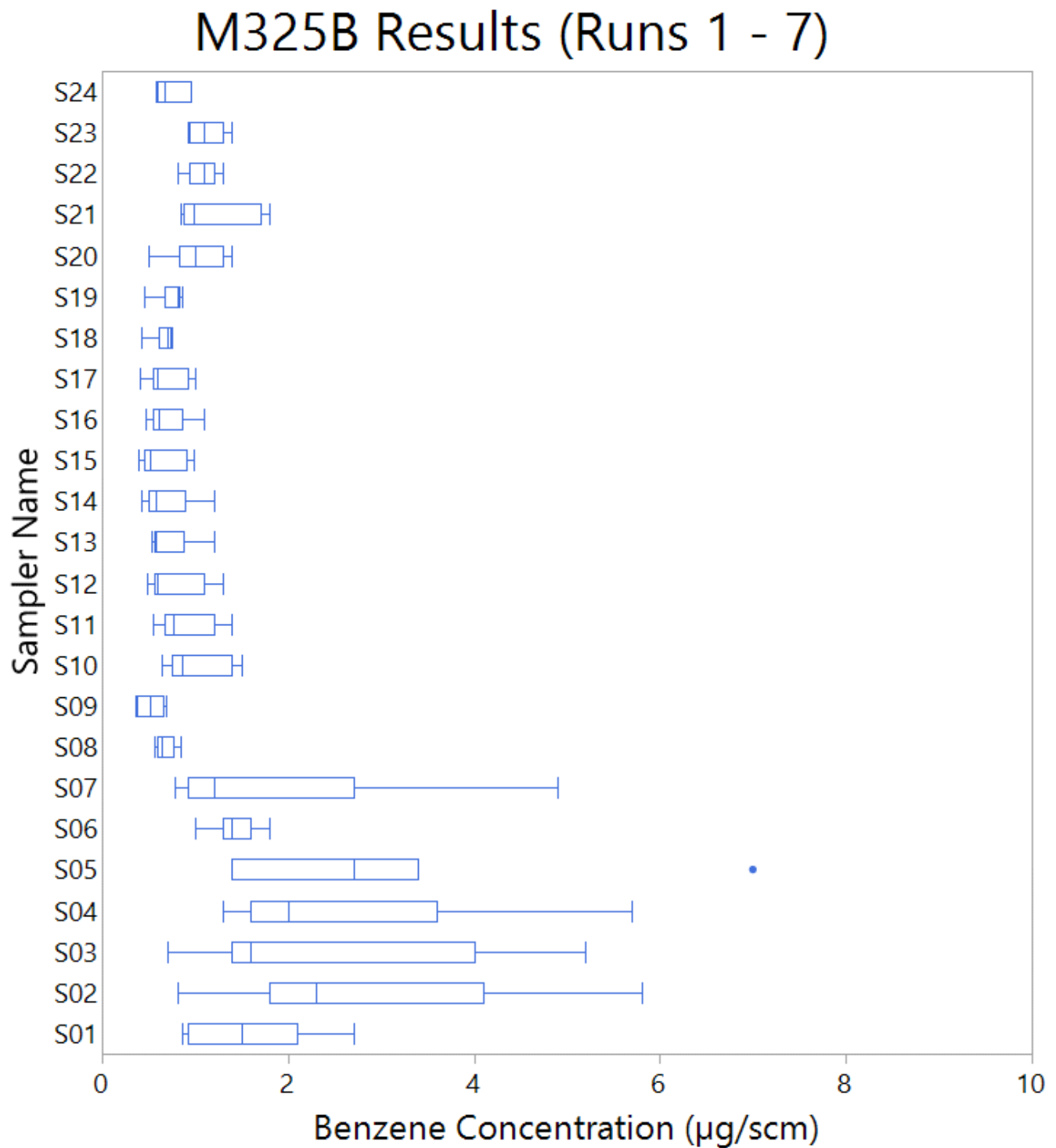
J: Estimated value - analyte detected between the Method Detection Limit and Reporting Limit.

P: Field Duplicate(s) exceed 30%RPD

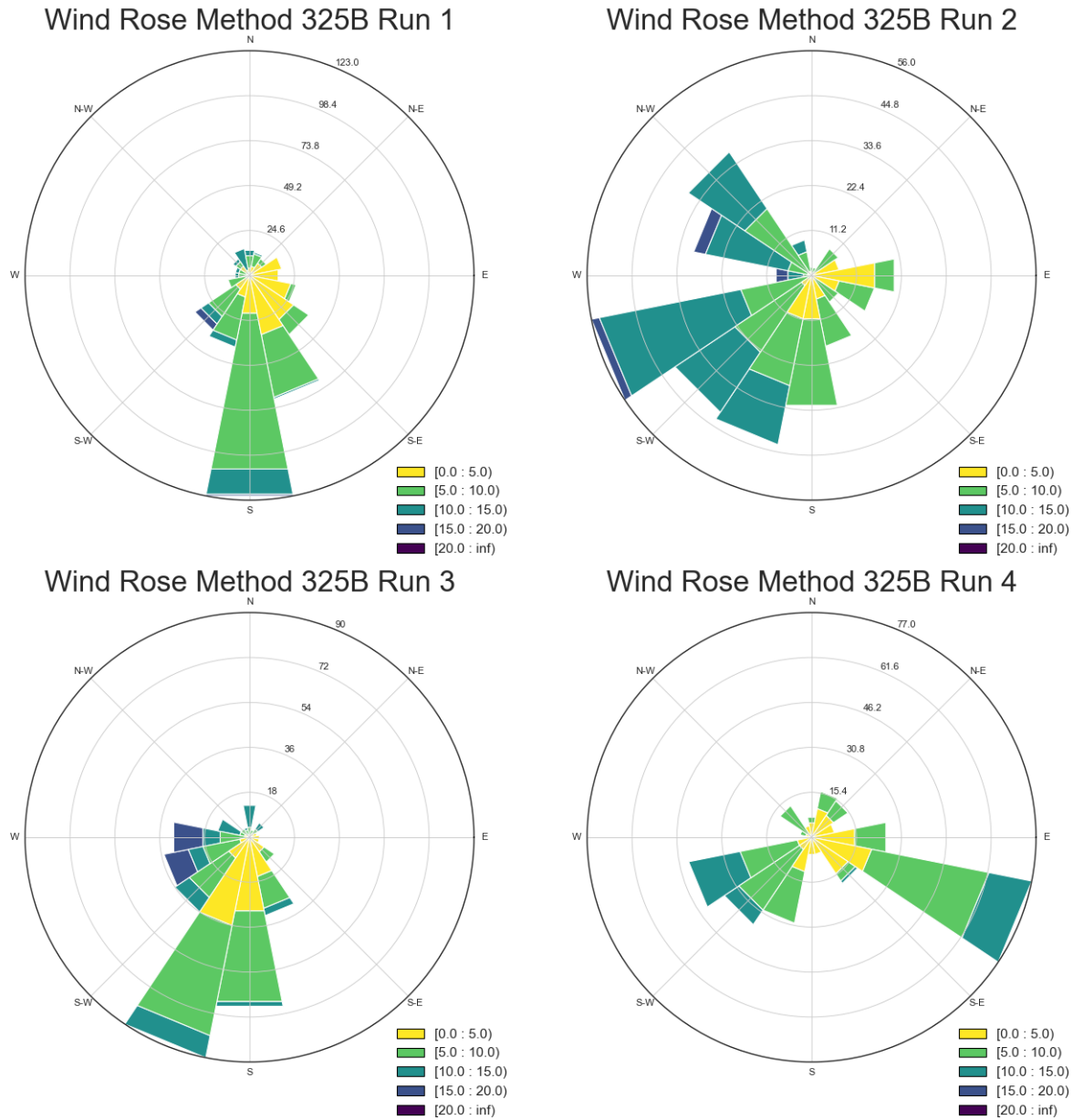
PC: Field Duplicate(s) exceed 30%RPD, concentrations of sample and/or its duplicate less than 2 times reporting limit.

U: Compound analyzed for but not detected above the MDL value.

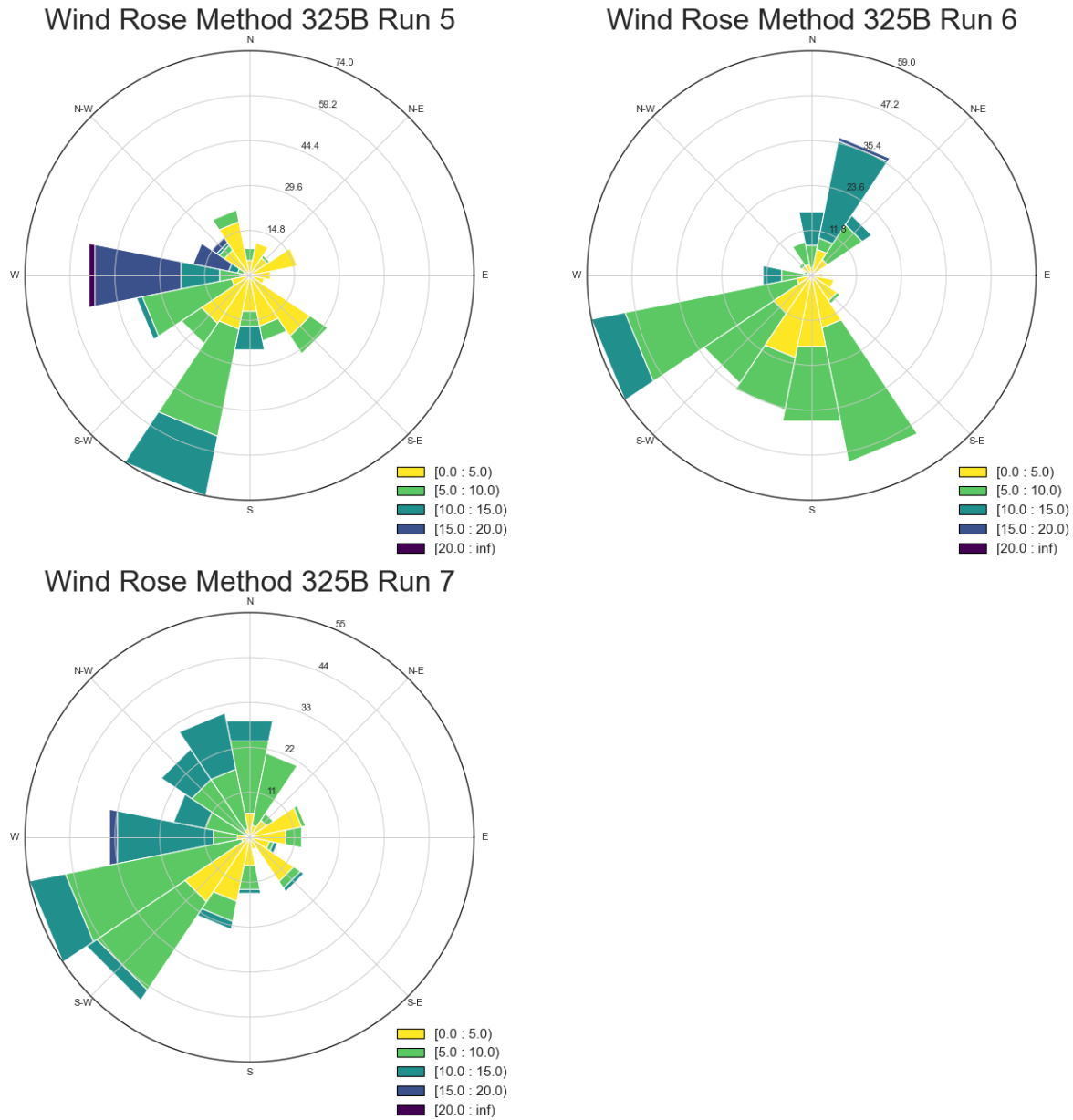
**Figure 2-25:**  
**Fenceline Benzene Results – EPA Method 325A/B 14-Day Monitoring Period (Runs 1 – 7)**



**Figure 2-26:**  
**Meteorological Wind Rose Charts – EPA Method 325A/B 14-Day Monitoring Period (Runs 1 – 4)**



**Figure 2-27:**  
**Meteorological Wind Rose Charts – EPA Method 325A/B 14-Day Monitoring Period (Run 5 - 7)**



**Table 2-30:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 1**

Sample ID No.	R01_UW	R01_DW1	R01_DW2	R01_INT1	R01_INT2
Sampling Location	UPW	DW1	DW2	INT1	INT2
Start Date (2022)	Oct 27	Oct 27	Oct 27	Oct 27	Oct 27
Start Time (approx.)	14:17	15:00	15:42	16:25	16:45
Stop Date (2022)	Oct 28	Oct 28	Oct 28	Oct 28	Oct 28
Stop Time (approx.)	12:57	14:07	14:49	15:22	15:37
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	754.75	754.71	754.76	754.78	754.78
T <sub>s</sub> Temperature (°K)	280.75	281.32	281.22	281.38	281.38
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	22.59	23.15	23.14	22.97	22.83
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2181	0.2432	0.2269	0.2178	0.2190
V <sub>mstd</sub> Volume metered, standard (scm)	295.61	337.83	315.07	300.22	300.05
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0051	0.0065	0.0057	0.2565	0.1500
Acenaphthylene (µg/m3)	<0.0007	0.0009	<0.0006	1.5989	1.9330
Anthracene (µg/m3)	<0.0007	<0.0006	<0.0006	0.5663	0.3333
Benzo(a) anthracene (µg/m3)	<0.0007	<0.0006	<0.0006	0.3264	0.1366
Benzo(a)pyrene (µg/m3)	<0.0007	<0.0006	<0.0006	0.2132	0.0733
Benzo(b)fluoranthene (µg/m3)	<0.0007	<0.0006	<0.0006	0.4330	0.1700
Benzo(e)pyrene (µg/m3)	<0.0007	<0.0006	<0.0006	0.2198	0.0900
Benzo(g,h,i)perylene (µg/m3)	<0.0007	<0.0006	<0.0006	0.1732	0.0633
Benzo(k)fluoranthene (µg/m3)	<0.0007	<0.0006	<0.0006	0.1199	0.0500
Chrysene (µg/m3)	<0.0007	<0.0006	<0.0006	0.3664	0.1633
Dibenzo(a,h)anthracene (µg/m3)	<0.0007	<0.0006	<0.0006	0.0333	0.0140
Fluoranthene (µg/m3)	<0.0007	0.0010	<0.0006	1.4656	0.6999
Fluorene (µg/m3)	0.0037	0.0044	0.0035	0.6995	0.6666
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0007	<0.0006	<0.0006	0.2198	0.0767
Naphthalene (µg/m3)	0.0152	0.0888	0.0140	29.3123	46.6594
Perylene (µg/m3)	<0.0007	<0.0006	<0.0006	0.0799	0.0260
Phenanthrene (µg/m3)	0.0061	0.0065	0.0044	2.9312	1.6997
Pyrene (µg/m3)	<0.0007	0.0007	<0.0006	1.0326	0.4999

**Table 2-31:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 2**

Sample ID No.	R02_UW	R02_DW1	R02_DW2	R02_INT1	R02_INT2
<b>Sampling Location</b>	<b>UPW</b>	<b>DW1</b>	<b>DW2</b>	<b>INT1</b>	<b>INT2</b>
Start Date (2022)	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8
Start Time (approx.)	12:32	10:53	11:25	09:56	10:21
Stop Date (2022)	Nov 9	Nov 9	Nov 9	Nov 9	Nov 9
Stop Time (approx.)	12:00	10:35	11:15	09:34	10:00
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	754.85	755.56	755.21	755.92	755.56
T <sub>s</sub> Temperature (°K)	283.45	283.07	283.26	282.98	283.07
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	23.47	23.69	23.68	23.63	23.65
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2211	0.2197	0.2208	0.2213	0.2159
V <sub>mstd</sub> Volume metered, standard (scm)	311.38	312.25	313.68	313.70	306.42
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0039	0.0074	0.0024	0.1976	0.0653
Acenaphthylene (µg/m3)	<0.0006	0.0090	<0.0006	2.2633	0.2774
Anthracene (µg/m3)	<0.0006	0.0064	<0.0006	0.7013	0.2709
Benzo(a) anthracene (µg/m3)	<0.0006	0.0029	<0.0006	0.3188	0.1436
Benzo(a)pyrene (µg/m3)	<0.0006	0.0022	<0.0006	0.1913	0.0849
Benzo(b)fluoranthene (µg/m3)	<0.0006	0.0045	<0.0006	0.3825	0.1762
Benzo(e)pyrene (µg/m3)	<0.0006	0.0023	<0.0006	0.1721	0.0849
Benzo(g,h,i)perylene (µg/m3)	<0.0006	0.0017	<0.0006	0.1179	0.0555
Benzo(k)fluoranthene (µg/m3)	<0.0006	0.0014	<0.0006	0.1307	0.0653
Chrysene (µg/m3)	<0.0006	0.0035	<0.0006	0.3507	0.1730
Dibenzo(a,h)anthracene (µg/m3)	<0.0006	<0.0006	<0.0006	<0.0638	<0.0326
Fluoranthene (µg/m3)	<0.0006	0.0141	0.0009	1.4345	0.7180
Fluorene (µg/m3)	0.0027	0.0141	0.0023	1.1795	0.2872
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0006	0.0020	<0.0006	0.1371	0.0685
Naphthalene (µg/m3)	0.0045	0.1857	0.0051	23.2708	3.1983
Perylene (µg/m3)	<0.0006	<0.0006	<0.0006	<0.0638	<0.0326
Phenanthrene (µg/m3)	0.0039	0.0307	0.0032	3.0284	1.2401
Pyrene (µg/m3)	<0.0006	0.0077	<0.0006	0.8607	0.4243

**Table 2-32:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 3**

Sample ID No.	R03_UW	R03_DW1	R03_DW2	R03_INT1	R03_INT2
Sampling Location	UPW	DW1	DW2	INT1	INT2
Start Date (2022)	Nov 22	Nov 22	Nov 22	Nov 22	Nov 22
Start Time (approx.)	14:42	13:36	14:09	12:56	12:35
Stop Date (2022)	Nov 23	Nov 23	Nov 23	Nov 23	Nov 23
Stop Time (approx.)	12:45	11:36	12:09	11:12	10:53
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	749.38	749.40	749.38	749.40	749.39
T <sub>s</sub> Temperature (°K)	277.94	277.79	277.94	278.10	277.73
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	22.02	22.02	22.21	22.27	22.30
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2225	0.2270	0.2013	0.2295	0.2261
V <sub>mstd</sub> Volume metered, standard (scm)	293.93	299.91	268.28	306.65	302.48
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0032	0.0063	0.0060	<0.0163	0.1620
Acenaphthylene (µg/m3)	<0.0007	<0.0033	0.0093	0.1011	4.2978
Anthracene (µg/m3)	<0.0007	<0.0033	0.0045	<0.0163	0.2050
Benzo(a) anthracene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Benzo(a)pyrene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Benzo(b)fluoranthene (µg/m3)	<0.0007	<0.0033	0.0045	<0.0163	<0.0165
Benzo(e)pyrene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Benzo(g,h,i)perylene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Benzo(k)fluoranthene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Chrysene (µg/m3)	<0.0007	<0.0033	0.0045	<0.0163	<0.0165
Dibenzo(a,h)anthracene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Fluoranthene (µg/m3)	0.0009	<0.0033	0.0160	<0.0163	0.1190
Fluorene (µg/m3)	0.0037	0.0063	0.0123	0.0489	1.4546
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Naphthalene (µg/m3)	0.0153	0.0634	0.1938	4.5655	66.1195
Perylene (µg/m3)	<0.0007	<0.0033	<0.0037	<0.0163	<0.0165
Phenanthrene (µg/m3)	0.0065	0.0107	0.0298	0.0424	1.0249
Pyrene (µg/m3)	<0.0007	<0.0033	0.0101	<0.0163	0.0628

**Table 2-33:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 4**

Sample ID No.	R04_UW	R04_DW1	R04_DW2	R04_INT1	R04_INT2
<b>Sampling Location</b>	<b>UPW</b>	<b>DW1</b>	<b>DW2</b>	<b>INT1</b>	<b>INT2</b>
Start Date (2022)	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6
Start Time (approx.)	14:09	13:08	13:38	12:30	12:16
Stop Date (2022)	Dec 7	Dec 7	Dec 7	Dec 7	Dec 7
Stop Time (approx.)	13:36	12:16	12:48	11:55	11:33
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	748.47	748.18	748.18	747.90	747.90
T <sub>s</sub> Temperature (°K)	278.41	278.39	278.39	278.31	278.31
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	23.46	23.13	23.16	23.40	24.18
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2248	0.2279	0.2257	0.2268	0.2307
V <sub>mstd</sub> Volume metered, standard (scm)	316.46	316.27	313.65	318.41	334.67
<b><u>PAHs</u></b>					
Acenaphthene (µg/m3)	0.0057	0.0085	0.0038	0.0258	0.0807
Acenaphthylene (µg/m3)	0.0041	0.0443	0.0009	0.2010	2.2410
Anthracene (µg/m3)	0.0011	0.0021	0.0083	0.0597	0.2241
Benzo(a) anthracene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0377	0.0657
Benzo(a)pyrene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0195	0.0329
Benzo(b)fluoranthene (µg/m3)	0.0007	<0.0006	<0.0006	0.0345	0.0627
Benzo(e)pyrene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0154	0.0296
Benzo(g,h,i)perylene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0116	0.0215
Benzo(k)fluoranthene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0122	0.0224
Chrysene (µg/m3)	<0.0006	0.0008	<0.0006	0.0345	0.0657
Dibenzo(a,h)anthracene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0038	0.0066
Fluoranthene (µg/m3)	0.0027	0.0082	0.0026	0.1256	0.2659
Fluorene (µg/m3)	0.0070	0.0196	0.0051	0.1131	0.8665
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0141	0.0272
Naphthalene (µg/m3)	0.1201	0.3794	0.0255	4.7109	35.8563
Perylene (µg/m3)	<0.0006	<0.0006	<0.0006	0.0050	0.0102
Phenanthrene (µg/m3)	0.0149	0.0193	0.0077	0.2355	0.9562
Pyrene (µg/m3)	0.0015	0.0047	0.0012	0.0691	0.1494

**Table 2-34:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 5**

Sample ID No.	R05_UW	R05_DW1	R05_DW2	R05_INT1	R05_INT2
<b>Sampling Location</b>	<b>UPW</b>	<b>DW1</b>	<b>DW2</b>	<b>INT1</b>	<b>INT2</b>
Start Date (2022)	Dec 20	Dec 20	Dec 20	Dec 20	Dec 20
Start Time (approx.)	14:00	12:14	13:03	11:06	11:34
Stop Date (2022)	Dec 21	Dec 21	Dec 21	Dec 21	Dec 21
Stop Time (approx.)	12:08	11:05	11:35	10:09	10:43
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	756.39	756.47	756.50	756.52	756.52
T <sub>s</sub> Temperature (°K)	271.69	271.77	271.67	271.84	271.84
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	22.15	22.86	22.61	23.06	23.14
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2354	0.2248	0.2252	0.2277	0.2226
V <sub>mstd</sub> Volume metered, standard (scm)	312.82	308.29	305.46	314.98	309.05
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0018	0.0025	0.0020	0.0603	0.1068
Acenaphthylene (µg/m3)	0.0022	0.0008	<0.0007	0.4127	2.2003
Anthracene (µg/m3)	<0.0006	<0.0006	<0.0007	0.1175	0.1585
Benzo(a) anthracene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0921	0.0485
Benzo(a)pyrene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0508	0.0223
Benzo(b)fluoranthene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0762	0.0421
Benzo(e)pyrene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0349	0.0191
Benzo(g,h,i)perylene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0276	0.0133
Benzo(k)fluoranthene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0286	0.0146
Chrysene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0794	0.0453
Dibenzo(a,h)anthracene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0086	0.0042
Fluoranthene (µg/m3)	0.0018	0.0017	0.0011	0.2159	0.1618
Fluorene (µg/m3)	0.0027	0.0025	0.0021	0.1968	0.7118
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0349	0.0168
Naphthalene (µg/m3)	0.0895	0.0422	0.0183	11.1119	97.0703
Perylene (µg/m3)	<0.0006	<0.0006	<0.0007	0.0137	0.0061
Phenanthrene (µg/m3)	0.0061	0.0055	0.0039	0.3810	0.6471
Pyrene (µg/m3)	0.0011	0.0010	0.0009	0.1587	0.1068

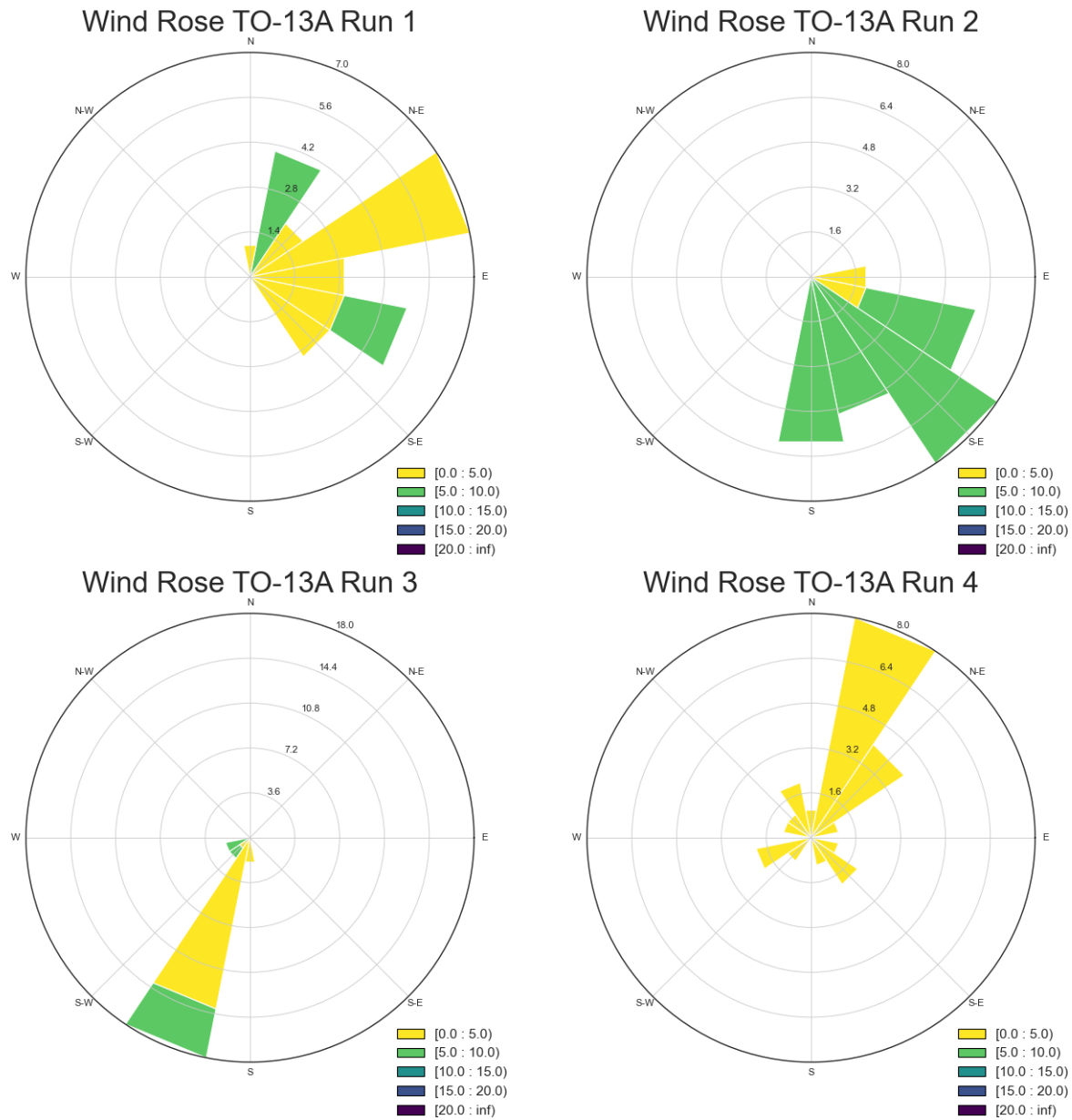
**Table 2-35:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 6**

Sample ID No.	R06_UW	R06_DW1	R06_DW2	R06_INT1	R06_INT2
<b>Sampling Location</b>	<b>UPW</b>	<b>DW1</b>	<b>DW2</b>	<b>INT1</b>	<b>INT2</b>
Start Date (2023)	Jan 4	Jan 4	Jan 4	Jan 4	Jan 4
Start Time (approx.)	13:17	12:17	12:43	11:29	11:53
Stop Date (2023)	Jan 5	Jan 5	Jan 5	Jan 5	Jan 5
Stop Time (approx.)	11:57	10:53	11:22	10:08	10:32
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	741.03	740.88	740.90	740.75	740.75
T <sub>s</sub> Temperature (°K)	274.23	274.30	274.27	274.41	274.41
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	22.68	22.61	22.72	22.66	22.66
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2254	0.2246	0.2249	0.2297	0.2311
V <sub>mstd</sub> Volume metered, standard (scm)	306.71	304.68	306.54	312.25	314.25
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0019	0.0030	0.0030	0.1089	<0.0318
Acenaphthylene (µg/m3)	<0.0007	0.0023	0.0082	2.7222	0.0382
Anthracene (µg/m3)	<0.0007	<0.0007	0.0019	0.1153	<0.0318
Benzo(a) anthracene (µg/m3)	<0.0007	<0.0007	0.0007	<0.0641	<0.0318
Benzo(a)pyrene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Benzo(b)fluoranthene (µg/m3)	<0.0007	<0.0007	0.0010	<0.0641	<0.0318
Benzo(e)pyrene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Benzo(g,h,i)perylene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Benzo(k)fluoranthene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Chrysene (µg/m3)	<0.0007	<0.0007	0.0010	<0.0641	<0.0318
Dibenzo(a,h)anthracene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Fluoranthene (µg/m3)	<0.0007	0.0014	0.0039	<0.0641	<0.0318
Fluorene (µg/m3)	0.0015	0.0036	0.0049	0.8967	<0.0318
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Naphthalene (µg/m3)	0.0147	0.2330	0.1892	73.6599	1.4001
Perylene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0641	<0.0318
Phenanthrene (µg/m3)	0.0027	0.0066	0.0121	0.5765	<0.0318
Pyrene (µg/m3)	<0.0007	0.0011	0.0031	<0.0641	<0.0318

**Table 2-36:**  
**Fenceline and Interior Stations – TO-13A (PAH) Results – Run 7**

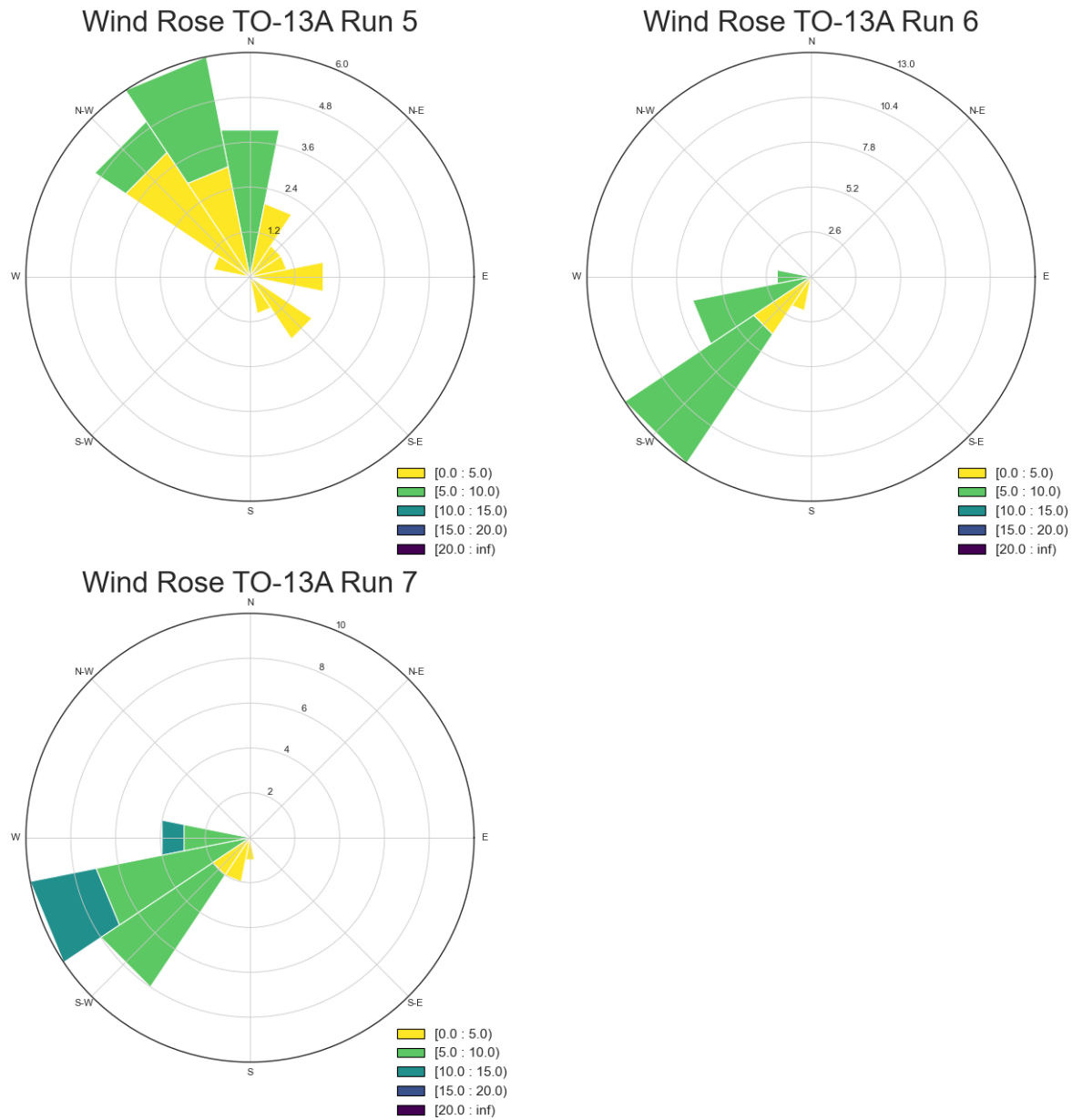
Sample ID No.	R07_UW	R07_DW1	R07_DW2	R07_INT1	R07_INT2
Sampling Location	UPW	DW1	DW2	INT1	INT2
Start Date (2023)	Jan 23	Jan 23	Jan 23	Jan 23	Jan 23
Start Time (approx.)	13:31	12:31	12:58	11:45	12:06
Stop Date (2023)	Jan 24	Jan 24	Jan 24	Jan 24	Jan 24
Stop Time (approx.)	12:02	10:54	11:29	10:07	10:27
<b>Meteorological Conditions</b>					
P <sub>bar</sub> Barometric pressure (mm Hg)	748.80	748.57	748.65	748.51	748.57
T <sub>s</sub> Temperature (°K)	271.94	272.03	272.02	272.09	272.03
<b>Sampling Parameters</b>					
θ Total sampling time (hours)	22.52	22.40	22.57	22.38	22.34
Q <sub>s</sub> Sample flow rate, standard (scm /min)	0.2248	0.2237	0.2211	0.2240	0.2228
V <sub>mstd</sub> Volume metered, standard (scm)	303.76	300.68	299.46	300.80	298.67
<b>PAHs</b>					
Acenaphthene (µg/m3)	0.0017	0.0047	0.0030	0.0731	<0.0134
Acenaphthylene (µg/m3)	<0.0007	0.0019	0.0033	1.2633	0.0248
Anthracene (µg/m3)	0.0036	0.0008	0.0017	0.0931	<0.0134
Benzo(a) anthracene (µg/m3)	<0.0007	<0.0007	0.0007	0.0060	<0.0134
Benzo(a)pyrene (µg/m3)	<0.0007	<0.0007	<0.0007	0.0047	<0.0134
Benzo(b)fluoranthene (µg/m3)	<0.0007	<0.0007	0.0014	0.0070	<0.0134
Benzo(e)pyrene (µg/m3)	<0.0007	<0.0007	0.0007	0.0033	<0.0134
Benzo(g,h,i)perylene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0033	<0.0134
Benzo(k)fluoranthene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0033	<0.0134
Chrysene (µg/m3)	<0.0007	<0.0007	0.0012	0.0063	<0.0134
Dibenzo(a,h)anthracene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0033	<0.0134
Fluoranthene (µg/m3)	<0.0007	0.0024	0.0047	0.0565	0.0208
Fluorene (µg/m3)	0.0018	0.0106	0.0053	0.6316	0.0288
Indeno(1,2,3-cd)pyrene (µg/m3)	<0.0007	<0.0007	<0.0007	0.0037	<0.0134
Naphthalene (µg/m3)	0.0105	1.5299	0.2004	59.8402	1.0379
Perylene (µg/m3)	<0.0007	<0.0007	<0.0007	<0.0033	<0.0134
Phenanthrene (µg/m3)	0.0032	0.0126	0.0117	0.3989	0.0469
Pyrene (µg/m3)	<0.0007	0.0017	0.0030	0.0309	0.0147

**Figure 2-28:**  
**Meteorological Wind Rose Charts – TO-13A 24-Hour Monitoring Period (Runs 1 – 4)**



Wind speed units = meters/second

**Figure 2-29:**  
**Meteorological Wind Rose Charts – TO-13A 24-Hour Monitoring Period (Run 5 - 7)**



**Table 2-37:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 1 Results**

Sample ID	R01_UW	R01_DW1_D1	R01_DW1_D2	R01_DW2	R01_INT2
Sampling Location	UW	DW2	DW2	DW1	INT2
Start Date (2022)	Oct 27	Oct 27	Oct 27	Oct 27	Oct 27
Start Time (approx.)	14:19	15:00	15:00	15:42	16:45
Stop Date (2022)	Oct 28	Oct 28	Oct 28	Oct 28	Oct 28
Stop Time (approx.)	12:57	14:07	14:07	14:49	15:38
<b>Sampling Parameters</b>					
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-28.0	-30.0	-30.0	-27.0	-30.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-11.0	-11.0	-11.0	-9.0	-10.0
<b>Results</b>					
Acetone (µg/m3)	9.4	5.8	6.7	7.4	5.1
Benzene (µg/m3)	0.38	3.9	4	0.32	110
Benzyl chloride (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane (µg/m3)	<0.23	<0.23	<0.23	<0.23	<0.23
Bromoform (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36
Bromomethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
1,3-Butadiene (µg/m3)	<0.08	0.11	<0.08	<0.08	0.93
2-Butanone (MEK) (µg/m3)	<4.1	<4.1	<4.1	<4.1	<4.1
Carbon Disulfide (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1
Carbon Tetrachloride (µg/m3)	0.67	0.57	0.37	0.61	0.61
Chlorobenzene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09
Chloroform (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17
Chloromethane (µg/m3)	1.1	1	1.2	1.1	1.1
Cyclohexane (µg/m3)	<0.12	<0.12	<0.12	<0.12	0.23
Dibromochloromethane (µg/m3)	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane (EDB) (µg/m3)	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21
1,3-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21
1,4-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21
Dichlorodifluoromethane (Freon 12) (µg/m3)	2.8	2.6	3	2.6	2.4
1,1-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
1,1-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloropropane (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24
1,4-Dioxane (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3

**Table 2-37:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 1 Results (Continued)**

Sample ID	R01_UW	R01_DW1_D1	R01_DW1_D2	R01_DW2	R01_INT2
Sampling Location	UW	DW2	DW2	DW1	INT2
Start Date (2022)	Oct 27	Oct 27	Oct 27	Oct 27	Oct 27
Start Time (approx.)	14:19	15:00	15:00	15:42	16:45
Stop Date (2022)	Oct 28	Oct 28	Oct 28	Oct 28	Oct 28
Stop Time (approx.)	12:57	14:07	14:07	14:49	15:38
<b>Sampling Parameters</b>					
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-28.0	-30.0	-28.0	-27.0	-30.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-11.0	-11.0	-3.0	-9.0	-10.0
<b>Results</b>					
Ethanol (µg/m3)	6.7	5.1	5.1	5.7	6
Ethyl Acetate (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.65
4-Ethyltoluene (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17
Heptane (µg/m3)	0.14	0.18	<0.14	0.26	0.35
Hexachlorobutadiene (µg/m3)	<0.37	<0.37	<0.37	<0.37	<0.37
Hexane (µg/m3)	<4.9	<4.9	<4.9	<4.9	<4.9
2-Hexanone (MBK) (µg/m3)	0.48	<0.14	<0.14	<0.14	<0.14
Isopropanol (µg/m3)	<3.4	<3.4	<3.4	<3.4	<3.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride (µg/m3)	<1.2	<1.2	<1.2	<1.2	<1.2
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14
Naphthalene (µg/m3)	<0.18	<0.18	2.1	<0.18	140
Propene (µg/m3)	<2.4	<2.4	<2.4	<2.4	5.9
Styrene (µg/m3)	<0.15	<0.15	0.17	<0.15	8
1,1,2,2-Tetrachloroethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethylene (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrahydrofuran (µg/m3)	<1	<1	<1	<1	<1
Toluene (µg/m3)	0.53	1	1	0.4	36
1,2,4-Trichlorobenzene (µg/m3)	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,1-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethylene (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19
Trichlorofluoromethane (Freon 11) (µg/m3)	1.4	1.2	1.3	1.3	1.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1
1,2,4-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	3.3
1,3,5-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	2.1
Vinyl Acetate (µg/m3)	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl Chloride (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09
m&p-Xylene (µg/m3)	<0.3	0.31	<0.3	<0.3	15
o-Xylene (µg/m3)	<0.15	<0.15	<0.15	<0.15	3.9

**Table 2-38:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 2 Results**

Sample ID	R02_UW	R02_DW2_D1	R02_DW2_D2	R02_DW1	R02_INT1	R02_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8
Start Time (approx.)	12:40	11:36	11:36	10:49	09:43	10:08
Stop Date (2022)	Nov 9	Nov 9	Nov 9	Nov 9	Nov 9	Nov 9
Stop Time (approx.)	11:59	11:14	11:14	10:33	09:34	09:59
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-28.0	-29.0	-29.0	-30.0	-29.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-6.0	-8.0	-8.0	-8.0	.0	-7.0
<b>Results</b>						
Acetone (µg/m3)	5.8	12	17	15	15	11
Benzene (µg/m3)	0.29	0.31	0.33	2.8	160	35
Benzyl chloride (µg/m3)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Bromodichloromethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Bromoform (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromomethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,3-Butadiene (µg/m3)	<0.08	<0.08	<0.08	0.08	2.2	0.25
2-Butanone (MEK) (µg/m3)	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Carbon Disulfide (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Carbon Tetrachloride (µg/m3)	0.39	0.4	0.39	0.41	0.43	0.41
Chlorobenzene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Chloroform (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chloromethane (µg/m3)	0.92	0.89	0.92	0.85	0.85	0.87
Cyclohexane (µg/m3)	<0.12	<0.12	<0.12	<0.12	0.31	<0.12
Dibromochloromethane (µg/m3)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane (EDB) (µg/m3)	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,3-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,4-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Dichlorodifluoromethane (Freon 12) (µg/m3)	1.3	1.1	1.2	1.2	1.5	1.3
1,1-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloropropane (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,4-Dioxane (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3

**Table 2-38:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 2 Results (Continued)**

Sample ID	R02_UW	R02_DW2_D1	R02_DW2_D2	R02_DW1	R02_INT1	R02_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8	Nov 8
Start Time (approx.)	12:40	11:36	11:36	10:49	09:43	10:08
Stop Date (2022)	Nov 9	Nov 9	Nov 9	Nov 9	Nov 9	Nov 9
Stop Time (approx.)	11:59	11:14	11:14	10:33	09:34	09:59
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-28.0	-29.0	-30.0	-30.0	-29.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-6.0	-8.0	-7.5	-8.0	.0	-7.0
<b>Results</b>						
Ethanol (µg/m3)	6.1	7.1	8.4	7	6.8	7
Ethyl Acetate (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.5	0.15
4-Ethyltoluene (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Heptane (µg/m3)	<0.14	0.2	0.16	<0.15	0.44	0.17
Hexachlorobutadiene (µg/m3)	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Hexane (µg/m3)	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
2-Hexanone (MBK) (µg/m3)	<0.14	0.4	0.51	0.42	0.29	0.43
Isopropanol (µg/m3)	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride (µg/m3)	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.14	<0.14	0.16	<0.14	<0.14	<0.14
Naphthalene (µg/m3)	<0.18	<0.18	<0.18	0.66	150	16
Propene (µg/m3)	<2.4	<2.4	<2.4	<2.4	14	<2.4
Styrene (µg/m3)	<0.15	<0.15	<0.15	<0.15	7.1	1.4
1,1,2,2-Tetrachloroethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethylene (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	0.59
Tetrahydrofuran (µg/m3)	<1	<1	<1	<1	<1	<1
Toluene (µg/m3)	0.25	0.25	0.24	0.64	40	8.2
1,2,4-Trichlorobenzene (µg/m3)	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,1-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethylene (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichlorofluoromethane (Freon 11) (µg/m3)	1.3	1.2	1.3	1.2	1.4	1.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
1,2,4-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	2.9	0.49
1,3,5-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	1.8	0.25
Vinyl Acetate (µg/m3)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl Chloride (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
m&p-Xylene (µg/m3)	<0.3	<0.3	<0.3	<0.3	15	2.6
o-Xylene (µg/m3)	<0.15	<0.15	<0.15	<0.15	3.3	0.56

**Table 2-39:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 3 Results**

Sample ID	R03_UW	R03_DW2_D1	R03_DW2_D2	R03_DW1	R03_INT1	R03_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Nov 22	Nov 22	Nov 22	Nov 22	Nov 22	Nov 22
Start Time (approx.)	14:51	14:13	14:13	13:40	12:58	12:18
Stop Date (2022)	Nov 23	Nov 23	Nov 23	Nov 23	Nov 23	Nov 23
Stop Time (approx.)	12:42	12:06	12:06	11:32	11:09	10:46
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-29.0	-30.0	-28.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-9.0	-10.0	-10.0	-7.0	-8.0	-8.0
<b>Results</b>						
Acetone (µg/m3)	11	12	10	15	15	15
Benzene (µg/m3)	0.92	2.4	2.3	0.84	910	100
Benzyl chloride (µg/m3)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Bromodichloromethane (µg/m3)	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Bromoform (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromomethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,3-Butadiene (µg/m3)	<0.08	<0.08	<0.08	<0.08	4.8	<0.08
2-Butanone (MEK) (µg/m3)	<4.1	<4.1	<4.1	<4.1	<4.1	4.2
Carbon Disulfide (µg/m3)	<1.1	<1.1	<1.1	<1.1	2.9	<1.1
Carbon Tetrachloride (µg/m3)	0.43	0.28	0.42	0.47	0.39	0.46
Chlorobenzene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Chloroform (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chloromethane (µg/m3)	0.97	1.1	1	1	1	1
Cyclohexane (µg/m3)	0.18	0.19	0.22	0.24	0.78	0.41
Dibromochloromethane (µg/m3)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane (EDB) (µg/m3)	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,3-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,4-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Dichlorodifluoromethane (Freon 12) (µg/m3)	2.8	2.8	2.8	3	2.7	3.1
1,1-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloropropane (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
1,4-Dioxane (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3

**Table 2-39:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 3 Results (Continued)**

Sample ID	R03_UW	R03_DW2_D1	R03_DW2_D2	R03_DW1	R03_INT1	R03_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Nov 22	Nov 22	Nov 22	Nov 22	Nov 22	Nov 22
Start Time (approx.)	14:51	14:13	14:13	13:40	12:58	12:18
Stop Date (2022)	Nov 23	Nov 23	Nov 23	Nov 23	Nov 23	Nov 23
Stop Time (approx.)	12:42	12:06	12:06	11:32	11:09	10:46
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-29.0	-29.0	-30.0	-28.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-9.0	-10.0	-7.0	-7.0	-8.0	-8.0
<b>Results</b>						
Ethanol (µg/m3)	10	9.7	9.7	10	12	13
Ethyl Acetate (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene (µg/m3)	0.15	<0.15	<0.15	0.16	1.9	0.4
4-Ethyltoluene (µg/m3)	<0.17	<0.17	<0.17	<0.17	0.4	<0.17
Heptane (µg/m3)	0.37	0.34	0.33	0.36	0.69	0.42
Hexachlorobutadiene (µg/m3)	<0.37	<0.37	<0.37	<0.37	1.3	<0.37
Hexane (µg/m3)	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
2-Hexanone (MBK) (µg/m3)	<0.29	0.38	<0.29	<0.29	<0.29	0.69
Isopropanol (µg/m3)	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride (µg/m3)	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.14	0.28	<0.14	<0.14	0.15	0.16
Naphthalene (µg/m3)	0.5	2.1	1.2	4.6	480	30
Propene (µg/m3)	<2.4	<2.4	<2.4	<2.4	24	<2.4
Styrene (µg/m3)	<0.15	<0.15	<0.15	<0.15	46	3.8
1,1,2,2-Tetrachloroethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethylene (µg/m3)	<0.24	0.3	<0.24	<0.24	<0.24	<0.24
Tetrahydrofuran (µg/m3)	<1	<1	<1	<1	<1	<1
Toluene (µg/m3)	0.8	0.85	0.83	0.87	160	21
1,2,4-Trichlorobenzene (µg/m3)	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,1-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethylene (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichlorofluoromethane (Freon 11) (µg/m3)	1.3	1.4	1.4	1.4	1.4	1.5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
1,2,4-Trimethylbenzene (µg/m3)	0.18	0.21	0.21	0.22	13	1.2
1,3,5-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	9.6	0.89
Vinyl Acetate (µg/m3)	<2.5	<2.5	<2.5	2.5	<2.5	<2.5
Vinyl Chloride (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
m&p-Xylene (µg/m3)	0.34	0.36	0.35	0.4	66	7.1
o-Xylene (µg/m3)	<0.15	0.15	<0.15	0.17	15	1.7

**Table 2-40:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 4 Results**

Sample ID	R04_UW	R04_DW2_D1	R04_DW2_D2	R04_DW1	R04_INT1	R04_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6
Start Time (approx.)	14:09	13:39	13:39	13:09	13:34	12:18
Stop Date (2022)	Dec 7	Dec 7	Dec 7	Dec 7	Dec 7	Dec 7
Stop Time (approx.)	13:35	12:48	12:48	12:17	11:53	11:33
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-28.0	-28.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-6.0	-7.0	-7.0	-5.0	-8.0	-8.0
<b>Results</b>						
Acetone (µg/m3)	5.8	6.7	8.6	14	9.5	12
Benzene (µg/m3)	0.91	0.49	0.5	0.83	42	130
Benzyl chloride (µg/m3)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Bromodichloromethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Bromoform (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromomethane (µg/m3)	<0.14	0.19	<0.14	<0.14	<0.14	<0.14
1,3-Butadiene (µg/m3)	<0.08	<0.08	<0.08	<0.08	0.45	1.4
2-Butanone (MEK) (µg/m3)	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Carbon Disulfide (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Carbon Tetrachloride (µg/m3)	0.45	0.45	0.45	0.44	0.44	0.45
Chlorobenzene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Chloroform (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chloromethane (µg/m3)	1	0.93	0.97	0.83	0.83	0.9
Cyclohexane (µg/m3)	<0.12	<0.12	<0.12	<0.12	0.23	0.25
Dibromochloromethane (µg/m3)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane (EDB) (µg/m3)	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,3-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,4-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Dichlorodifluoromethane (Freon 12) (µg/m3)	1.5	1.3	1.3	1.4	1.2	1.5
1,1-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloropropane (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,4-Dioxane (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3

**Table 2-40:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 4 Results (Continued)**

Sample ID	R04_UW	R04_DW2_D1	R04_DW2_D2	R04_DW1	R04_INT1	R04_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6	Dec 6
Start Time (approx.)	14:09	13:39	13:39	13:09	13:34	12:18
Stop Date (2022)	Dec 7	Dec 7	Dec 7	Dec 7	Dec 7	Dec 7
Stop Time (approx.)	13:35	12:48	12:48	12:17	11:53	11:33
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-29.0	-28.0	-28.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-6.0	-7.0	-7.0	-5.0	-8.0	-8.0
<b>Results</b>						
Ethanol (µg/m3)	11	4	5.3	6.1	6.4	9.4
Ethyl Acetate (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.18	0.35
4-Ethyltoluene (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Heptane (µg/m3)	<0.14	0.17	<0.14	<0.14	0.22	0.22
Hexachlorobutadiene (µg/m3)	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Hexane (µg/m3)	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
2-Hexanone (MBK) (µg/m3)	<0.14	<0.14	0.2	0.28	0.18	0.28
Isopropanol (µg/m3)	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride (µg/m3)	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Naphthalene (µg/m3)	0.23	<0.18	<0.18	0.5	40	240
Propene (µg/m3)	<2.4	<2.4	<2.4	<2.4	2.8	8.1
Styrene (µg/m3)	<0.15	<0.15	<0.15	<0.15	1.9	9
1,1,2,2-Tetrachloroethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethylene (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrahydrofuran (µg/m3)	<1	<1	<1	<1	<1	<1
Toluene (µg/m3)	0.57	0.42	0.45	0.56	11	37
1,2,4-Trichlorobenzene (µg/m3)	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,1-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethylene (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichlorofluoromethane (Freon 11) (µg/m3)	1.5	1.4	1.4	1.4	1.4	1.4
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
1,2,4-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	0.67	3.3
1,3,5-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	0.33	1.8
Vinyl Acetate (µg/m3)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl Chloride (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
m&p-Xylene (µg/m3)	<0.3	<0.3	<0.3	<0.3	3.4	15
o-Xylene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.72	3.1

**Table 2-41:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 5 Results**

Sample ID	R05_UW	R05_DW2_D1	R05_DW2_D2	R05_DW1	R05_INT1	R05_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Dec 20	Dec 20	Dec 20	Dec 20	Dec 20	Dec 20
Start Time (approx.)	13:43	12:43	12:43	11:51	10:43	11:13
Stop Date (2022)	Dec 21	Dec 21	Dec 21	Dec 21	Dec 21	Dec 21
Stop Time (approx.)	12:04	11:30	11:30	11:01	10:07	10:37
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-28.0	-29.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	.0	-9.0	-9.0	-8.0	-9.0	-10.0
<b>Results</b>						
Acetone (µg/m3)	6.3	8.1	8.5	8.7	9.9	14
Benzene (µg/m3)	0.61	0.39	0.4	0.46	51	100
Benzyl chloride (µg/m3)	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Bromodichloromethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Bromoform (µg/m3)	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromomethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	0.14	<0.14
1,3-Butadiene (µg/m3)	<0.08	<0.08	0.08	<0.08	0.54	1.1
2-Butanone (MEK) (µg/m3)	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
Carbon Disulfide (µg/m3)	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Carbon Tetrachloride (µg/m3)	0.37	0.35	0.35	<0.22	0.35	0.37
Chlorobenzene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Chloroethane (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Chloroform (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chloromethane (µg/m3)	1.1	1.1	1.1	1.1	1.1	1.1
Cyclohexane (µg/m3)	<0.12	<0.12	<0.12	<0.12	0.12	0.15
Dibromochloromethane (µg/m3)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dibromoethane (EDB) (µg/m3)	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,3-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
1,4-Dichlorobenzene (µg/m3)	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Dichlorodifluoromethane (Freon 12) (µg/m3)	1.7	1.3	1.2	1.3	1.3	1.2
1,1-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloroethane (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,1-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
cis-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethylene (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dichloropropane (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
cis-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
trans-1,3-Dichloropropene (µg/m3)	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,4-Dioxane (µg/m3)	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3

**Table 2-41:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 5 Results (Continued)**

Sample ID	R05_UW	R05_DW2_D1	R05_DW2_D2	R05_DW1	R05_INT1	R05_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2022)	Dec 20	Dec 20	Dec 20	Dec 20	Dec 20	Dec 20
Start Time (approx.)	13:43	12:43	12:43	11:51	10:43	11:13
Stop Date (2022)	Dec 21	Dec 21	Dec 21	Dec 21	Dec 21	Dec 21
Stop Time (approx.)	12:04	11:30	11:30	11:01	10:07	10:37
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-28.0	-29.0	-29.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	.0	-9.0	-9.0	-8.0	-9.0	-10.0
<b>Results</b>						
Ethanol (µg/m3)	5.7	7.4	10	7.4	6.7	9.7
Ethyl Acetate (µg/m3)	<1.3	2.3	<1.3	<1.3	<1.3	<1.3
Ethylbenzene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.23	0.42
4-Ethyltoluene (µg/m3)	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Heptane (µg/m3)	0.18	0.2	0.17	0.22	0.24	0.27
Hexachlorobutadiene (µg/m3)	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Hexane (µg/m3)	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
2-Hexanone (MBK) (µg/m3)	<0.14	0.22	0.21	0.18	0.22	0.61
Isopropanol (µg/m3)	<3.4	3.9	<3.4	<3.4	<3.4	<3.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Methylene Chloride (µg/m3)	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	0.15
Naphthalene (µg/m3)	0.21	0.44	0.22	1.9	27	200
Propene (µg/m3)	<2.4	<2.4	<2.4	<2.4	2.7	4.6
Styrene (µg/m3)	<0.15	<0.15	<0.15	<0.15	2.1	8.3
1,1,2,2-Tetrachloroethane (µg/m3)	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Tetrachloroethylene (µg/m3)	<0.24	<0.24	<0.24	<0.24	0.38	<0.24
Tetrahydrofuran (µg/m3)	<1	<1	<1	<1	<1	<1
Toluene (µg/m3)	0.57	0.51	0.48	0.55	13	30
1,2,4-Trichlorobenzene (µg/m3)	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,1,1-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,2-Trichloroethane (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethylene (µg/m3)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichlorofluoromethane (Freon 11) (µg/m3)	1.5	1.4	1.4	1.4	1.6	1.4
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<1.1	<1.1	<1.1	<1.1	1.2	<1.1
1,2,4-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	0.72	3
1,3,5-Trimethylbenzene (µg/m3)	<0.17	<0.17	<0.17	<0.17	0.48	2.1
Vinyl Acetate (µg/m3)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl Chloride (µg/m3)	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
m&p-Xylene (µg/m3)	<0.3	<0.3	<0.3	<0.3	4.3	13
o-Xylene (µg/m3)	<0.15	<0.15	<0.15	<0.15	0.96	3

**Table 2-42:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 6 Results**

Sample ID	R06_UW	R06_DW2_D1	R06_DW2_D2	R06_DW1	R06_INT1	R06_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2023)	Jan 4	Jan 4	Jan 4	Jan 4	Jan 4	Jan 4
Start Time (approx.)	13:03	12:32	12:32	12:02	11:11	11:36
Stop Date (2023)	Jan 5	Jan 5	Jan 5	Jan 5	Jan 5	Jan 5
Stop Time (approx.)	11:54	11:20	11:20	10:50	10:05	10:28
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-29.0	-30.0	-28.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-8.0	-4.0	-4.0	-9.0	-9.0	-10.0
<b>Results</b>						
Acetone (µg/m3)	2.1	1.8	2	1.9	1.7	2.6
Benzene (µg/m3)	0.13	0.39	0.41	0.36	190	1.3
Benzyl chloride (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromodichloromethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromoform (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromomethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,3-Butadiene (µg/m3)	<0.04	0.04	0.04	<0.04	2.4	<0.04
2-Butanone (MEK) (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Carbon Disulfide (µg/m3)	<0.35	<0.35	<0.35	<0.35	1	<0.35
Carbon Tetrachloride (µg/m3)	0.07	0.07	0.07	0.07	0.07	0.07
Chlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chloroform (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	0.04
Chloromethane (µg/m3)	0.39	0.41	0.4	0.44	0.44	0.43
Cyclohexane (µg/m3)	<0.04	<0.04	0.06	0.04	0.17	0.16
Dibromochloromethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dibromoethane (EDB) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,3-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Dichlorodifluoromethane (Freon 12) (µg/m3)	0.28	0.31	0.29	0.26	0.26	0.27
1,1-Dichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
cis-1,2-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
trans-1,2-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloropropane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
cis-1,3-Dichloropropene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
trans-1,3-Dichloropropene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dioxane (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35

**Table 2-42:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 6 Results (Continued)**

Sample ID	R06_UW	R06_DW2_D1	R06_DW2_D2	R06_DW1	R06_INT1	R06_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2023)	Jan 4	Jan 4	Jan 4	Jan 4	Jan 4	Jan 4
Start Time (approx.)	13:03	12:32	12:32	12:02	11:11	11:36
Stop Date (2023)	Jan 5	Jan 5	Jan 5	Jan 5	Jan 5	Jan 5
Stop Time (approx.)	11:54	11:20	11:20	10:50	10:05	10:28
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-29.0	-28.0	-28.0	-29.0	-30.0	-28.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-8.0	-4.0	-4.0	-9.0	-9.0	-10.0
<b>Results</b>						
Ethanol (µg/m3)	1.4	2.2	11	2.1	1.8	5.3
Ethyl Acetate (µg/m3)	<0.35	0.44	<0.35	5.4	<0.35	33
Ethylbenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.26	0.04
4-Ethyltoluene (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.06	<0.04
Heptane (µg/m3)	<0.04	<0.04	<0.04	<0.09	0.11	0.13
Hexachlorobutadiene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Hexane (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
2-Hexanone (MBK) (µg/m3)	0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Isopropanol (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Methylene Chloride (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	0.39
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	0.04
Naphthalene (µg/m3)	<0.04	0.11	0.1	0.2	<0.04	1.7
Propene (µg/m3)	<1.4	<1.4	<1.4	<1.4	18	<1.4
Styrene (µg/m3)	<0.04	<0.04	<0.04	<0.04	6	0.06
1,1,2,2-Tetrachloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene (µg/m3)	<0.04	0.06	0.05	0.05	<0.04	0.2
Tetrahydrofuran (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Toluene (µg/m3)	0.06	0.12	0.12	0.27	29	0.9
1,2,4-Trichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1,1-Trichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1,2-Trichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Trichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	0.09
Trichlorofluoromethane (Freon 11) (µg/m3)	0.19	0.2	0.19	0.19	0.19	0.18
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2,4-Trimethylbenzene (µg/m3)	<0.04	<0.04	<0.04	0.05	1.6	0.07
1,3,5-Trimethylbenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	1.2	<0.04
Vinyl Acetate (µg/m3)	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
Vinyl Chloride (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
m&p-Xylene (µg/m3)	<0.07	<0.07	<0.07	0.08	9.8	0.17
o-Xylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	2.2	0.07

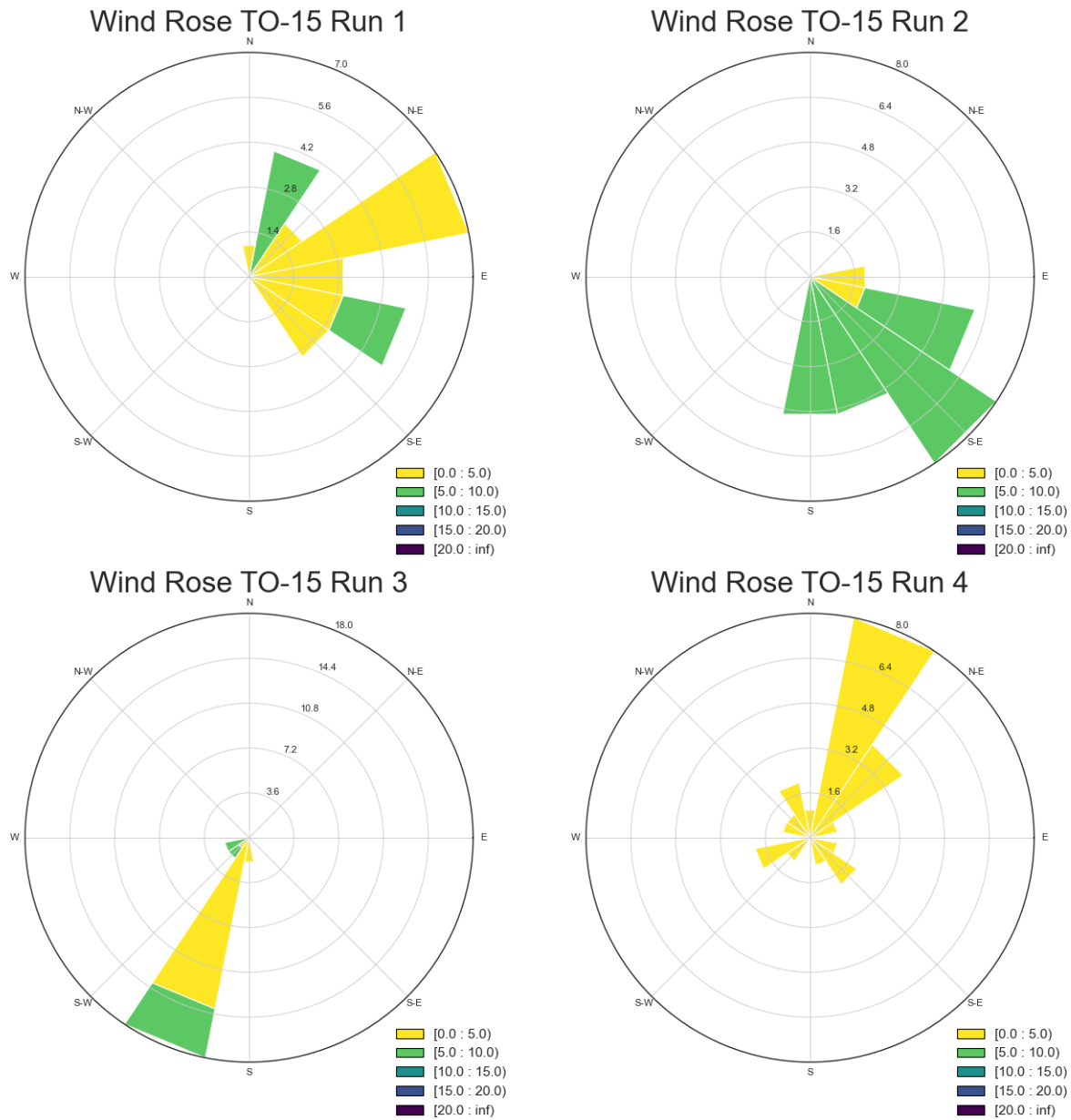
**Table 2-43:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 7 Results**

Sample ID	R07_UW	R07_DW2_D1	R07_DW2_D2	R07_DW1	R07_INT1	R07_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2023)	Jan 23	Jan 23	Jan 23	Jan 23	Jan 23	Jan 23
Start Time (approx.)	13:17	12:47	12:47	12:15	11:24	11:52
Stop Date (2023)	Jan 24	Jan 24	Jan 24	Jan 24	Jan 24	Jan 24
Stop Time (approx.)	12:00	11:26	11:26	10:51	10:05	10:24
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-30.0	-30.0	-30.0	-29.0	-30.0	-30.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-5.0	-5.0	-5.0	-5.0	-3.0	-2.0
<b>Results</b>						
Acetone (µg/m3)	<1.4	<1.4	<1.4	2.3	2.1	1.5
Benzene (µg/m3)	0.1	0.28	0.28	1.5	110	0.91
Benzyl chloride (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromodichloromethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromoform (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bromomethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,3-Butadiene (µg/m3)	<0.04	<0.04	<0.04	<0.04	2.1	<0.04
2-Butanone (MEK) (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Carbon Disulfide (µg/m3)	<0.35	<0.35	<0.35	<0.35	0.83	<0.35
Carbon Tetrachloride (µg/m3)	0.07	0.08	0.08	0.07	0.07	0.07
Chlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chloroform (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chloromethane (µg/m3)	0.37	0.36	0.39	0.37	0.37	0.33
Cyclohexane (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.1	0.32
Dibromochloromethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dibromoethane (EDB) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,3-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Dichlorodifluoromethane (Freon 12) (µg/m3)	0.3	0.3	0.29	0.28	0.31	0.3
1,1-Dichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
cis-1,2-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
trans-1,2-Dichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloropropane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
cis-1,3-Dichloropropene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
trans-1,3-Dichloropropene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,4-Dioxane (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35

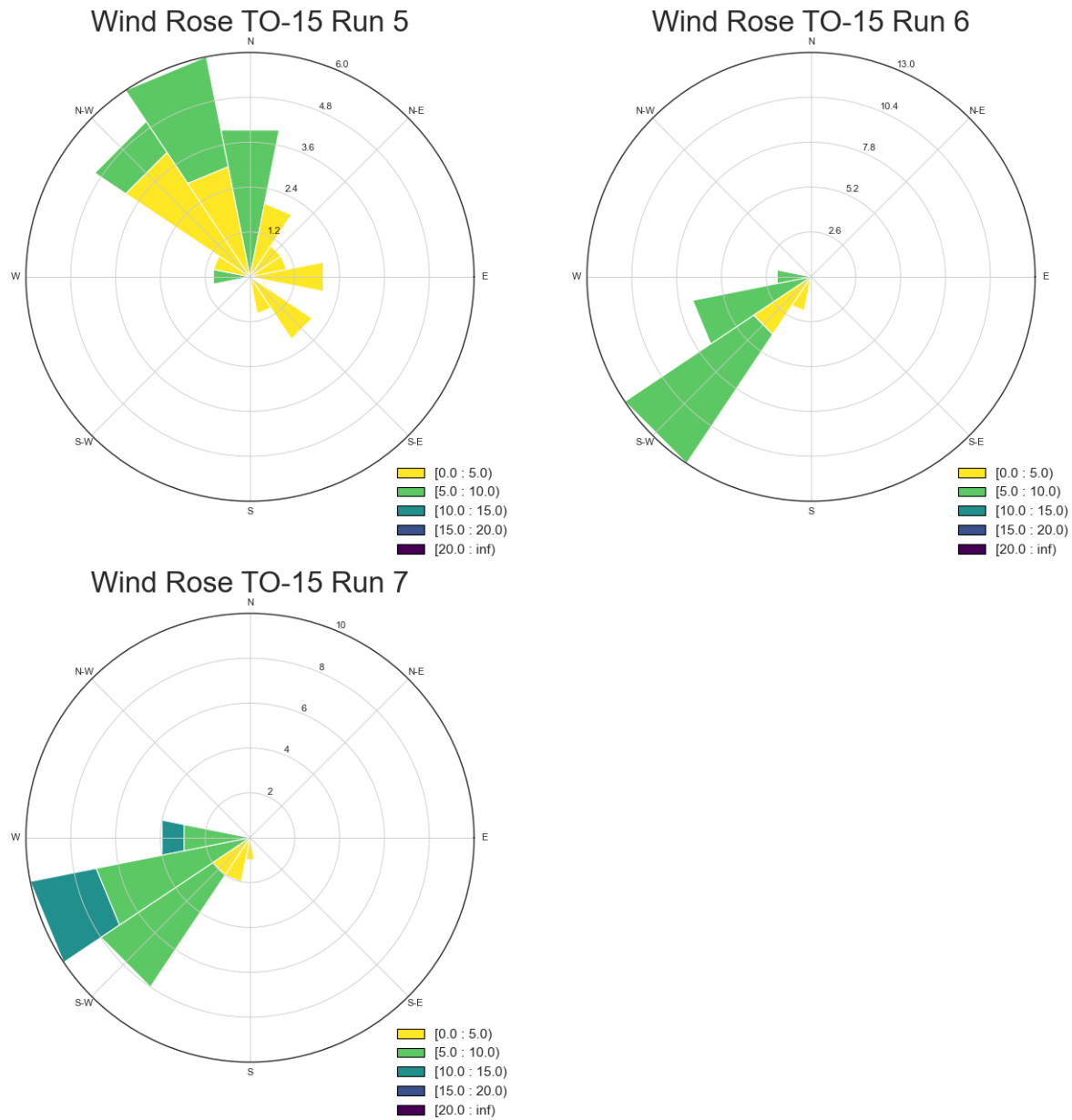
**Table 2-43:**  
**Fenceline and Interior Stations – TO-15 (VOC) – Run 7 Results (Continued)**

Sample ID	R07_UW	R07_DW2_D1	R07_DW2_D2	R07_DW1	R07_INT1	R07_INT2
Sampling Location	UW	DW2	DW2	DW1	INT1	INT2
Start Date (2023)	Jan 23	Jan 23	Jan 23	Jan 23	Jan 23	Jan 23
Start Time (approx.)	13:17	12:47	12:47	12:15	11:24	11:52
Stop Date (2023)	Jan 24	Jan 24	Jan 24	Jan 24	Jan 24	Jan 24
Stop Time (approx.)	12:00	11:26	11:26	10:51	10:05	10:24
<b>Sampling Parameters</b>						
VAC <sub>IN</sub> Initial Vacuum (in Hg)	-30.0	-30.0	-30.0	-29.0	-30.0	-30.0
VAC <sub>FIN</sub> Final Vacuum (in Hg)	-5.0	-5.0	-5.0	-5.0	-3.0	-2.0
<b>Results</b>						
Ethanol (µg/m3)	<1.4	1.6	1.8	<1.4	<1.4	<1.4
Ethyl Acetate (µg/m3)	<0.35	<0.35	0.51	<0.35	<0.35	<0.35
Ethylbenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.13	<0.04
4-Ethyltoluene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Heptane (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.05	0.09
Hexachlorobutadiene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Hexane (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
2-Hexanone (MBK) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Isopropanol (µg/m3)	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Methyl tert-Butyl Ether (MTBE) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Methylene Chloride (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
4-Methyl-2-pentanone (MIBK) (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Naphthalene (µg/m3)	0.76	0.04	0.04	0.36	35	0.76
Propene (µg/m3)	<1.4	<1.4	<1.4	<1.4	17	<1.4
Styrene (µg/m3)	<0.04	<0.04	<0.04	<0.04	3.1	<0.04
1,1,2,2-Tetrachloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene (µg/m3)	<0.04	<0.04	<0.04	0.04	<0.04	<0.04
Tetrahydrofuran (µg/m3)	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Toluene (µg/m3)	0.04	0.08	0.08	0.35	21	0.23
1,2,4-Trichlorobenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1,1-Trichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1,2-Trichloroethane (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Trichloroethylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Trichlorofluoromethane (Freon 11) (µg/m3)	0.27	0.28	0.27	0.27	0.27	0.27
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) (µg/m3)	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2,4-Trimethylbenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	1.1	0.05
1,3,5-Trimethylbenzene (µg/m3)	<0.04	<0.04	<0.04	<0.04	0.62	<0.04
Vinyl Acetate (µg/m3)	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
Vinyl Chloride (µg/m3)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
m&p-Xylene (µg/m3)	<0.07	<0.07	<0.07	0.08	6.5	0.12
o-Xylene (µg/m3)	<0.04	<0.04	<0.04	<0.04	1.4	0.05

**Figure 2-30:**  
**Meteorological Wind Rose Charts – TO-15 24-Hour Monitoring Period (Runs 1 – 4)**



**Figure 2-31:**  
**Meteorological Wind Rose Charts – TO-15 24-Hour Monitoring Period (Run 5 - 7)**



*End of Section*

### 3. *DESCRIPTION OF MONITORING SITES*

#### SITE OVERVIEW

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Descriptions and pictures of select monitoring sites (sampler locations and fenceline and interior stations) are included in the EPA approved QAPP.

BTEX fenceline monitoring sites were determined based on siting criteria included in the following references.

- 40 CFR Part 63, Appendix A: Method 325A Volatile Organic Compounds from Fugitive and Area Sources

In addition to EPA Method 325A, interior monitoring sites for TO-13A and TO-15 were chosen based on general ambient monitoring siting guidance, available test sites and proximity to the Coke Battery and Coke Byproducts Recovery Plant (CBRP) areas. These locations were designated as Interior Station 1 (INT1) and Interior Station 2 (INT2) for the CBRP and Coke Battery areas, respectively.

In addition to the interior process area monitoring, to qualify and quantify fenceline data, an upwind monitoring site (Upwind – UPW) and two downwind (Downwind Station 1 (DW1) and Downwind Station 2 (DW2)) locations were chosen.

An example of the TO-13A and TO-15 equipment set up at the Upwind Station is shown in Figure 3-1. An example of the EPA Method 325A passive BTEX sampling equipment is shown in Figure 3-2.

**Figure 3-1:**  
**Cleveland-Cliffs Burns Harbor Facility – TO-13A and TO-15 Colocated Sampling Location – Upwind Station (Example)**

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**Figure 3-2:**  
**Cleveland-Cliffs Burns Harbor Facility– EPA Method 325B (BTEX)**

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*End of Section*

## 4. METHODOLOGY

### PROCEDURES AND REGULATORY REFERENCES

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The test program monitoring measurements followed sampling and analysis procedures outlined by the USEPA in the ICR Enclosure 2 and approved in the QAPP: CleanAir also followed procedures and best practices outlined in CleanAir’s Ambient Air Monitoring Program.

#### TITLE 40 CFR PART 63, APPENDIX A

Method 325A “Volatile Organic Compounds from Fugitive and Area Sources: Sampler Deployment and VOC Sample Collection”

Method 325B Volatile Organic Compounds from Fugitive and Area Sources: Sampler Preparation and Analysis”

#### COMPENDIUM OF METHODS FOR THE DETERMINATION OF TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR, SECOND EDITION

TO-13A “Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in Ambient Air Using Gas Chromatography/Mass Spectrometry (GC/MS)”

TO-15 “Determination of Volatile Organic Compounds (VOCs) in Ambient Air Using Gas Chromatography/Mass Spectrometry (GC/MS)”

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*End of Section*