

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030520\  
 Data File : VD065423.D  
 Acq On : 05 Mar 2020 11:11  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/6/2020 11:17:23 AM

Quant Time: Mar 06 03:53:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.98   | 168  | 530224   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.87   | 114  | 757263   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.65  | 117  | 673784   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58  | 152  | 330293   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.34   | 65   | 216623   | 47.63   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 95.26%  |          |
| 35) Dibromofluoromethane      | 7.92   | 113  | 234209   | 50.01   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 100.02% |          |
| 50) Toluene-d8                | 10.34  | 98   | 936154   | 52.11   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 104.22% |          |
| 62) 4-Bromofluorobenzene      | 12.64  | 95   | 285953   | 51.56   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 103.12% |          |
| Target Compounds              |        |      |          | Qvalue  |         |          |
| 2) Dichlorodifluoromethane    | 1.99   | 85   | 218369   | 47.920  | ug/l    | 100      |
| 3) Chloromethane              | 2.21   | 50   | 259283   | 47.128  | ug/l    | 100      |
| 4) Vinyl Chloride             | 2.36   | 62   | 271142   | 49.967  | ug/l    | 97       |
| 5) Bromomethane               | 2.77   | 94   | 170936   | 56.875  | ug/l    | 99       |
| 6) Chloroethane               | 2.93   | 64   | 165728   | 49.865  | ug/l    | 99       |
| 7) Trichlorofluoromethane     | 3.27   | 101  | 397987   | 49.774  | ug/l    | 100      |
| 8) Diethyl Ether              | 3.71   | 74   | 115826   | 48.711  | ug/l    | 98       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09   | 101  | 259152   | 50.324  | ug/l    | 98       |
| 10) Methyl Iodide             | 4.30   | 142  | 302223   | 56.490  | ug/l    | 97       |
| 11) Tert butyl alcohol        | 5.24   | 59   | 52473    | 201.134 | ug/l #  | 92       |
| 12) 1,1-Dichloroethene        | 4.07   | 96   | 246513   | 49.991  | ug/l    | 96       |
| 13) Acrolein                  | 3.92   | 56   | 96663    | 214.840 | ug/l    | 98       |
| 14) Allyl chloride            | 4.71   | 41   | 385624   | 50.907  | ug/l    | 99       |
| 15) Acrylonitrile             | 5.43   | 53   | 252360   | 243.954 | ug/l    | 99       |
| 16) Acetone                   | 4.16   | 43   | 270646   | 294.231 | ug/l    | 99       |
| 17) Carbon Disulfide          | 4.40   | 76   | 817808   | 49.801  | ug/l    | 99       |
| 18) Methyl Acetate            | 4.71   | 43   | 111560   | 47.812  | ug/l    | 100      |
| 19) Methyl tert-butyl Ether   | 5.49   | 73   | 486024   | 51.253  | ug/l    | 100      |
| 20) Methylene Chloride        | 4.96   | 84   | 267418   | 53.797  | ug/l    | 98       |
| 21) trans-1,2-Dichloroethene  | 5.47   | 96   | 280910   | 51.210  | ug/l    | 99       |
| 22) Diisopropyl ether         | 6.37   | 45   | 743343   | 52.788  | ug/l    | 96       |
| 23) Vinyl Acetate             | 6.31   | 43   | 2077918  | 265.757 | ug/l    | 100      |
| 24) 1,1-Dichloroethane        | 6.26   | 63   | 454307   | 50.298  | ug/l    | 98       |
| 25) 2-Butanone                | 7.22   | 43   | 328094   | 261.375 | ug/l    | 98       |
| 26) 2,2-Dichloropropane       | 7.21   | 77   | 406250   | 51.469  | ug/l    | 100      |
| 27) cis-1,2-Dichloroethene    | 7.21   | 96   | 286989   | 51.184  | ug/l    | 98       |
| 28) Bromochloromethane        | 7.55   | 49   | 183251   | 50.711  | ug/l    | 98       |
| 29) Tetrahydrofuran           | 7.57   | 42   | 199750   | 249.181 | ug/l    | 99       |
| 30) Chloroform                | 7.71   | 83   | 453942   | 50.282  | ug/l    | 100      |
| 31) Cyclohexane               | 7.98   | 56   | 451383   | 49.978  | ug/l    | 96       |
| 32) 1,1,1-Trichloroethane     | 7.91   | 97   | 421507   | 50.523  | ug/l    | 99       |
| 36) 1,1-Dichloropropene       | 8.11   | 75   | 385685   | 53.133  | ug/l    | 100      |
| 37) Ethyl Acetate             | 7.30   | 43   | 144387   | 51.463  | ug/l    | 96       |
| 38) Carbon Tetrachloride      | 8.10   | 117  | 394595   | 52.422  | ug/l    | 95       |

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 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/6/2020 11:17:23 AM

Quant Time: Mar 06 03:53:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 01:22:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 480495   | 54.806  | ug/l   | 95       |
| 40) Benzene                    | 8.36  | 78   | 1052229  | 51.846  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 83310m   | 56.147  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 266855   | 50.353  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.46  | 43   | 260947   | 50.371  | ug/l   | 100      |
| 44) Trichloroethene            | 9.11  | 130  | 298267   | 52.040  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 257033   | 52.283  | ug/l   | 98       |
| 46) Dibromomethane             | 9.48  | 93   | 128803   | 50.510  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.67  | 83   | 340190   | 51.279  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 122925   | 50.444  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 26892    | 921.935 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 684382   | 262.525 | ug/l   | 99       |
| 52) Toluene                    | 10.41 | 92   | 670308   | 52.427  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 326763   | 52.706  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 402636   | 53.654  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.81 | 97   | 181755   | 50.323  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 220630   | 54.186  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 318671   | 52.147  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.95  | 63   | 285111   | 224.268 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 512110   | 283.778 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.14 | 129  | 238152   | 51.440  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 175949   | 51.073  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 260724   | 54.002  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.68 | 112  | 691056   | 51.829  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 258322   | 53.196  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.75 | 91   | 1264056  | 54.867  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.86 | 106  | 976940   | 109.973 | ug/l   | 98       |
| 69) o-Xylene                   | 12.18 | 106  | 431305   | 55.195  | ug/l   | 99       |
| 70) Styrene                    | 12.20 | 104  | 769239   | 55.934  | ug/l   | 99       |
| 71) Bromoform                  | 12.37 | 173  | 139905   | 51.291  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.48 | 105  | 1214014  | 55.881  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.30 | 43   | 232691   | 52.318  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 187609   | 49.128  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 127513m  | 48.925  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 288621   | 53.472  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 1448071  | 56.177  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 783413   | 53.927  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 997995   | 55.878  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 66368    | 53.738  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 820736   | 53.763  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 837173   | 55.405  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 984065   | 55.896  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1211459  | 56.169  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 1122133  | 57.016  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 543293   | 52.354  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 529906   | 51.335  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.86 | 91   | 1029074  | 56.558  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 217635   | 53.697  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 459907   | 52.079  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 28456    | 48.929  | ug/l   | 99       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
3/6/2020 11:17:23 AM

Quant Time: Mar 06 03:53:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 01:22:07 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 326604   | 54.568 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 209218   | 53.199 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 526890   | 49.445 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 281581   | 54.442 | ug/l  | 98       |

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

