

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032522\  
 Data File : VD072434.D  
 Acq On : 25 Mar 2022 17:38  
 Operator : VA/SY  
 Sample : N1645-03 2.5PPB  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2022

Quant Time: Mar 26 01:55:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 01:55:27 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/29/2022  
 Supervised By :Semsettin Yesilyurt 03/29/2022

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 370539              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 621013              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 574950              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 289641              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 223277              | 54.069 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 108.140% |        |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 212664              | 48.663 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 97.320%  |        |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 761489              | 47.654 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 95.300%  |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 290969              | 46.864 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 93.720%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 6444                | 1.880  | ug/l   | 84       |
| 3) Chloromethane             | 2.209          | 50   | 6768                | 2.222  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.344          | 62   | 6614                | 2.250  | ug/l   | 100      |
| 5) Bromomethane              | 2.774          | 94   | 5858                | 3.060  | ug/l   | 98       |
| 6) Chloroethane              | 2.921          | 64   | 5515                | 2.837  | ug/l # | 85       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 14755               | 2.223  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.715          | 74   | 5061                | 2.760  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 9363                | 2.212  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.309          | 142  | 5527                | 1.633  | ug/l # | 90       |
| 11) Tert butyl alcohol       | 5.232          | 59   | 5010                | 20.925 | ug/l # | 74       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 7426                | 2.181  | ug/l # | 85       |
| 13) Acrolein                 | 3.926          | 56   | 2602                | 12.179 | ug/l # | 71       |
| 14) Allyl chloride           | 4.715          | 41   | 15026               | 2.524  | ug/l # | 62       |
| 15) Acrylonitrile            | 5.420          | 53   | 15348               | 16.590 | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 14536               | 16.213 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 9707                | 1.398  | ug/l # | 92       |
| 18) Methyl Acetate           | 4.726          | 43   | 8790                | 4.001  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 27040               | 2.921  | ug/l   | 93       |
| 20) Methylene Chloride       | 4.973          | 84   | 22267               | 4.132  | ug/l # | 77       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 8070                | 2.142  | ug/l # | 83       |
| 22) Diisopropyl ether        | 6.373          | 45   | 37474               | 2.759  | ug/l # | 83       |
| 23) Vinyl Acetate            | 6.303          | 43   | 91120               | 13.146 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.256          | 63   | 21152               | 2.641  | ug/l   | 94       |
| 25) 2-Butanone               | 7.214          | 43   | 19456               | 16.275 | ug/l # | 88       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 16946               | 2.345  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 12056               | 2.507  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.544          | 49   | 7872                | 2.441  | ug/l # | 91       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 11817               | 16.811 | ug/l   | 98       |
| 30) Chloroform               | 7.703          | 83   | 25243               | 2.958  | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 20178               | 3.128  | ug/l # | 41       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 18882               | 2.492  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 12930               | 2.109  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.297          | 43   | 8685                | 3.234  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 13829               | 1.984  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.350          | 83   | 12247               | 1.775  | ug/l # | 83       |
| 40) Benzene                  | 8.344          | 78   | 50458               | 2.885  | ug/l   | 97       |

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 Sample : N1645-03 2.5PPB  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2022

Quant Time: Mar 26 01:55:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 01:55:27 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/29/2022  
 Supervised By :Semsettin Yesilyurt 03/29/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.532  | 41   | 5530m    | 3.533  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 14796    | 2.789  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 15922    | 3.055  | ug/l # | 93       |
| 44) Trichloroethene           | 9.108  | 130  | 10583    | 2.155  | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 12309    | 2.566  | ug/l # | 84       |
| 46) Dibromomethane            | 9.467  | 93   | 6154     | 2.608  | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.656  | 83   | 17854    | 2.596  | ug/l # | 89       |
| 48) Methyl methacrylate       | 9.450  | 41   | 7447     | 2.992  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 1942     | 68.634 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 42455    | 15.508 | ug/l   | 100      |
| 52) Toluene                   | 10.397 | 92   | 27676    | 2.405  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 16045    | 2.553  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 18098    | 2.491  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 10632    | 2.958  | ug/l   | 90       |
| 56) Ethyl methacrylate        | 10.650 | 69   | 11565    | 2.747  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 16567    | 2.746  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 20048    | 10.591 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.979 | 43   | 27723    | 14.662 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.126 | 129  | 12332    | 2.644  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 8802     | 2.710  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.867 | 164  | 9777     | 2.413  | ug/l   | 87       |
| 65) Chlorobenzene             | 11.667 | 112  | 31970    | 2.508  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 12473    | 2.475  | ug/l   | 93       |
| 67) Ethyl Benzene             | 11.738 | 91   | 60090    | 2.640  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.844 | 106  | 35430    | 4.099  | ug/l   | 94       |
| 69) o-Xylene                  | 12.173 | 106  | 17780    | 2.150  | ug/l   | 97       |
| 70) Styrene                   | 12.191 | 104  | 32877    | 2.277  | ug/l   | 98       |
| 71) Bromoform                 | 12.355 | 173  | 7866     | 2.921  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.467 | 105  | 54119    | 2.358  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.279 | 43   | 14456    | 2.931  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 13593    | 3.311  | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 9788m    | 3.064  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 13313    | 2.577  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.814 | 91   | 65464    | 2.348  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 38396    | 2.382  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 47991    | 2.434  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 3360m    | 2.609  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.997 | 91   | 41137    | 2.464  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 37075    | 2.145  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 52226    | 2.688  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 54584    | 2.103  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 45622    | 2.136  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 24925    | 2.302  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 27406    | 2.553  | ug/l   | 87       |
| 89) n-Butylbenzene            | 13.832 | 91   | 47207    | 2.318  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.102 | 117  | 10414    | 2.487  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 24483    | 2.594  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 2515     | 3.839  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 15231    | 2.437  | ug/l   | 90       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 7689     | 2.115  | ug/l   | 96       |
| 95) Naphthalene               | 15.385 | 128  | 167489   | 15.547 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 13515    | 2.498  | ug/l   | 99       |

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Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2022

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 03/29/2022  
Supervised By :Semsettin Yesilyurt 03/29/2022

Quant Time: Mar 26 01:55:38 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 26 01:55:27 2022  
Response via : Initial Calibration

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

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

