

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV121918\  
 Data File : VV009052.D  
 Acq On : 19 Dec 2018 15:53  
 Operator : SY/MD  
 Sample : J6441-02  
 Misc : 5.61G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE7Z9

Manual Integrations  
 APPROVED

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

Quant Time: Dec 20 03:04:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 20 01:58:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 221695   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 174577   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 58403    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 52047    | 22.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.76%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 61978    | 36.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 146.28%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 140433   | 24.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 97.92%   |
| 20) 2-Butanone-d5              | 3.93   | 46    | 35138    | 42.07    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 84.14%   |
| 24) Chloroform-d               | 4.40   | 84    | 34559    | 6.48     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 25.92%#  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 85118    | 29.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 117.08%  |
| 29) Benzene-d6                 | 5.10   | 84    | 286529   | 29.39    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 117.56%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 88798    | 32.53    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 130.12%# |
| 37) Toluene-d8                 | 7.36   | 98    | 239307   | 26.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.08%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 21327    | 17.78    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 71.12%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 21050    | 42.09    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 84.18%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.29  | 84    | 11755m   | 5.13     | ug/L | 0.03     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 20.52%#  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 57031    | 26.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 104.08%  |

## Target Compounds

|                         |       |     |         |              | Qvalue |
|-------------------------|-------|-----|---------|--------------|--------|
| 13) Acetone             | 2.19  | 43  | 40508   | 32.917 ug/L  | 97     |
| 14) Carbon disulfide    | 2.32  | 76  | 49276   | 5.370 ug/L   | 98     |
| 16) Methylene chloride  | 2.53  | 84  | 19421   | 5.202 ug/L   | 98     |
| 21) 2-Butanone          | 4.03  | 43  | 3837    | 3.327 ug/L   | 82     |
| 25) Chloroform          | 4.43  | 83  | 113531  | 21.132 ug/L  | 99     |
| 30) Cyclohexane         | 4.72  | 56  | 27708   | 6.303 ug/L   | 99     |
| 34) Benzene             | 5.15  | 78  | 1094472 | 104.640 ug/L | 100    |
| 35) Trichloroethene     | 5.96  | 95  | 5296    | 1.680 ug/L # | 82     |
| 36) Methylcyclohexane   | 6.18  | 83  | 2776    | 0.552 ug/L   | 94     |
| 44) Toluene             | 7.43  | 91  | 16486   | 1.503 ug/L   | 98     |
| 47) Tetrachloroethene   | 8.02  | 164 | 1249    | 0.487 ug/L   | 88     |
| 52) Chlorobenzene       | 8.93  | 112 | 15327   | 2.146 ug/L   | 96     |
| 53) Ethylbenzene        | 9.06  | 91  | 97160   | 8.165 ug/L   | 99     |
| 54) m,p-Xylene          | 9.18  | 106 | 19752   | 4.384 ug/L   | 99     |
| 55) o-xylene            | 9.59  | 106 | 50857   | 12.148 ug/L  | 97     |
| 57) Isopropylbenzene    | 9.98  | 105 | 113955  | 10.015 ug/L  | 99     |
| 64) 1,4-Dichlorobenzene | 11.32 | 146 | 3831    | 0.989 ug/L # | 64     |

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QLast Update : Thu Dec 20 01:58:47 2018  
Response via : Initial Calibration

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|-------------------------|-------|------|----------|-------|--------|----------|
| 65) 1,2-Dichlorobenzene | 11.69 | 146  | 7086     | 2.042 | ug/L # | 83       |

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

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