

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061223\  
 Data File : VD076395.D  
 Acq On : 12 Jun 2023 15:48  
 Operator : KP/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD061223

Quant Time: Jun 13 02:06:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D061223S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 13 02:01:34 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 06/13/2023  
 Supervised By :Mahesh Dadoda 06/13/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 292171     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 499251     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 442834     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 208313     | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 164891     | 48.861   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.720%  |       |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 165741     | 51.365   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 102.740% |       |          |
| 50) Toluene-d8               | 10.269         | 98   | 613133     | 50.142   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.280% |       |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 218821     | 52.163   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 104.320% |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 139694     | 53.532   | ug/l  | 97       |
| 3) Chloromethane             | 2.146          | 50   | 256536     | 51.917   | ug/l  | 98       |
| 4) Vinyl Chloride            | 2.275          | 62   | 261930     | 55.398   | ug/l  | 100      |
| 5) Bromomethane              | 2.681          | 94   | 135105     | 54.532   | ug/l  | 100      |
| 6) Chloroethane              | 2.828          | 64   | 155889     | 54.750   | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.164          | 101  | 260529     | 54.757   | ug/l  | 100      |
| 8) Diethyl Ether             | 3.587          | 74   | 88336      | 51.679   | ug/l  | 69       |
| 9) 1,1,2-Trichlorotrifluo... | 3.952          | 101  | 158326     | 55.344   | ug/l  | 96       |
| 10) Methyl Iodide            | 4.152          | 142  | 195059     | 53.024   | ug/l  | 91       |
| 11) Tert butyl alcohol       | 5.052          | 59   | 69524      | 246.443  | ug/l  | # 93     |
| 12) 1,1-Dichloroethene       | 3.928          | 96   | 155481     | 53.293   | ug/l  | # 77     |
| 13) Acrolein                 | 3.793          | 56   | 72146      | 222.951  | ug/l  | 98       |
| 14) Allyl chloride           | 4.552          | 41   | 290078     | 50.840   | ug/l  | # 85     |
| 15) Acrylonitrile            | 5.252          | 53   | 219234     | 252.078  | ug/l  | 99       |
| 16) Acetone                  | 4.017          | 43   | 219052     | 295.272  | ug/l  | # 77     |
| 17) Carbon Disulfide         | 4.264          | 76   | 448184     | 53.467   | ug/l  | 98       |
| 18) Methyl Acetate           | 4.558          | 43   | 166414     | 49.201   | ug/l  | # 83     |
| 19) Methyl tert-butyl Ether  | 5.311          | 73   | 423768     | 52.348   | ug/l  | 96       |
| 20) Methylene Chloride       | 4.793          | 84   | 195986     | 50.726   | ug/l  | # 73     |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 174930     | 51.596   | ug/l  | # 80     |
| 22) Diisopropyl ether        | 6.216          | 45   | 599457     | 51.610   | ug/l  | # 91     |
| 23) Vinyl Acetate            | 6.152          | 43   | 1276059m   | 255.796  | ug/l  |          |
| 24) 1,1-Dichloroethane       | 6.105          | 63   | 337835     | 52.327   | ug/l  | 95       |
| 25) 2-Butanone               | 7.081          | 43   | 306542     | 264.192  | ug/l  | # 74     |
| 26) 2,2-Dichloropropane      | 7.069          | 77   | 302847     | 52.098   | ug/l  | 93       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 209716     | 51.961   | ug/l  | 83       |
| 28) Bromochloromethane       | 7.422          | 49   | 91344      | 51.276   | ug/l  | # 69     |
| 29) Tetrahydrofuran          | 7.446          | 42   | 190835     | 257.795  | ug/l  | # 75     |
| 30) Chloroform               | 7.593          | 83   | 333456     | 51.821   | ug/l  | 97       |
| 31) Cyclohexane              | 7.875          | 56   | 282406     | 52.302   | ug/l  | # 82     |
| 32) 1,1,1-Trichloroethane    | 7.787          | 97   | 297474     | 54.131   | ug/l  | 98       |
| 36) 1,1-Dichloropropene      | 8.005          | 75   | 253110     | 53.742   | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.169          | 43   | 130699     | 52.760   | ug/l  | # 91     |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 244912     | 56.009   | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.269          | 83   | 303411     | 55.949   | ug/l  | # 89     |
| 40) Benzene                  | 8.252          | 78   | 721192     | 52.673   | ug/l  | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 68874    | 43.461   | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 206225   | 50.579   | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 270638   | 52.108   | ug/l # | 83       |
| 44) Trichloroethene           | 9.028  | 130  | 200542   | 54.030   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.305  | 63   | 193374   | 53.138   | ug/l   | 99       |
| 46) Dibromomethane            | 9.387  | 93   | 103744   | 51.658   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.581  | 83   | 261655   | 52.595   | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.381  | 41   | 127898   | 51.378   | ug/l # | 69       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 25775    | 1081.722 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 673394   | 261.041  | ug/l # | 83       |
| 52) Toluene                   | 10.334 | 92   | 455491   | 52.624   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.552 | 75   | 268654   | 52.798   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 306106   | 52.312   | ug/l # | 77       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 140553   | 52.397   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 195432   | 52.461   | ug/l # | 68       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 244617   | 52.421   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 367895   | 242.448  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.922 | 43   | 486994   | 269.321  | ug/l   | 80       |
| 60) Dibromochloromethane      | 11.075 | 129  | 176851   | 53.284   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 135789   | 52.177   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 163414   | 53.752   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.604 | 112  | 488732   | 53.244   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 181398   | 52.852   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 909101   | 53.773   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.793 | 106  | 685490   | 107.162  | ug/l   | 87       |
| 69) o-Xylene                  | 12.122 | 106  | 328679   | 53.488   | ug/l   | 88       |
| 70) Styrene                   | 12.134 | 104  | 557874   | 53.212   | ug/l # | 93       |
| 71) Bromoform                 | 12.298 | 173  | 107148   | 53.523   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.422 | 105  | 861355   | 54.675   | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 256923   | 53.477   | ug/l # | 82       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 162473   | 52.226   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 92796m   | 47.649   | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 199160   | 53.581   | ug/l   | 84       |
| 78) n-propylbenzene           | 12.763 | 91   | 1055790  | 54.981   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 582397   | 53.596   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 712001   | 54.147   | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 54384    | 49.999   | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 615102   | 54.054   | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 614650   | 54.470   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 706517   | 54.381   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 918282   | 55.290   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 778200   | 55.645   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 393401   | 54.688   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 386938   | 54.429   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.787 | 91   | 753349   | 56.067   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 142068   | 55.048   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 340251   | 53.782   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 25471    | 49.841   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 232774   | 54.974   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 119628   | 56.157   | ug/l   | 99       |
| 95) Naphthalene               | 15.334 | 128  | 452446   | 53.212   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 201023   | 54.969   | ug/l   | 99       |

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ALS Vial : 10 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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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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