

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021420\  
 Data File : VW014996.D  
 Acq On : 14 Feb 2020 14:37  
 Operator : SY/VA  
 Sample : MDL06  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 2/17/2020 3:46:40 PM

Quant Time: Feb 15 03:36:46 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M

Quant Title : SFAM01.0

QLast Update : Sat Feb 15 03:16:02 2020

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 699422   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 665875   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 269236   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 343842   | 24.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.64%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 261581   | 24.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.48%  |
| 11) 1,1-Dichloroethene-d2      | 4.02   | 63    | 460570   | 18.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 72.92%  |
| 21) 2-Butanone-d5              | 7.07   | 46    | 201116   | 51.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.46% |
| 24) Chloroform-d               | 7.65   | 84    | 555306   | 24.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 98.88%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 346582   | 26.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.20% |
| 32) Benzene-d6                 | 8.27   | 84    | 1117376  | 24.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.60%  |
| 36) 1,2-Dichloropropane-d6     | 9.27   | 67    | 388062   | 25.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.60% |
| 41) Toluene-d8                 | 10.32  | 98    | 948008   | 25.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.16% |
| 43) trans-1,3-Dichloropropene- | 10.57  | 79    | 141525   | 24.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.56%  |
| 47) 2-Hexanone-d5              | 10.92  | 63    | 138254   | 50.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 100.74% |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 286101   | 24.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 99.36%  |
| 66) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 265231   | 26.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 104.72% |

#### Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 11637  | 1.675 ug/L # | 89     |
| 3) Chloromethane               | 2.21 | 50  | 26409  | 2.021 ug/L   | 99     |
| 5) Vinyl chloride              | 2.36 | 62  | 35067m | 2.085 ug/L   |        |
| 6) Bromomethane                | 2.78 | 94  | 14937  | 1.958 ug/L   | 88     |
| 8) Chloroethane                | 2.92 | 64  | 18111  | 2.013 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 10963  | 1.650 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 25146  | 2.314 ug/L   | 87     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 22739  | 2.182 ug/L # | 1      |
| 13) Acetone                    | 4.12 | 43  | 18313  | 4.469 ug/L   | 99     |
| 14) Carbon disulfide           | 4.39 | 76  | 71442  | 1.896 ug/L   | 97     |
| 15) Methyl Acetate             | 4.68 | 43  | 13003  | 1.829 ug/L # | 87     |
| 16) Methylene chloride         | 4.91 | 84  | 53588  | 4.147 ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 5.43 | 96  | 20827  | 1.980 ug/L   | 91     |
| 18) Methyl tert-butyl Ether    | 5.42 | 73  | 25198  | 1.941 ug/L # | 84     |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 46324  | 1.972 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 7.17 | 96  | 20993  | 1.937 ug/L   | 94     |
| 22) 2-Butanone                 | 7.18 | 43  | 21291  | 4.322 ug/L   | 89     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Feb 15 03:16:02 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 7.52  | 128  | 9324     | 2.121 | ug/L   | 73       |
| 25) Chloroform                 | 7.67  | 83   | 45151    | 2.157 | ug/L   | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 32784    | 2.131 | ug/L   | 97       |
| 29) Cyclohexane                | 7.96  | 56   | 33716    | 1.553 | ug/L # | 94       |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97   | 32101    | 1.982 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 8.07  | 117  | 28038    | 1.920 | ug/L   | 99       |
| 33) Benzene                    | 8.32  | 78   | 99226    | 2.030 | ug/L   | 100      |
| 34) Trichloroethene            | 9.09  | 95   | 22540    | 1.925 | ug/L   | 94       |
| 35) Methylcyclohexane          | 9.33  | 83   | 33712    | 1.669 | ug/L   | 92       |
| 37) 1,2-Dichloropropane        | 9.37  | 63   | 27659    | 2.026 | ug/L   | 98       |
| 38) Bromodichloromethane       | 9.64  | 83   | 28789    | 1.872 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75   | 32024    | 1.753 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43   | 34460    | 3.545 | ug/L   | 99       |
| 42) Toluene                    | 10.38 | 91   | 95428    | 2.020 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 30233m   | 1.995 | ug/L   |          |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 17039    | 2.057 | ug/L   | 95       |
| 46) Tetrachloroethene          | 10.86 | 164  | 14732    | 1.938 | ug/L   | 97       |
| 48) 2-Hexanone                 | 10.96 | 43   | 27091    | 3.825 | ug/L   | 98       |
| 49) Dibromochloromethane       | 11.13 | 129  | 16785    | 1.945 | ug/L   | 89       |
| 50) 1,2-Dibromoethane          | 11.24 | 107  | 14918    | 1.998 | ug/L # | 96       |
| 51) Chlorobenzene              | 11.65 | 112  | 55824    | 2.003 | ug/L   | 97       |
| 52) Ethylbenzene               | 11.73 | 91   | 90600    | 1.761 | ug/L   | 96       |
| 53) m,p-Xylene                 | 11.84 | 106  | 31109    | 1.723 | ug/L   | 100      |
| 54) o-Xylene                   | 12.16 | 106  | 26381    | 1.556 | ug/L   | 99       |
| 55) Styrene                    | 12.18 | 104  | 44835    | 1.534 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 23325    | 2.105 | ug/L   | 93       |
| 59) Bromoform                  | 12.35 | 173  | 8107     | 1.969 | ug/L # | 94       |
| 60) Isopropylbenzene           | 12.46 | 105  | 70348    | 1.669 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 17113    | 2.169 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 53203    | 1.583 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 50138    | 1.525 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 33118    | 1.906 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 36684    | 2.048 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 35997    | 2.239 | ug/L   | 93       |
| 68) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 3722     | 2.256 | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 21554    | 1.851 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 14439    | 1.654 | ug/L   | 97       |
| 71) Naphthalene                | 15.37 | 128  | 12198    | 1.361 | ug/L # | 90       |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 13827    | 1.710 | ug/L   | 94       |
| -----                          |       |      |          |       |        |          |

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

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