

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081123\  
 Data File : VY015059.D  
 Acq On : 11 Aug 2023 16:14  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 15 13:39:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080723S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 07:44:56 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/14/2023  
 Supervised By : Mahesh Dadoda 08/15/2023

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 291888     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 471382     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.483         | 117  | 423776     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 219752     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130          | 65   | 111827     | 31.609  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 63.220% |        |          |
| 35) Dibromofluoromethane     | 7.710          | 113  | 112470     | 37.311  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 74.620% |        |          |
| 50) Toluene-d8               | 10.173         | 98   | 340938     | 29.715  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 59.440% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 150387     | 36.983  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 73.960% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 61778      | 37.211  | ug/l   | 100      |
| 3) Chloromethane             | 2.107          | 50   | 76012      | 33.090  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.241          | 62   | 97973      | 34.613  | ug/l   | 97       |
| 5) Bromomethane              | 2.631          | 94   | 73853      | 39.890  | ug/l   | 99       |
| 6) Chloroethane              | 2.778          | 64   | 74317      | 38.026  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 173145     | 38.709  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.521          | 74   | 67853      | 41.109  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 107025     | 40.419  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.076          | 142  | 102292     | 37.365  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 146782     | 171.914 | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 86129      | 37.331  | ug/l   | 95       |
| 13) Acrolein                 | 3.717          | 56   | 16070      | 55.327  | ug/l   | 99       |
| 14) Allyl chloride           | 4.466          | 41   | 154080     | 40.104  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.149          | 53   | 232116     | 230.187 | ug/l   | 99       |
| 16) Acetone                  | 3.936          | 43   | 311797     | 282.633 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.180          | 76   | 127577     | 25.010  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.466          | 43   | 173184     | 43.108  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 393317     | 45.060  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.698          | 84   | 134597     | 24.622  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.204          | 96   | 97489      | 37.071  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.106          | 45   | 405657     | 45.330  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.045          | 43   | 1212373    | 225.367 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.003          | 63   | 214400     | 42.238  | ug/l   | 97       |
| 25) 2-Butanone               | 6.978          | 43   | 405008     | 256.319 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 219806     | 42.795  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.972          | 96   | 141199     | 42.427  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.326          | 49   | 121829     | 53.241  | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 215006     | 232.038 | ug/l   | 92       |
| 30) Chloroform               | 7.496          | 83   | 248589     | 45.083  | ug/l   | 96       |
| 31) Cyclohexane              | 7.777          | 56   | 133629     | 35.495  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 215059     | 44.256  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 147960     | 39.536  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.063          | 43   | 139379     | 46.920  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 182337     | 43.339  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.179          | 83   | 161923     | 36.383  | ug/l   | 92       |
| 40) Benzene                  | 8.155          | 78   | 456621     | 41.436  | ug/l   | 99       |

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 ALS Vial : 17 Sample Multiplier: 1

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Manual Integrations  
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 Quant Title : SW846 8260  
 QLast Update : Tue Aug 08 07:44:56 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 77265m   | 53.522  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 169187   | 44.106  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 258899   | 46.910  | ug/l   | 98       |
| 44) Trichloroethene           | 8.935  | 130  | 132103   | 41.778  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 130299   | 44.490  | ug/l   | 100      |
| 46) Dibromomethane            | 9.301  | 93   | 83458    | 44.235  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.490  | 83   | 204265   | 47.015  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 111314   | 45.968  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.289  | 88   | 31838    | 907.240 | ug/l # | 49       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 819046   | 263.340 | ug/l   | 95       |
| 52) Toluene                   | 10.240 | 92   | 301981   | 42.583  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 209294   | 46.258  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 218471   | 44.693  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 127877   | 46.634  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.502 | 69   | 185906   | 47.347  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 207691   | 45.779  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 306620   | 165.156 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.825 | 43   | 591343   | 257.377 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.977 | 129  | 157524   | 48.246  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 119849   | 45.790  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 145350   | 45.597  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 363440   | 45.197  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 152841   | 48.507  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.587 | 91   | 625970   | 44.357  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697 | 106  | 474707   | 87.932  | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 237878   | 45.031  | ug/l   | 99       |
| 70) Styrene                   | 12.038 | 104  | 418738   | 46.383  | ug/l   | 98       |
| 71) Bromoform                 | 12.203 | 173  | 107703   | 49.590  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 654089   | 44.279  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 236824   | 46.923  | ug/l # | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 168797   | 46.758  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 120352m  | 45.707  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 159114   | 44.406  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.666 | 91   | 774126   | 43.815  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 451076   | 44.796  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 550475   | 45.220  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 56035    | 46.882  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 465519   | 44.720  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.069 | 119  | 514817   | 46.230  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 553777   | 45.405  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 747261   | 45.721  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 629335   | 46.518  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 323719   | 46.156  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 323846   | 46.300  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 594015   | 46.731  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.959 | 117  | 123304   | 46.933  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 304456   | 47.035  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 34279    | 48.633  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 201578   | 48.666  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 109356   | 48.687  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 491005   | 50.380  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 182527   | 48.683  | ug/l   | 99       |

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

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

