

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042621\  
 Data File : VD068983.D  
 Acq On : 26 Apr 2021 12:43  
 Operator : VA/SY  
 Sample : VD0426SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0426SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/27/2021 3:37:22 PM

Quant Time: Apr 27 07:12:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 255050             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 415401             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 384325             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 200134             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.338          | 65   | 125606             | 46.60  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 93.20%  |        |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 144311             | 53.41  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.82% |        |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 518651             | 50.88  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 101.76% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 175731             | 51.91  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 103.82% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 55375              | 21.91  | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 55901              | 18.81  | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.350          | 62   | 76835              | 20.59  | ug/l   | 98       |
| 5) Bromomethane              | 2.756          | 94   | 63606              | 22.80  | ug/l   | 95       |
| 6) Chloroethane              | 2.920          | 64   | 52174              | 21.27  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 101991             | 23.22  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.715          | 74   | 24223              | 20.42  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 59682              | 22.52  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.303          | 142  | 57534              | 19.96  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.232          | 59   | 17971              | 108.71 | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 56397              | 22.09  | ug/l   | 87       |
| 13) Acrolein                 | 3.926          | 56   | 6905               | 65.08  | ug/l   | 89       |
| 14) Allyl chloride           | 4.714          | 41   | 54217              | 18.84  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.426          | 53   | 49046              | 92.14  | ug/l   | 98       |
| 16) Acetone                  | 4.162          | 43   | 41206              | 110.39 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.409          | 76   | 170005             | 20.57  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.720          | 43   | 19476              | 18.99  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.485          | 73   | 102757             | 18.14  | ug/l   | 91       |
| 20) Methylene Chloride       | 4.967          | 84   | 80656              | 24.19  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 62455              | 19.05  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.373          | 45   | 127610             | 18.31  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.314          | 43   | 333557             | 90.28  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 101731             | 19.35  | ug/l   | 98       |
| 25) 2-Butanone               | 7.214          | 43   | 53563              | 101.41 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 94027              | 21.90  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 72167              | 22.15  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.544          | 49   | 33696              | 17.76  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 31466              | 88.58  | ug/l   | 92       |
| 30) Chloroform               | 7.708          | 83   | 117873             | 20.49  | ug/l   | 96       |
| 31) Cyclohexane              | 7.991          | 56   | 80714              | 18.00  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 102762             | 20.44  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 85570              | 20.35  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.297          | 43   | 23117              | 18.72  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 93078              | 22.36  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.355          | 83   | 97198              | 19.82  | ug/l   | 90       |
| 40) Benzene                  | 8.355          | 78   | 255365             | 20.75  | ug/l   | 97       |

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 Sample : VD0426SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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Manual Integrations  
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MMDadoda  
 4/27/2021 3:37:22 PM

Quant Time: Apr 27 07:12:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 15829    | 21.65  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 68767    | 21.14  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 50604    | 20.10  | ug/l   | 98       |
| 44) Trichloroethene           | 9.114  | 130  | 71622    | 21.08  | ug/l   | 85       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 59167    | 20.13  | ug/l   | 98       |
| 46) Dibromomethane            | 9.479  | 93   | 36125    | 22.07  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.661  | 83   | 92033    | 21.52  | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.455  | 41   | 23993    | 19.34  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 7432     | 428.78 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 125582   | 98.96  | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 170435   | 21.88  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 80278    | 21.18  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 96790    | 21.34  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 51670    | 22.32  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 47896    | 20.10  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 78859    | 20.69  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 100383   | 90.74  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.985 | 43   | 86166    | 101.48 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.138 | 129  | 66528    | 22.92  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 48545    | 21.58  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.879 | 164  | 65262    | 24.23  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.667 | 112  | 185926   | 22.35  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 68466    | 22.89  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.744 | 91   | 308163   | 21.39  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 247077   | 44.45  | ug/l   | 97       |
| 69) o-Xylene                  | 12.179 | 106  | 109081   | 21.58  | ug/l   | 96       |
| 70) Styrene                   | 12.196 | 104  | 194330   | 22.06  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 35714    | 22.29  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.479 | 105  | 295601   | 20.23  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 44221    | 17.84  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 54014    | 19.78  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 48835m   | 26.71  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 74459    | 21.20  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.820 | 91   | 367531   | 20.71  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 203009   | 20.48  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 260790   | 21.35  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 14830    | 18.82  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 214667   | 20.43  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 208283   | 20.09  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 253757   | 20.57  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 296979   | 20.30  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 277542   | 20.77  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 147324   | 21.17  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 146169   | 21.22  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.838 | 91   | 251378   | 19.98  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.108 | 117  | 56366    | 21.18  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 130432   | 21.66  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 8197     | 19.74  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 76916    | 20.64  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 45364    | 21.26  | ug/l   | 93       |
| 95) Naphthalene               | 15.390 | 128  | 126739   | 19.52  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 68622    | 21.05  | ug/l   | 99       |

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Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_D  
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Manual Integrations  
APPROVED

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4/27/2021 3:37:22 PM

Quant Time: Apr 27 07:12:08 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 08 03:50:31 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

