

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122222\  
 Data File : VX033550.D  
 Acq On : 22 Dec 2022 17:48  
 Operator : JC/MD  
 Sample : N4519-05  
 Misc : 5.00g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2022-07

Quant Time: Dec 23 05:06:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 23 04:40:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.763          | 114  | 235033     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055         | 117  | 206557     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 96974      | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368          | 65   | 58512      | 46.800   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 93.600%  |        |          |
| 7) Chloroethane-d5            | 1.672          | 69   | 48417      | 49.516   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 99.040%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.306          | 63   | 100639     | 50.416   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 100.840% |        |          |
| 21) 2-Butanone-d5             | 4.458          | 46   | 97097      | 106.912  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 106.910% |        |          |
| 24) Chloroform-d              | 5.062          | 84   | 153879     | 49.646   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 99.300%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.952          | 65   | 100691     | 52.394   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 104.780% |        |          |
| 32) Benzene-d6                | 5.976          | 84   | 304156     | 51.560   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 103.120% |        |          |
| 36) 1,2-Dichloropropane-d6    | 7.312          | 67   | 91495      | 53.088   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 106.180% |        |          |
| 41) Toluene-d8                | 8.647          | 98   | 291573     | 50.926   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.860% |        |          |
| 43) trans-1,3-Dichloroprop... | 8.952          | 79   | 42427      | 50.921   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 101.840% |        |          |
| 47) 2-Hexanone-d5             | 9.384          | 63   | 78047      | 110.466  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 110.470% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195         | 84   | 122644     | 51.897   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 103.800% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.323         | 152  | 109192     | 54.281   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 108.560% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166          | 85   | 1073       | 1.892    | ug/L # | 88       |
| 3) Chloromethane              | 1.294          | 50   | 1496       | 2.100    | ug/L   | 86       |
| 5) Vinyl chloride             | 1.374          | 62   | 2073       | 2.203    | ug/L # | 36       |
| 6) Bromomethane               | 1.618          | 94   | 1168       | 2.086    | ug/L   | 99       |
| 8) Chloroethane               | 1.691          | 64   | 1279       | 2.043    | ug/L # | 75       |
| 9) Trichlorofluoromethane     | 1.892          | 101  | 3123       | 2.005    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.325          | 101  | 3448       | 3.479    | ug/L # | 79       |
| 12) 1,1-Dichloroethene        | 2.325          | 96   | 3094       | 3.472    | ug/L # | 1        |
| 13) Acetone                   | 2.398          | 43   | 2955       | 5.065    | ug/L   | 98       |
| 14) Carbon disulfide          | 2.514          | 76   | 6112       | 2.254    | ug/L   | 96       |
| 15) Methyl Acetate            | 2.709          | 43   | 2327       | 1.995    | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.099          | 96   | 2586       | 1.959    | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.111          | 73   | 8104       | 1.937    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.605          | 63   | 4706       | 2.054    | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 4.489          | 96   | 3090       | 1.997    | ug/L   | 97       |
| 22) 2-Butanone                | 4.580          | 43   | 3997m      | 4.160    | ug/L   |          |
| 23) Bromochloromethane        | 4.904          | 128  | 1589       | 1.919    | ug/L   | 95       |
| 27) 1,2-Dichloroethane        | 6.098          | 62   | 4325       | 2.130    | ug/L # | 93       |
| 29) Cyclohexane               | 5.477          | 56   | 3658       | 1.812    | ug/L # | 89       |

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 MSVOA\_X  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2022-07

Quant Time: Dec 23 05:06:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 23 04:40:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 30) 1,1,1-Trichloroethane     | 5.385  | 97   | 4817     | 2.005 | ug/L # | 84       |
| 31) Carbon tetrachloride      | 5.672  | 117  | 4307     | 2.020 | ug/L   | 98       |
| 33) Benzene                   | 6.044  | 78   | 10723    | 1.953 | ug/L   | 100      |
| 35) Methylcyclohexane         | 7.385  | 83   | 4385     | 1.955 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 7.440  | 63   | 3012     | 2.225 | ug/L # | 85       |
| 38) Bromodichloromethane      | 7.824  | 83   | 4007     | 2.006 | ug/L   | 92       |
| 39) cis-1,3-Dichloropropene   | 8.372  | 75   | 4155     | 1.889 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 7067     | 4.215 | ug/L   | 98       |
| 42) Toluene                   | 8.720  | 91   | 12489    | 2.013 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 4086     | 1.979 | ug/L   | 93       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 2800     | 1.911 | ug/L   | 86       |
| 46) Tetrachloroethene         | 9.275  | 164  | 2732     | 2.115 | ug/L   | 87       |
| 49) Dibromochloromethane      | 9.519  | 129  | 3387     | 1.979 | ug/L   | 86       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 3143     | 1.987 | ug/L   | 99       |
| 51) Chlorobenzene             | 10.079 | 112  | 8387     | 2.037 | ug/L   | 99       |
| 52) Ethylbenzene              | 10.195 | 91   | 13387    | 1.969 | ug/L   | 98       |
| 53) m,p-Xylene                | 10.305 | 106  | 5140     | 1.896 | ug/L   | 99       |
| 54) o-Xylene                  | 10.646 | 106  | 4973     | 1.876 | ug/L   | 96       |
| 55) Styrene                   | 10.659 | 104  | 7941     | 1.777 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 4977     | 2.323 | ug/L   | 98       |
| 59) Bromoform                 | 10.799 | 173  | 2252     | 1.994 | ug/L   | 97       |
| 60) Isopropylbenzene          | 10.963 | 105  | 13055    | 2.036 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 3599     | 2.356 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 10339    | 1.898 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 10244    | 1.913 | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 5969     | 2.038 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 12.042 | 146  | 6349     | 2.143 | ug/L   | 91       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 6350     | 2.197 | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 12.939 | 75   | 891m     | 2.170 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 13.115 | 180  | 4065     | 2.074 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 3574     | 2.013 | ug/L   | 94       |
| 71) Naphthalene               | 13.780 | 128  | 10794    | 1.861 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 3648     | 2.059 | ug/L   | 97       |
| -----                         |        |      |          |       |        |          |

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

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