

CASE NARRATIVE

CHA Companies, Inc.

Project Name: OMH Tank Pull-011 - 078673-01 C-03

Project # N/A

Chemtech Project # P4960

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 11/22/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

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, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator. The analysis of VOCMS Group1 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 SW4 [1,2-Dichloroethane-d4 - 47%], This sample initially analyzed with VIAL A but sample did not purge therefore as corrective action lab reanalyzed the sample with VIAL B where surrogate fail but now no more vial left for confirmation therefore lab reported VIAL B as final.

The Internal Standards Areas met the acceptable requirements except for SW2, SW4, These sample were initially analyzed with VIAL A but samples did not purge therefore as corrective action lab reanalyzed the samples with VIAL B where surrogate fail but now no more vial left for confirmation therefore lab reported VIAL B as final.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike for {VY1125SBS02} with File ID: VY020431.D met requirements for all samples except for 1,3,5-Trimethylbenzene[125%], m/p-Xylenes[126%], o-Xylene[125%] and Toluene[124%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VY1125SBSD02} with File ID: VY020441.D met requirements for all samples except for Benzene[130%], Ethyl Benzene[126%], m/p-Xylenes[131%], o-Xylene[128%] and Toluene[131%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 20% in the Initial Calibration method (82X1121W.M) for Bromoform this compound is passing on Quadratic Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:

Sample SW3 was directly run in methanol as both low level soil vials did not purge.

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_____