



## SDG NARRATIVE

**LAB NAME:** Alliance Technical Group, LLC

**CASE:** 51900

**SDG:** E29C3

**CONTRACT:** 68HERH20D0011

**LAB CODE:** ACE

**CHEMTECH PROJECT:** Q1335

**MODIFICATION REF. NUMBER:** NA

Sample ID	EPA Sample ID	pH
Q1335-01	E29C3	1.0
Q1335-02	E29C4	1.0
Q1335-03	E29C5	1.0
Q1335-04	E29C6	1.0
Q1335-05	E29C8	1.0
Q1335-06	E29C9	1.0
Q1335-07	E29D0	1.0
Q1335-08	E29D2	1.0
Q1335-09	E29D4	1.0

09 Water sample was delivered to the laboratory intact on 02/07/2025.

Test requested on the Chain of Custody was Trace Volatile Organic by Method SFAM01.1.



The temperature of the samples was measured using an I R Gun. The samples temperature was 2.5 degree Celsius for the samples received on 02/07/2025

**Shipping Discrepancies and/or QC issues:**

**Issue:** Laboratory QC is scheduled for SDGs E29A0, E29C3, E29C5 and E29C6 for water samples, but no samples were designated on the COC and no extra volume was received. The laboratory would like to proceed without Laboratory QC.

**Resolution:** Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed without Laboratory QC for SDGs E29A0, E29C3, E29C5 and E29C6.

**Trace Volatiles:**

The analysis performed on instrument MSVOA\_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI.

The analysis of VOC-SFAM was based on method SFAM01.1\_Trace.  
Holding Times were met requirement.

The Surrogate recoveries met the acceptable criteria except for,  
E29C3 [Toluene-d8 - 66%],  
E29C4 [2-Hexanone-d5 - 134%],  
As per method, up to three surrogates are allowed to fail. No corrective action was taken.

The Internal Standards Areas met the acceptable requirements.  
Instrument Performance Check met requirements.  
The Retention Times met requirements.  
The Tuning criteria met requirements.

The initial Calibration criteria met requirements.

The Continuing Calibration (VSTD005342) file ID VV038662.D met the requirements except for 1,1-Dichloroethene-d2 (-25.4%). Under this Continuous Calibration only diluted samples were analyzed. The failure compounds are not required for the dilution, therefore no corrective action was required.

The Blank analysis did not indicate the presence of lab contamination.  
The storage blank did not indicate the presence of lab contamination.

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

**Calculation:**

### Low/Med Water Level Calculation

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

Where,

A<sub>x</sub> = Area of the characteristic ion (EICP) for the compound to be measured.

A<sub>is</sub> = Area of the characteristic ion (EICP) for the internal standard.

Amount of internal standard added in ng.

RRF = Mean Relative Response Factor from the initial calibration standard.

V<sub>o</sub> = Total volume of water purged, in mL.

DF = Dilution Factor

Example calculation of **E29D4** for **Acetone**:

$$A_x = 27158$$

$$I_s = 125$$

$$RRF = 0.066$$

$$DF = 1$$

$$A_{is} = 198083$$

$$V_o = 25$$

$$\text{Concentration in ug/L} = \frac{(27158) (125) (1)}{(198083) (0.066) (25)}$$

$$\text{Reported Result} = 10.39 \text{ ug/L}$$

$$\text{Final Reported Result} = 10 \text{ ug/L}$$

Relative Response Factor = **Dichlorodifluoromethane**: RUN **VV020625** for **0.5** ppb

$$RRF = \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}}$$

$$RRF = \frac{10921}{160799} \times \frac{5.0}{0.5}$$

$$RRF = 0.679$$



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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.