

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071023\  
 Data File : VY014612.D  
 Acq On : 10 Jul 2023 12:55  
 Operator : SY/MD  
 Sample : 03375-05MS  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-2(8-10)MS

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/11/2023  
 Supervised By :Mahesh Dadoda 07/11/2023

Quant Time: Jul 11 03:16:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y063023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 305228     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 439341     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 389895     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 197141     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 146177     | 48.142   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 96.280%  |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 144192     | 53.296   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 106.600% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 538662     | 50.365   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.740% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 177942     | 47.914   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 95.820%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 109196     | 49.941   | ug/l   | 95       |
| 3) Chloromethane             | 2.107          | 50   | 163028     | 46.119   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.247          | 62   | 204291     | 50.138   | ug/l   | 96       |
| 5) Bromomethane              | 2.644          | 94   | 143714     | 45.486   | ug/l   | 99       |
| 6) Chloroethane              | 2.784          | 64   | 130664     | 49.804   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 240183     | 48.535   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.522          | 74   | 86079      | 45.939   | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 138707     | 46.937   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.082          | 142  | 177163     | 52.535   | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 91703      | 167.972  | ug/l # | 82       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 136703     | 47.750   | ug/l   | 85       |
| 13) Acrolein                 | 3.723          | 56   | 53239      | 131.961  | ug/l   | 99       |
| 14) Allyl chloride           | 4.473          | 41   | 184699     | 42.803   | ug/l # | 87       |
| 15) Acrylonitrile            | 5.155          | 53   | 220347     | 204.847  | ug/l   | 99       |
| 16) Acetone                  | 3.942          | 43   | 229720     | 242.262  | ug/l # | 84       |
| 17) Carbon Disulfide         | 4.186          | 76   | 381267     | 43.701   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.473          | 43   | 203980     | 47.256   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 377633     | 45.896   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 168158     | 49.015   | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 144790     | 44.680   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.119          | 45   | 415219     | 46.699   | ug/l # | 87       |
| 23) Vinyl Acetate            | 6.058          | 43   | 1010422    | 196.419  | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 256159     | 45.892   | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 299371     | 213.223  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 224456     | 47.178   | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 170735     | 46.446   | ug/l   | 91       |
| 28) Bromochloromethane       | 7.332          | 49   | 114831     | 48.993   | ug/l # | 82       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 191400     | 211.346  | ug/l # | 87       |
| 30) Chloroform               | 7.503          | 83   | 272124     | 46.735   | ug/l   | 94       |
| 31) Cyclohexane              | 7.783          | 56   | 200778     | 42.148   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 234258     | 47.068   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 198866     | 47.998   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.070          | 43   | 120102     | 42.269   | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 210168     | 48.593   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 209908     | 42.386   | ug/l   | 94       |
| 40) Benzene                  | 8.161          | 78   | 588203     | 46.900   | ug/l   | 98       |

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 MSVOA\_Y  
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 SB-2(8-10)MS

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 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 56420m   | 40.645  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 176249   | 47.812  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 214466   | 44.539  | ug/l # | 90       |
| 44) Trichloroethene           | 8.935  | 130  | 167457   | 47.894  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 153860   | 47.822  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 93472    | 47.722  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.496  | 83   | 210110   | 48.685  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 101516   | 46.361  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 30917    | 883.950 | ug/l # | 61       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 638234   | 223.884 | ug/l   | 90       |
| 52) Toluene                   | 10.240 | 92   | 370766   | 46.978  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 219199   | 47.497  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 242892   | 47.171  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 136384   | 47.853  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 184760   | 47.656  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 220488   | 47.480  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 485844   | 258.675 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 476730   | 231.506 | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.984 | 129  | 161978   | 48.502  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 132612   | 47.660  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.715 | 164  | 181795   | 52.159  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 401192   | 48.284  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 161719   | 51.208  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 692152   | 48.848  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.697 | 106  | 542968   | 96.604  | ug/l   | 95       |
| 69) o-Xylene                  | 12.026 | 106  | 258373   | 48.468  | ug/l   | 95       |
| 70) Styrene                   | 12.044 | 104  | 450305   | 49.097  | ug/l   | 96       |
| 71) Bromoform                 | 12.203 | 173  | 120452   | 50.204  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.325 | 105  | 661505   | 51.235  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 170271   | 43.696  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 168324   | 50.802  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 117063m  | 50.603  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 184493   | 52.317  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.666 | 91   | 797516   | 50.637  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.752 | 91   | 454781   | 50.175  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 552707   | 50.566  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 57180    | 48.110  | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 470327   | 49.531  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 477086   | 49.665  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 548984   | 50.333  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.252 | 105  | 677276   | 47.779  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 575257   | 48.223  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 336511   | 48.805  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 336899   | 48.755  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.697 | 91   | 499146   | 45.276  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 112709   | 47.698  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 307187   | 49.185  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 29485    | 48.607  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 179797   | 44.571  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 81980    | 33.066  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 1989681  | 231.831 | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 165227   | 44.953  | ug/l   | 98       |

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

