

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100521\  
 Data File : VY006310.D  
 Acq On : 05 Oct 2021 18:30  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.00G/10ML/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

apatel  
 10/14/2021 10:04:36 AM

Quant Time: Oct 06 04:34:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYL100521SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 06 04:20:45 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.697  | 114   | 192993   | 25.00    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.489 | 117   | 182941   | 25.00    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 88663    | 25.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.247  | 65    | 94465    | 28.16    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 112.64%  |
| 7) Chloroethane-d5            | 2.765  | 69    | 74214    | 29.89    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 119.56%  |
| 11) 1,1-Dichloroethene-d2     | 3.857  | 63    | 119652   | 21.82    | ug/L   | -0.01    |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 87.28%   |
| 21) 2-Butanone-d5             | 6.899  | 46    | 52090    | 58.24    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 116.48%  |
| 24) Chloroform-d              | 7.484  | 84    | 122657   | 25.23    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 100.92%  |
| 26) 1,2-Dichloroethane-d4     | 8.149  | 65    | 87007    | 27.25    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 109.00%  |
| 32) Benzene-d6                | 8.118  | 84    | 261552   | 25.98    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 103.92%  |
| 36) 1,2-Dichloropropane-d6    | 9.124  | 67    | 76156    | 25.78    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 103.12%  |
| 41) Toluene-d8                | 10.185 | 98    | 242957   | 25.34    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 101.36%  |
| 43) trans-1,3-Dichloroprop... | 10.441 | 79    | 39758    | 25.87    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 103.48%  |
| 47) 2-Hexanone-d5             | 10.788 | 63    | 36481    | 55.84    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 111.68%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.562 | 84    | 61019    | 26.45    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 105.80%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.721 | 152   | 83541    | 27.31    | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 109.24%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.906  | 85    | 3459     | 0.96     | ug/L   | 98       |
| 3) Chloromethane              | 2.119  | 50    | 3587     | 1.02     | ug/L   | 95       |
| 5) Vinyl chloride             | 2.259  | 62    | 4484     | 1.09     | ug/L # | 70       |
| 6) Bromomethane               | 2.662  | 94    | 2229     | 1.19     | ug/L   | 90       |
| 8) Chloroethane               | 2.808  | 64    | 2423     | 1.04     | ug/L   | 87       |
| 9) Trichlorofluoromethane     | 3.137  | 101   | 4977     | 0.98     | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 3.875  | 96    | 3278     | 1.32     | ug/L # | 1        |
| 13) Acetone                   | 3.948  | 43    | 2133     | 2.09     | ug/L   | 95       |
| 14) Carbon disulfide          | 4.198  | 76    | 8701     | 0.97     | ug/L # | 94       |
| 15) Methyl Acetate            | 4.497  | 43    | 1854m    | 1.16     | ug/L   |          |
| 16) Methylene chloride        | 4.728  | 84    | 10784    | 3.17     | ug/L   | 90       |
| 17) trans-1,2-Dichloroethene  | 5.228  | 96    | 2361     | 0.90     | ug/L # | 77       |
| 18) Methyl tert-butyl Ether   | 5.241  | 73    | 6206     | 0.91     | ug/L # | 56       |
| 19) 1,1-Dichloroethane        | 6.027  | 63    | 4433     | 0.94     | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 6.990  | 96    | 2528m    | 0.92     | ug/L   |          |
| 22) 2-Butanone                | 6.990  | 43    | 2273     | 2.00     | ug/L   | 93       |
| 23) Bromochloromethane        | 7.344  | 128   | 1135     | 0.91     | ug/L # | 82       |
| 25) Chloroform                | 7.515  | 83    | 12832    | 2.47     | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 8.240  | 62    | 3640     | 0.99     | ug/L   | 96       |

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Quant Time: Oct 06 04:34:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMLYM100521SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 06 04:20:45 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 29) Cyclohexane               | 7.789  | 56   | 3712     | 0.79 | ug/L   | 92       |
| 30) 1,1,1-Trichloroethane     | 7.710  | 97   | 4185     | 0.90 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 7.911  | 117  | 3681     | 0.88 | ug/L   | 97       |
| 33) Benzene                   | 8.167  | 78   | 9781     | 0.88 | ug/L   | 100      |
| 34) Trichloroethene           | 8.947  | 95   | 2656     | 0.94 | ug/L   | 90       |
| 35) Methylcyclohexane         | 9.185  | 83   | 3513     | 0.71 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 9.228  | 63   | 2372     | 0.89 | ug/L # | 93       |
| 38) Bromodichloromethane      | 9.502  | 83   | 3213     | 0.88 | ug/L   | 92       |
| 39) cis-1,3-Dichloropropene   | 9.929  | 75   | 3620     | 0.85 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 10.075 | 43   | 4224     | 1.97 | ug/L   | 99       |
| 42) Toluene                   | 10.246 | 91   | 14049    | 1.16 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 10.465 | 75   | 5565m    | 1.39 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 10.642 | 97   | 1870     | 0.95 | ug/L   | 99       |
| 46) Tetrachloroethene         | 10.721 | 164  | 1949     | 0.83 | ug/L   | 91       |
| 48) 2-Hexanone                | 10.837 | 43   | 3026     | 1.81 | ug/L   | 93       |
| 49) Dibromochloromethane      | 10.983 | 129  | 2395     | 0.97 | ug/L   | 81       |
| 50) 1,2-Dibromoethane         | 11.093 | 107  | 1746     | 0.95 | ug/L # | 95       |
| 51) Chlorobenzene             | 11.514 | 112  | 6351     | 0.87 | ug/L   | 93       |
| 52) Ethylbenzene              | 11.593 | 91   | 10319    | 0.80 | ug/L   | 97       |
| 53) m,p-Xylene                | 11.703 | 106  | 4303     | 0.87 | ug/L   | 76       |
| 54) o-Xylene                  | 12.032 | 106  | 4008     | 0.85 | ug/L   | 95       |
| 55) Styrene                   | 12.044 | 104  | 6658     | 0.81 | ug/L   | 87       |
| 57) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 2348     | 1.09 | ug/L # | 97       |
| 59) Bromoform                 | 12.209 | 173  | 1398     | 0.93 | ug/L # | 92       |
| 60) Isopropylbenzene          | 12.331 | 105  | 9406     | 0.79 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 12.636 | 75   | 1719     | 0.99 | ug/L   | 92       |
| 62) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 7719     | 0.79 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 7660     | 0.80 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 13.367 | 146  | 4770     | 0.89 | ug/L   | 92       |
| 65) 1,4-Dichlorobenzene       | 13.446 | 146  | 5021     | 0.93 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 13.739 | 146  | 4820     | 0.99 | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 14.361 | 75   | 507m     | 1.21 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 14.501 | 180  | 3249     | 0.86 | ug/L   | 95       |
| 70) 1,2,4-trichlorobenzene    | 15.007 | 180  | 2531     | 0.83 | ug/L   | 98       |
| 71) Naphthalene               | 15.233 | 128  | 5353     | 0.89 | ug/L # | 78       |
| 72) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 2396     | 0.90 | ug/L   | 97       |

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

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