

Data File : VW015001.D  
Acq On : 17 Feb 2020 15:37  
Operator : SY/VA  
Sample : MDL07  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Feb 18 04:31:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
Quant Title : SFAM01.0  
QLast Update : Tue Feb 18 04:18:26 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 670997   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 622901   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 246546   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 316698   | 23.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.76%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 244801   | 23.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.08%  |
| 11) 1,1-Dichloroethene-d2      | 4.01   | 63    | 428469   | 17.67    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 70.68%  |
| 21) 2-Butanone-d5              | 7.07   | 46    | 172636   | 45.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.68%  |
| 24) Chloroform-d               | 7.65   | 84    | 502076   | 23.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.16%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 305436   | 24.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 96.64%  |
| 32) Benzene-d6                 | 8.27   | 84    | 1005937  | 23.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.88%  |
| 36) 1,2-Dichloropropane-d6     | 9.27   | 67    | 348322   | 24.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.52%  |
| 41) Toluene-d8                 | 10.32  | 98    | 843892   | 23.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.32%  |
| 43) trans-1,3-Dichloropropene- | 10.57  | 79    | 125491   | 22.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.52%  |
| 47) 2-Hexanone-d5              | 10.92  | 63    | 115081   | 44.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.64%  |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 255521   | 23.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 94.88%  |
| 66) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 233620   | 25.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.72% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 7200   | 1.080 ug/L   | 91     |
| 3) Chloromethane               | 2.21 | 50  | 17959  | 1.433 ug/L   | 96     |
| 5) Vinyl chloride              | 2.36 | 62  | 23165  | 1.436 ug/L # | 61     |
| 6) Bromomethane                | 2.78 | 94  | 9533   | 1.302 ug/L   | 99     |
| 8) Chloroethane                | 2.92 | 64  | 11396  | 1.320 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 7834   | 1.229 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 17245m | 1.654 ug/L   |        |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 15658  | 1.566 ug/L # | 1      |
| 13) Acetone                    | 4.13 | 43  | 14940  | 3.800 ug/L   | 82     |
| 14) Carbon disulfide           | 4.39 | 76  | 45219  | 1.251 ug/L   | 96     |
| 15) Methyl Acetate             | 4.68 | 43  | 8373m  | 1.227 ug/L   |        |
| 16) Methylene chloride         | 4.92 | 84  | 35839  | 2.891 ug/L   | 92     |
| 17) trans-1,2-Dichloroethene   | 5.42 | 96  | 12975  | 1.286 ug/L   | 95     |
| 18) Methyl tert-butyl Ether    | 5.43 | 73  | 14941  | 1.200 ug/L # | 82     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 29119  | 1.292 ug/L   | 93     |
| 20) cis-1,2-Dichloroethene     | 7.17 | 96  | 12941  | 1.244 ug/L   | 85     |
| 22) 2-Butanone                 | 7.18 | 43  | 15720m | 3.326 ug/L   |        |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 5725     | 1.357 | ug/L   | 83       |
| 25) Chloroform                 | 7.67  | 83   | 28872    | 1.438 | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 20871    | 1.414 | ug/L   | 97       |
| 29) Cyclohexane                | 7.95  | 56   | 21505    | 1.059 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97   | 19703    | 1.300 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 8.06  | 117  | 17752    | 1.300 | ug/L   | 96       |
| 33) Benzene                    | 8.32  | 78   | 60961    | 1.333 | ug/L   | 100      |
| 34) Trichloroethene            | 9.09  | 95   | 14156    | 1.292 | ug/L   | 96       |
| 35) Methylcyclohexane          | 9.33  | 83   | 19828    | 1.050 | ug/L   | 87       |
| 37) 1,2-Dichloropropane        | 9.37  | 63   | 17176    | 1.345 | ug/L # | 94       |
| 38) Bromodichloromethane       | 9.64  | 83   | 18616    | 1.294 | ug/L # | 92       |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75   | 20032    | 1.172 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43   | 21465    | 2.360 | ug/L   | 97       |
| 42) Toluene                    | 10.38 | 91   | 57564    | 1.303 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 19095m   | 1.347 | ug/L   |          |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 10359    | 1.337 | ug/L   | 92       |
| 46) Tetrachloroethene          | 10.86 | 164  | 9497     | 1.335 | ug/L   | 90       |
| 48) 2-Hexanone                 | 10.97 | 43   | 16670    | 2.516 | ug/L # | 90       |
| 49) Dibromochloromethane       | 11.13 | 129  | 9796     | 1.213 | ug/L   | 89       |
| 50) 1,2-Dibromoethane          | 11.23 | 107  | 8561     | 1.226 | ug/L # | 88       |
| 51) Chlorobenzene              | 11.65 | 112  | 33047    | 1.268 | ug/L   | 88       |
| 52) Ethylbenzene               | 11.73 | 91   | 53717    | 1.116 | ug/L   | 99       |
| 53) m,p-Xylene                 | 11.84 | 106  | 17792    | 1.053 | ug/L   | 92       |
| 54) o-Xylene                   | 12.16 | 106  | 15764    | 0.994 | ug/L   | 94       |
| 55) Styrene                    | 12.18 | 104  | 25224    | 0.923 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 14498    | 1.398 | ug/L # | 94       |
| 59) Bromoform                  | 12.34 | 173  | 5102     | 1.353 | ug/L   | 99       |
| 60) Isopropylbenzene           | 12.46 | 105  | 42168    | 1.093 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 10386    | 1.437 | ug/L   | 94       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 31842    | 1.035 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 30569    | 1.015 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 20121    | 1.265 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 22766    | 1.388 | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 21032    | 1.429 | ug/L   | 92       |
| 68) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 2429     | 1.608 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 14493    | 1.359 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 9670     | 1.210 | ug/L   | 90       |
| 71) Naphthalene                | 15.36 | 128  | 9018     | 1.099 | ug/L # | 92       |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 9652     | 1.303 | ug/L   | 98       |

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

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