

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072920\  
 Data File : VD066084.D  
 Acq On : 29 Jul 2020 11:03  
 Operator : VA/SY  
 Sample : VD0729SBS01  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0729SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/30/2020 6:19:39 PM

Quant Time: Jul 30 01:45:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 241657   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 336620   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 315789   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 170016   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 104332   | 53.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.12% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 108245   | 53.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.04% |      |
| 50) Toluene-d8            | 10.34  | 98  | 413149   | 54.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.64% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 143888   | 54.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.12% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 43156  | 23.532 | ug/l   | 97     |
| 3) Chloromethane              | 2.21 | 50  | 31830  | 21.268 | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.35 | 62  | 32016  | 22.464 | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94  | 22896  | 19.814 | ug/l   | 88     |
| 6) Chloroethane               | 2.93 | 64  | 19092  | 22.441 | ug/l # | 88     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 81621  | 23.545 | ug/l   | 99     |
| 8) Diethyl Ether              | 3.71 | 74  | 18491  | 19.297 | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.10 | 101 | 47004  | 22.456 | ug/l   | 98     |
| 10) Methyl Iodide             | 4.30 | 142 | 44169  | 26.020 | ug/l   | 94     |
| 11) Tert butyl alcohol        | 5.20 | 59  | 12195m | 80.147 | ug/l   |        |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 43666  | 21.854 | ug/l   | 91     |
| 13) Acrolein                  | 3.92 | 56  | 12284  | 74.148 | ug/l   | 96     |
| 14) Allyl chloride            | 4.71 | 41  | 58953  | 18.875 | ug/l   | 90     |
| 15) Acrylonitrile             | 5.42 | 53  | 37765  | 92.252 | ug/l   | 97     |
| 16) Acetone                   | 4.16 | 43  | 36641  | 92.059 | ug/l   | 90     |
| 17) Carbon Disulfide          | 4.41 | 76  | 124980 | 19.284 | ug/l   | 98     |
| 18) Methyl Acetate            | 4.71 | 43  | 17244  | 18.624 | ug/l # | 74     |
| 19) Methyl tert-butyl Ether   | 5.47 | 73  | 86230  | 21.005 | ug/l   | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 47498  | 19.791 | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.46 | 96  | 47529  | 21.047 | ug/l   | 91     |
| 22) Diisopropyl ether         | 6.36 | 45  | 114796 | 19.346 | ug/l   | 93     |
| 23) Vinyl Acetate             | 6.30 | 43  | 320525 | 95.781 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 74818  | 20.810 | ug/l   | 98     |
| 25) 2-Butanone                | 7.21 | 43  | 46441  | 87.934 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.20 | 77  | 72821  | 22.524 | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 51561  | 21.565 | ug/l   | 96     |
| 28) Bromochloromethane        | 7.54 | 49  | 29598  | 19.396 | ug/l   | 87     |
| 29) Tetrahydrofuran           | 7.56 | 42  | 28829  | 88.470 | ug/l   | 91     |
| 30) Chloroform                | 7.70 | 83  | 82445  | 21.922 | ug/l   | 91     |
| 31) Cyclohexane               | 7.98 | 56  | 70000  | 19.790 | ug/l # | 84     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 82884  | 23.826 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 64371  | 22.406 | ug/l   | 97     |
| 37) Ethyl Acetate             | 7.29 | 43  | 21393  | 19.498 | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.09 | 117 | 80262  | 25.748 | ug/l   | 93     |

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 7/30/2020 6:19:39 PM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 75316    | 21.648  | ug/l   | 96       |
| 40) Benzene                    | 8.35  | 78   | 174534   | 21.715  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.51  | 41   | 11935    | 18.989  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 52122    | 23.666  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 40767    | 19.024  | ug/l   | 97       |
| 44) Trichloroethene            | 9.11  | 130  | 52646    | 21.645  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 41249    | 21.190  | ug/l   | 90       |
| 46) Dibromomethane             | 9.47  | 93   | 23339    | 22.272  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.66  | 83   | 63519    | 22.925  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 20297    | 18.777  | ug/l   | 89       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 5165     | 425.433 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 104901   | 97.156  | ug/l   | 97       |
| 52) Toluene                    | 10.40 | 92   | 117365   | 22.392  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 58840    | 22.794  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 69226    | 22.123  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 32936    | 22.161  | ug/l   | 92       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 36207    | 20.954  | ug/l # | 90       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 53876    | 21.898  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 89650    | 108.609 | ug/l   | 95       |
| 59) 2-Hexanone                 | 10.98 | 43   | 72009    | 96.239  | ug/l   | 93       |
| 60) Dibromochloromethane       | 11.14 | 129  | 47272    | 23.591  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 32477    | 22.664  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.88 | 164  | 52081    | 24.299  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.67 | 112  | 133003   | 23.003  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 50601    | 23.701  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.75 | 91   | 227199   | 22.834  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.86 | 106  | 181321   | 47.411  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 77811    | 22.369  | ug/l   | 92       |
| 70) Styrene                    | 12.20 | 104  | 146696   | 24.545  | ug/l   | 98       |
| 71) Bromoform                  | 12.37 | 173  | 29330    | 23.454  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 234290   | 22.774  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.29 | 43   | 40427    | 18.953  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 33324    | 19.600  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 25790m   | 20.146  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 56853    | 21.624  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.83 | 91   | 271530   | 22.745  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 147478   | 21.624  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 200012   | 23.664  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 10439    | 18.712  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 158110   | 21.964  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 166412   | 22.500  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 194324   | 23.304  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 232566   | 22.829  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 221663   | 23.950  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 110540   | 22.645  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 111838   | 22.664  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.86 | 91   | 194592   | 22.612  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 42074    | 21.960  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 96201    | 22.743  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 6017     | 21.594  | ug/l   | 88       |

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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7/30/2020 6:19:39 PM

Quant Time: Jul 30 01:45:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 12:34:13 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 70236    | 23.133 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 45595    | 24.291 | ug/l  | 97       |
| 95) Naphthalene            | 15.41 | 128  | 102403   | 21.168 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 60297    | 22.844 | ug/l  | 99       |

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

