

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051022\  
 Data File : VD072907.D  
 Acq On : 10 May 2022 11:47  
 Operator : VA/SY  
 Sample : VD0510SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0510SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 05:48:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 311565              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.856          | 114  | 531964              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 514526              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 254196              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 214017              | 52.917  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.840% |         |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 213583              | 57.168  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 114.340% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 747603              | 55.785  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 111.560% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 287777              | 57.589  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 115.180% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 79395               | 18.441  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 79747               | 17.811  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.344          | 62   | 73667               | 18.336  | ug/l   | 98       |
| 5) Bromomethane              | 2.756          | 94   | 50841               | 19.634  | ug/l   | 95       |
| 6) Chloroethane              | 2.915          | 64   | 47864               | 19.115  | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 3.274          | 101  | 137888              | 19.599  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.715          | 74   | 38056               | 18.868  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 81273               | 19.458  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.303          | 142  | 76127               | 18.161  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.191          | 59   | 54569               | 155.947 | ug/l # | 74       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 70556               | 18.780  | ug/l   | 86       |
| 13) Acrolein                 | 3.926          | 56   | 26292               | 97.976  | ug/l   | 92       |
| 14) Allyl chloride           | 4.715          | 41   | 112015              | 18.468  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.421          | 53   | 90163               | 94.061  | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 73247               | 87.711  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.409          | 76   | 207386              | 17.556  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.721          | 43   | 47089               | 21.255  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 177991              | 19.763  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.962          | 84   | 97130               | 15.771  | ug/l   | 86       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 82995               | 19.262  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.362          | 45   | 266719              | 19.990  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.303          | 43   | 682616              | 92.612  | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 157272              | 19.619  | ug/l   | 100      |
| 25) 2-Butanone               | 7.203          | 43   | 112899              | 95.807  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 131456              | 19.398  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 93547               | 18.956  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.544          | 49   | 54384               | 18.192  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 70495               | 93.854  | ug/l   | 93       |
| 30) Chloroform               | 7.703          | 83   | 164158              | 19.353  | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 134575              | 19.035  | ug/l # | 84       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 143626              | 19.868  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 117806              | 19.392  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 51131               | 18.309  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 122667              | 19.452  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.350          | 83   | 132366              | 18.785  | ug/l   | 95       |
| 40) Benzene                  | 8.350          | 78   | 344635              | 19.645  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051022\  
 Data File : VD072907.D  
 Acq On : 10 May 2022 11:47  
 Operator : VA/SY  
 Sample : VD0510SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0510SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 05:48:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.515  | 41   | 34370    | 20.669  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 102273   | 19.346  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 98537    | 19.117  | ug/l   | 92       |
| 44) Trichloroethene           | 9.109  | 130  | 92596    | 19.729  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 93110    | 20.210  | ug/l   | 91       |
| 46) Dibromomethane            | 9.473  | 93   | 50267    | 19.779  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.656  | 83   | 130074   | 19.895  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.450  | 41   | 45702    | 18.124  | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 10944    | 382.407 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 262781   | 98.110  | ug/l   | 97       |
| 52) Toluene                   | 10.397 | 92   | 220314   | 20.132  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 117782   | 19.613  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 142032   | 20.358  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 68938    | 20.066  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.656 | 69   | 80141    | 19.812  | ug/l # | 86       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 117231   | 19.884  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 187662   | 95.685  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.973 | 43   | 173935   | 96.509  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.132 | 129  | 85531    | 19.776  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 64476    | 19.281  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.867 | 164  | 72815    | 19.356  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.661 | 112  | 232153   | 19.508  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 90656    | 20.270  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 409673   | 19.891  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.844 | 106  | 320919   | 40.451  | ug/l   | 100      |
| 69) o-Xylene                  | 12.167 | 106  | 148632   | 20.060  | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 263071   | 20.493  | ug/l   | 97       |
| 71) Bromoform                 | 12.350 | 173  | 48609    | 20.054  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.467 | 105  | 394961   | 19.971  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 95101    | 19.309  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 78992    | 19.786  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 55294m   | 19.508  | ug/l   |          |
| 77) Bromobenzene              | 12.750 | 156  | 93785    | 19.970  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.808 | 91   | 497978   | 19.978  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 284986   | 19.572  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.950 | 105  | 337023   | 20.097  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 23187    | 18.812  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 306661   | 20.157  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.208 | 119  | 284850   | 19.979  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 334581   | 19.960  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 434749   | 20.218  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 350176   | 19.862  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 188526   | 19.927  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 187281   | 19.878  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 340538   | 19.939  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.097 | 117  | 70662    | 19.565  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 164931   | 20.003  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 12072    | 19.076  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.144 | 180  | 96080    | 19.676  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 53086    | 19.906  | ug/l   | 98       |
| 95) Naphthalene               | 15.385 | 128  | 170390   | 18.979  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 84845    | 19.601  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051022\  
Data File : VD072907.D  
Acq On : 10 May 2022 11:47  
Operator : VA/SY  
Sample : VD0510SBSD01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0510SBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/11/2022  
Supervised By :Mahesh Dadoda 05/11/2022

Quant Time: May 11 05:48:43 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 03 08:33:49 2022  
Response via : Initial Calibration

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

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

