

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091622\  
 Data File : VD074335.D  
 Acq On : 16 Sep 2022 17:43  
 Operator : VA/SY  
 Sample : MDL03 2.5PPB  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL03 2.5PPB

Quant Time: Sep 17 05:13:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D091622S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 17 05:13:14 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/19/2022  
 Supervised By :Mahesh Dadoda 09/19/2022

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 97847               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 171371              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.575         | 117  | 152653              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.510         | 152  | 70466               | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 52398               | 54.979 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 109.960% |        |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 51857               | 45.946 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 91.900%  |        |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 211260              | 54.247 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 108.500% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 60517               | 40.017 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 80.040%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 3145                | 3.489  | ug/l   | 91       |
| 3) Chloromethane             | 2.140          | 50   | 2092                | 2.441  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.275          | 62   | 2009                | 2.388  | ug/l   | 96       |
| 5) Bromomethane              | 2.687          | 94   | 1751                | 3.367  | ug/l   | 99       |
| 6) Chloroethane              | 2.840          | 64   | 1130                | 2.286  | ug/l # | 44       |
| 7) Trichlorofluoromethane    | 3.169          | 101  | 4488                | 2.738  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.599          | 74   | 1314                | 2.515  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 2565                | 2.488  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.163          | 142  | 1658                | 1.302  | ug/l # | 89       |
| 11) Tert butyl alcohol       | 5.063          | 59   | 1115m               | 17.312 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 2597                | 2.475  | ug/l   | 88       |
| 13) Acrolein                 | 3.799          | 56   | 610                 | 8.782  | ug/l # | 56       |
| 14) Allyl chloride           | 4.546          | 41   | 3426                | 2.256  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.263          | 53   | 2933                | 12.734 | ug/l # | 89       |
| 16) Acetone                  | 4.028          | 43   | 3354                | 15.621 | ug/l # | 84       |
| 17) Carbon Disulfide         | 4.263          | 76   | 6962                | 2.038  | ug/l # | 95       |
| 18) Methyl Acetate           | 4.569          | 43   | 2135                | 3.347  | ug/l # | 65       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 5438                | 2.420  | ug/l # | 89       |
| 20) Methylene Chloride       | 4.799          | 84   | 14911               | 8.173  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 2605                | 2.242  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.205          | 45   | 7079                | 2.213  | ug/l # | 74       |
| 23) Vinyl Acetate            | 6.157          | 43   | 14059m              | 9.608  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 5169                | 2.511  | ug/l # | 85       |
| 25) 2-Butanone               | 7.093          | 43   | 4767                | 14.906 | ug/l # | 78       |
| 26) 2,2-Dichloropropane      | 7.069          | 77   | 4843                | 2.850  | ug/l   | 82       |
| 27) cis-1,2-Dichloroethene   | 7.069          | 96   | 3232                | 2.511  | ug/l   | 84       |
| 28) Bromochloromethane       | 7.428          | 49   | 1616                | 2.033  | ug/l # | 54       |
| 29) Tetrahydrofuran          | 7.452          | 42   | 2351                | 12.828 | ug/l # | 85       |
| 30) Chloroform               | 7.604          | 83   | 4933                | 2.437  | ug/l   | 98       |
| 31) Cyclohexane              | 7.875          | 56   | 6136                | 3.070  | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 4499                | 2.519  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 3921                | 2.276  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.175          | 43   | 1913                | 2.772  | ug/l # | 84       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 3780                | 2.476  | ug/l # | 74       |
| 39) Methylcyclohexane        | 9.269          | 83   | 4922                | 2.362  | ug/l   | 94       |
| 40) Benzene                  | 8.246          | 78   | 10775               | 2.230  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091622\  
 Data File : VD074335.D  
 Acq On : 16 Sep 2022 17:43  
 Operator : VA/SY  
 Sample : MDL03 2.5PPB  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL03 2.5PPB

Quant Time: Sep 17 05:13:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D091622S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 17 05:13:14 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/19/2022  
 Supervised By :Mahesh Dadoda 09/19/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 709m     | 1.892  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.316  | 62   | 2829     | 2.293  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 3263     | 2.562  | ug/l # | 91       |
| 44) Trichloroethene           | 9.028  | 130  | 3171     | 2.497  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 3034     | 2.497  | ug/l # | 89       |
| 46) Dibromomethane            | 9.393  | 93   | 1453     | 2.325  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.581  | 83   | 3690     | 2.397  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.381  | 41   | 1414     | 2.295  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 324      | 47.376 | ug/l # | 24       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 8568     | 12.806 | ug/l   | 95       |
| 52) Toluene                   | 10.328 | 92   | 7339     | 2.466  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 2931     | 2.134  | ug/l # | 85       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 4190     | 2.358  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 2320     | 2.818  | ug/l # | 84       |
| 56) Ethyl methacrylate        | 10.593 | 69   | 2480     | 2.300  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.875 | 76   | 3923     | 2.637  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.875  | 63   | 2552     | 9.307  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.922 | 43   | 5563     | 11.887 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.069 | 129  | 2321     | 2.355  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 1798     | 2.274  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.810 | 164  | 2835     | 2.740  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.604 | 112  | 8083     | 2.570  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131  | 2870     | 2.658  | ug/l   | 93       |
| 67) Ethyl Benzene             | 11.681 | 91   | 13599    | 2.357  | ug/l # | 87       |
| 68) m/p-Xylenes               | 11.781 | 106  | 10662    | 4.824  | ug/l   | 100      |
| 69) o-Xylene                  | 12.116 | 106  | 4768     | 2.361  | ug/l   | 95       |
| 70) Styrene                   | 12.128 | 104  | 8264     | 2.402  | ug/l   | 99       |
| 71) Bromoform                 | 12.292 | 173  | 1326     | 2.288  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.416 | 105  | 13362    | 2.465  | ug/l   | 95       |
| 74) N-amyl acetate            | 12.228 | 43   | 2642     | 2.206  | ug/l # | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.663 | 83   | 2603     | 2.764  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.710 | 75   | 1584m    | 2.430  | ug/l   |          |
| 77) Bromobenzene              | 12.692 | 156  | 2786     | 2.352  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.757 | 91   | 17369    | 2.584  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 9413     | 2.655  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.898 | 105  | 10042    | 2.266  | ug/l   | 91       |
| 81) trans-1,4-Dichloro-2-b... | 12.463 | 75   | 422m     | 1.622  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.940 | 91   | 9700     | 2.638  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.157 | 119  | 9662     | 2.459  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.204 | 105  | 10752    | 2.466  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.339 | 105  | 15143    | 2.597  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.451 | 119  | 11982    | 2.459  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.451 | 146  | 6690     | 2.748  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 6835     | 2.873  | ug/l   | 88       |
| 89) n-Butylbenzene            | 13.781 | 91   | 11698    | 2.451  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.045 | 117  | 2264     | 2.461  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.822 | 146  | 5641     | 2.748  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 351      | 2.508  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.086 | 180  | 3728     | 2.692  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.198 | 225  | 2077     | 2.640  | ug/l   | 97       |
| 95) Naphthalene               | 15.322 | 128  | 7348     | 2.863  | ug/l # | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.510 | 180  | 3290     | 2.765  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091622\  
Data File : VD074335.D  
Acq On : 16 Sep 2022 17:43  
Operator : VA/SY  
Sample : MDL03 2.5PPB  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL03 2.5PPB

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 09/19/2022  
Supervised By :Mahesh Dadoda 09/19/2022

Quant Time: Sep 17 05:13:32 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D091622S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 17 05:13:14 2022  
Response via : Initial Calibration

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

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

