

**ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092**

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

**GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY**

ORDER ID: Q1914

MATRIX: /Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements.  The Continuous Calibration File ID VX045985.D met the requirements except for n- Butylbenzene is failing high but no positive hit in associated sample therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria  If not met, list those compounds and their recoveries which fall outside the acceptable ranges.  The Surrogate recoveries met the acceptable criteria except for SS-8 [4- Bromofluorobenzene - 447%, Toluene-d8 - 208%], SS-8MS [4-Bromofluorobenzene - 518%, Toluene-d8 - 225%], SS-8MSD [4-Bromofluorobenzene - 336% and Toluene-d8 - 154%],MS and MSD surrogate failure confirm with parent sample.		✓	

**GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)**

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS {Q1914-10MS} with File ID: VY022115.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene[732%], 1,3,5-Trimethylbenzene[707%], Ethyl Benzene[1566%], Isopropylbenzene[202%], n-Butylbenzene[202%], N-propylbenzene[379%], Sec-butylbenzene[227%], m/p-Xylenes [2399%], o-Xylene [4040%] and Toluene[455%], due to bad Sample matrix interference.			
The MSD {Q1914-11MSD} with File ID: VY022116.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[343%], 1,3,5-Trimethylbenzene[314%], Ethyl Benzene[914%], Isopropylbenzene[-257%], n-Butylbenzene[0%], N-propylbenzene[0%], p-Isopropyltoluene[0%], Sec-butylbenzene[-57%], m/p-Xylenes [1857%], o-Xylene [2857%] and Toluene[-571%], due to bad sample matrix interference.			
The RPD for {Q1914-11MSD} with File ID: VY022116.D met criteria except for 1,2,4-Trimethylbenzene[72%], 1,3,5-Trimethylbenzene[77%], Benzene[24%], Ethyl Benzene[53%], Isopropylbenzene[1669%], Sec-butylbenzene[334%], tert-Butylbenzene[34%], m/p-Xylenes[25%], o-Xylene[34%], N-propylbenzene [200%], p-Isopropyltoluene [200%], n-Butylbenzene [200%] and Toluene[1769%], due to difference in results of MS and MSD.			
The Blank Spike met requirements for all samples .			
The Blank Spike Duplicate met requirements for all samples .			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments: The Internal Standards Areas met the acceptable requirements except for SS-6, SS-8, Due to high concentration of compounds, these samples required dilution. Therefore, samples were reanalyzed with dilution and reported.			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

**ADDITIONAL COMMENTS:**

This Data package has been revised due to data package type changed as per client request.

The Sample #SS-6MEDL, SS-7DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples SS-5, SS-6, SS-6ME, SS-7, SS-8 and SS-8ME were diluted due to high concentrations.

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**GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)**

NA NO YES

Sample SS-7 analyzed at straight medium level as sample was bad and highly contaminated and required further Dilution analysis therefore as a precautionary measure no low level analysis performed for the sample.

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.

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QA REVIEW

\_\_\_\_\_  
Date