

CASE NARRATIVE

G Environmental

Project Name: Lexington

Project # N/A

Order ID # Q2480

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

8 Solid samples were received on 07/01/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: EPH_NF, VOC-PP, VOC-PP VOA + 15 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for GPX2 [4-Bromofluorobenzene - 226%, Toluene-d8 - 163%], GPX6 [4-Bromofluorobenzene - 286%, Toluene-d8 - 219%], GPX7 [4-Bromofluorobenzene - 201% and Toluene-d8 - 209%] Due to high concentration of compounds, these samples required dilution. Therefore, samples were reanalyzed with dilution and reported, while for GPX3RE [Toluene-d8 - 72%] sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements except for GPX3RE, sample was reanalyzed to confirm the failure and reported.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike for {VW0709SBS01} with File ID: VW031769.D met requirements for all samples except for cis-1,2-Dichloroethene[124%], Methylene Chloride[176%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for { VX0710MBS01 } with File ID: VX046953.D met requirements for all samples except for Bromomethane[55%] failing biased low but associate CCAL passing for failing analyte and also sample having no positive hit for Bromomethane therefore no corrective action taken.

The Blank Spike for { VX0714MBS01 } with File ID: VX046964.D met requirements for all samples except for 2-Butanone[135%], 2-Hexanone[141%] and 4-Methyl-2-Pentanone[136%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for { VY0707SBS01 } with File ID: VY022948.D met requirements for all samples except for Methylene Chloride[142%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for { VY0708SBS01 } with File ID: VY022970.D met requirements for all samples except for Methylene Chloride[149%] is failing high and associate sample having positive hit of Methylene Chloride therefore as corrective action lab reanalyzed and reported both run.

The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82W063025S.M) for Methylene Chloride passing on Quadratic Regression.

The Continuous Calibration File ID VX046933.D met the requirements except for 2-Hexanone and Methyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX046961.D met the requirements except for 1,2-Dibromo-3-Chloropropane, 2-Butanone, 2-Hexanone, 4-Methyl-2-Pentanone, Methyl Acetate and Methyl tert-butyl Ether are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples GPX5, GPX8 were directly analyzed in methanol as samples had strong gasoline odor and not allowing low level soil run.

Samples GPX2, GPX4, GPX6 and GPX7 were diluted due to high concentrations.

E. Additional Comments:

The Sample #GPX1, GPX5, GPX6ME , GPX7ME, GPX8 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____