

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV121918\  
 Data File : VV009068.D  
 Acq On : 20 Dec 2018 00:22  
 Operator : SY/MD  
 Sample : J6471-13  
 Misc : 5.52G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9H00

Manual Integrations  
 APPROVED

MMDadoda  
 12/20/2018 1:25:48 PM

Quant Time: Dec 20 04:10:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 20 03:44:50 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 221983   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 178494   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67470    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 51562    | 22.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.80%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 61365    | 36.16    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 144.64%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 101042   | 17.59    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 70.36%   |
| 20) 2-Butanone-d5              | 3.94   | 46    | 21631m   | 25.86    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 51.72%   |
| 24) Chloroform-d               | 4.40   | 84    | 142531   | 26.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.84%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 81574    | 28.01    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 112.04%  |
| 29) Benzene-d6                 | 5.10   | 84    | 277129   | 27.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 111.20%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 85721    | 30.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 122.84%# |
| 37) Toluene-d8                 | 7.36   | 98    | 239907   | 26.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 104.00%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 26781    | 21.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 87.36%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 12174    | 23.81    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 47.62%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 61343    | 26.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.80%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 61229    | 24.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.72%   |

| Target Compounds       |      |    |      |            | Qvalue |
|------------------------|------|----|------|------------|--------|
| 16) Methylene chloride | 2.54 | 84 | 8193 | 2.192 ug/L | 91     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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