



284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Order ID # Q3788

Test Name: VOCMS Group3,VOC-SIM,SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

14 Water samples were received on 12/05/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3,VOC-SIM,SVOC-SIMGroup1. This data package contains results for VOCMS Group3(8260-Low),VOC-SIM(SFAM_VOCSIM),SVOC-SIMGroup1(8270-Modified).

C. Analytical Techniques:

VOCMS Group3 : 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 of VOCMS Group3 was based on method 8260-Low.

VOC-SIM : 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-SIM was based on method SFAM_VOCSIM.

SVOC-SIMGroup1 : The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except following

VOCMS Group3 : BR-05-465-120525 [1,2-Dichloroethane-d4 - 128%, Dibromofluoromethane - 74%], BR-05-465-120525RE [4-Bromofluorobenzene - 123%, Dibromofluoromethane - 71%], MW-16B-87.5-120525 [Toluene-d8 - 71%] and MW-16B-87.5-120525RE [4-Bromofluorobenzene - 122%] these compounds did not meet the in-house criteria but met the NJDKQP criteria, samples were reanalyzed to confirm the failure and reported.



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VOC-SIM : OWBR-05-135-120525-SIM [1,2-Dichloroethane-d4 - 157%], OWBR-05-135-120525-SIMMS [1,2-Dichloroethane-d4 - 162%], OWBR-05-135-120525-SIMMSD [1,2-Dichloroethane-d4 - 163%] surrogate is failing but confirm with MS-MSD therefore no corrective action taken while BR-05-465-120525-SIM [1,1,2,2-Tetrachloroethane-d2 - 0%] and BR-05-465-120525-SIMRE [1,1,2,2-Tetrachloroethane-d2 - 1%] sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas were met for all analysis except following VOC-SIM : MW-16B-87.5-120525-SIM as sample has bad chromatogram and high tic analytes, lab has not taken corrective action as ion may interfere with target analytes.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following SVOC-SIMGroup1 : The MS {Q3788-02MS} with File ID: BN038335.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-805%], is negative as the parent Sample- OWBR-05-135-120525 has a considerable concentration of this compound, run dilution and both run were reported in Hard Copy.

The MSD recoveries met the requirements for all compounds except following VOCMS Group3 : The MSD {Q3788-03MSD} with File ID: VX048776.D recoveries met the requirements for all compounds except for 1,1-Dichloroethene[60%] this compound did not meet the NJDKQP criteria and in-house criteria.

SVOC-SIMGroup1 : The MSD {Q3788-03MSD} with File ID: BN038336.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-1500%], is negative as the parent Sample- OWBR-05-135-120525 has a considerable concentration of this compound, run dilution and both run were reported in Hard Copy.

The RPD were met for all analysis except following VOCMS Group3 :

The RPD for {Q3788-03MSD} with File ID: VX048776.D met criteria except for 1,1-Dichloroethene[29%] this compound did not meet the NJDKQP criteria and in-house criteria, due to difference in results of MS and MSD.

SVOC-SIMGroup1 : The RPD for {Q3788-03MSD} with File ID: BN038336.D met criteria except for 1,4-Dioxane[60%], due to difference in results of MS and MSD.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.



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SVOC-SIMGroup1 : Sample OWBR-05-135-120525 was diluted due to high concentration.

E. Additional Comments:

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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_____