

**SDG NARRATIVE****LAB NAME: Alliance Technical Group, LLC****CASE: 51933****SDG: E2AT7****CONTRACT: 68HERH20D0011****LAB CODE: ACE****LAB ORDER ID: P5311****MODIFICATION REF. NUMBER: NA**

Sample ID	EPA Sample ID	pH
P5305-01	E2AT3	
P5305-02	E2AT7	
P5305-04	E2AT8	
P5305-05	E2AT9	
P5305-06	E2AW2	
P5305-08	E2AX4	
P5305-09MS	E2AX4MS	
P5305-10MSD	E2AX4MSD	

02 Water samples were delivered to the laboratory intact on 12/17/2024.

06 Water samples were delivered to the laboratory intact on 12/18/2024.

Test requested on the Chain of Custody was Semivolatile Organic SIM by Method SFAM01.1.

The temperature of the samples was measured using an I R Gun. The samples temperature was 1.9, 1.9, 1.6 degree Celsius for the samples received on 12/17/2024, 1.8, 1.4, 1.7, 2.0, 1.5 degree Celsius for the samples received on 12/18/2024.

Semivolatiles SIM:

The samples were analyzed on instrument BNA_M using GC Column ZB-GR Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA.

Semis volatile Organic samples for Water were extracted by Method SFAM01.1 on 12/18/2024. The analysis of SVOCMS Group3 was based on method SFAM01.1_SIM.

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {E2AX4MS} recovery met the requirements for all compounds.

The MSD {E2AX4MSD} recovery met the requirements for all compounds.
 The RPD {E2AX4MSD} RPD met the requirements for all compounds
 The Blank Spike for {PB165769BS} recoveries met the requirements for all compounds.
 The Blank Spike for {PB165772BS} recoveries met the requirements for all compounds.
 The Blank analysis did not indicate the presence of lab contamination.
 The Tuning criteria met requirements.
 The Initial Calibration met the requirements.
 The Continues Calibration met the requirements.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Concentration of Water Sample:

$$\text{Concentration ug/L} = \frac{(A_x) (I_s) (V_t) (DF) (GPC)}{(A_{is}) (RRF) (V_o) (V_i)}$$

Where,

A_x = Area of the characteristic ion for the compound to be measured.
 A_{is} = Area of the characteristic ion for the internal standard.
 I_s = Amount of internal standard injected in ng.
 V_o = Volume of water extracted in mL.
 V_i = Volume of extract injected in uL.
 V_t = Volume of the concentrated extract in uL
 RRF = Mean Relative Response Factor determined from the initial calibration standard.
 $GPC = \frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

No positive target compounds were detected in the samples.

RRF Calculation of standard 0.4 ppb **1,4-Dioxane** with instrument M for method 12/18/2024.

$$\begin{aligned}
 \text{RRF} &= \text{Area of compound} / \quad X \quad \text{Conc. of Internal Standard} / \\
 &\quad \text{Area of Internal Standard Conc. of Compound} \\
 &= 3185/4849 X 0.4/0.4 \\
 &= 0.657 \text{ (Reported RRF)}
 \end{aligned}$$



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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ Name: Nimisha Pandya.

Date: _____ Title: Document Control Officer.