

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042722\  
 Data File : VD072715.D  
 Acq On : 27 Apr 2022 13:56  
 Operator : VA/SY  
 Sample : VSTDICC100  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Quant Time: Apr 27 14:10:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D042722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 27 13:58:15 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

| Compound                     | R.T.           | QIon | Response             | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|----------|--------|----------|
| -----                        |                |      |                      |          |        |          |
| Internal Standards           |                |      |                      |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 357441               | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 615383               | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 577923               | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 270325               | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 452925               | 105.346  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 210.700%# |          |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 418809               | 91.347   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 182.700%# |          |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 1606730              | 100.721  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 201.440%# |          |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 572928               | 91.659   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 183.320%# |          |        |          |
| Target Compounds             |                |      |                      |          |        |          |
|                              |                |      |                      |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 489639               | 164.036  | ug/l   | 96       |
| 3) Chloromethane             | 2.215          | 50   | 539847               | 187.660  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 493510               | 170.813  | ug/l   | 97       |
| 5) Bromomethane              | 2.756          | 94   | 315495               | 150.390  | ug/l   | 94       |
| 6) Chloroethane              | 2.915          | 64   | 295662               | 149.120  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.274          | 101  | 814418               | 133.909  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 225958               | 122.539  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 471441               | 118.332  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 552241               | 167.230  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 133266               | 549.801  | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 438259               | 137.694  | ug/l   | 96       |
| 13) Acrolein                 | 3.926          | 56   | 167740               | 1122.888 | ug/l   | 95       |
| 14) Allyl chloride           | 4.715          | 41   | 755696               | 145.981  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.415          | 53   | 511549               | 556.223  | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 400254               | 496.724  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 1454680              | 226.225  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.715          | 43   | 248559               | 107.406  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 1052753              | 113.346  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.962          | 84   | 578997               | 115.629  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 515422               | 143.879  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.362          | 45   | 1563067              | 121.448  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.303          | 43   | 4345474              | 686.658  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 906264               | 117.932  | ug/l   | 99       |
| 25) 2-Butanone               | 7.209          | 43   | 630905               | 561.843  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 784123               | 116.493  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 571611               | 119.669  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.544          | 49   | 360714               | 108.259  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 422188               | 614.778  | ug/l   | 96       |
| 30) Chloroform               | 7.709          | 83   | 936893               | 109.538  | ug/l   | 96       |
| 31) Cyclohexane              | 7.985          | 56   | 846485               | 148.489  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 839350               | 116.719  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 722292               | 131.771  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 292433               | 114.132  | ug/l # | 98       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 731678               | 116.057  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.350          | 83   | 885918               | 147.492  | ug/l   | 99       |
| 40) Benzene                  | 8.350          | 78   | 2009322              | 123.372  | ug/l   | 100      |

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 ALS Vial : 7 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D042722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 27 13:58:15 2022  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 177350   | 124.396  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 586389   | 116.291  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 578852   | 118.481  | ug/l # | 96       |
| 44) Trichloroethene           | 9.108  | 130  | 529399   | 116.127  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 508872   | 112.045  | ug/l   | 99       |
| 46) Dibromomethane            | 9.467  | 93   | 270055   | 112.195  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.656  | 83   | 724417   | 106.120  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.450  | 41   | 304561   | 126.702  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 56592    | 1968.092 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 1458068  | 559.047  | ug/l   | 96       |
| 52) Toluene                   | 10.397 | 92   | 1281983  | 119.402  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 671481   | 112.763  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 775203   | 110.069  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 364580   | 101.522  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 471939   | 115.735  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 643767   | 107.415  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 1183012  | 634.147  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.973 | 43   | 989878   | 558.261  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.132 | 129  | 455845   | 98.891   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 350626   | 108.335  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 417922   | 114.591  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.661 | 112  | 1328373  | 106.819  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 491845   | 99.369   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 2485848  | 114.783  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 1892247  | 229.784  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 900877   | 113.321  | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 1519615  | 108.919  | ug/l   | 99       |
| 71) Bromoform                 | 12.350 | 173  | 248118   | 93.851   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 2346801  | 112.233  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 555047   | 120.389  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 385104   | 94.160   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 298581m  | 101.080  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 509621   | 107.022  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 2912463  | 114.731  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 1644722  | 110.616  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1973927  | 109.752  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 131657   | 110.706  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 1712173  | 109.939  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.208 | 119  | 1675358  | 108.303  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 1934980  | 109.560  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 2516683  | 108.441  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 2065597  | 108.488  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 1003237  | 102.187  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 986737   | 99.754   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.826 | 91   | 2033064  | 111.975  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 400210   | 102.338  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 864425   | 100.052  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 64112    | 105.281  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 524687   | 98.694   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 282602   | 95.855   | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 993684   | 95.625   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 448374   | 96.441   | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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