

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061323\  
 Data File : VY014134.D  
 Acq On : 13 Jun 2023 12:41  
 Operator : KP/MD  
 Sample : VY0613SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0613SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 06/14/2023  
 Supervised By :Mahesh Dadoda 06/14/2023

Quant Time: Jun 14 01:33:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 197321     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 299263     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 281101     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 152979     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 126303     | 45.966   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 91.940%  |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 107810     | 50.799   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 101.600% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 375543     | 47.331   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 94.660%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 142187     | 50.447   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 100.900% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 51425      | 23.385   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 56754      | 20.354   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 55226      | 20.371   | ug/l   | 98       |
| 5) Bromomethane              | 2.650          | 94   | 47325      | 21.157   | ug/l   | 95       |
| 6) Chloroethane              | 2.790          | 64   | 36568      | 19.851   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 97714      | 22.186   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.528          | 74   | 28614      | 19.457   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 47709      | 21.464   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.088          | 142  | 52787      | 17.985   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 37116      | 104.778  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 44258      | 19.644   | ug/l   | 96       |
| 13) Acrolein                 | 3.729          | 56   | 17769      | 122.017  | ug/l   | 97       |
| 14) Allyl chloride           | 4.479          | 41   | 77099      | 18.879   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.168          | 53   | 72195      | 95.175   | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 71216      | 85.984   | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.192          | 76   | 133300     | 18.259   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.479          | 43   | 59414      | 18.481   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 129869     | 19.545   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.710          | 84   | 65316      | 22.747   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 50550      | 20.117   | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.112          | 45   | 159380     | 20.383   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.058          | 43   | 448509     | 97.217   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 93780      | 20.802   | ug/l   | 98       |
| 25) 2-Butanone               | 6.990          | 43   | 94905      | 93.086   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 88188      | 20.827   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 57644      | 20.506   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.332          | 49   | 38760      | 21.141   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 60556      | 93.667   | ug/l   | 99       |
| 30) Chloroform               | 7.502          | 83   | 102035     | 21.334   | ug/l   | 96       |
| 31) Cyclohexane              | 7.783          | 56   | 75203      | 20.431   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 91836      | 21.289   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 70973      | 21.450   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 42342      | 18.547   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 87243      | 22.849   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 80376      | 21.895   | ug/l   | 95       |
| 40) Benzene                  | 8.161          | 78   | 206575     | 20.996   | ug/l   | 98       |

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 ClientSampleId :  
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Manual Integrations  
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Quant Time: Jun 14 01:33:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.314  | 41   | 25673m   | 22.035  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 72719    | 20.901  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 79183    | 19.789  | ug/l # | 90       |
| 44) Trichloroethene           | 8.935  | 130  | 56548    | 21.512  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 52853    | 21.149  | ug/l   | 98       |
| 46) Dibromomethane            | 9.307  | 93   | 30998    | 20.151  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 77215    | 21.438  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 36554    | 19.587  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.319  | 88   | 6914     | 353.721 | ug/l # | 38       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 211534   | 97.308  | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 131833   | 21.615  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 77911    | 20.548  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 85329    | 20.626  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 42185    | 20.675  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 54971    | 19.533  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 72610    | 20.807  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 71367    | 78.874  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.831 | 43   | 149670   | 95.326  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.984 | 129  | 54589    | 20.904  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 40793    | 20.258  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 51015    | 21.292  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.514 | 112  | 140228   | 20.761  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 55298    | 20.815  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 248578   | 21.025  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 191296   | 42.066  | ug/l   | 99       |
| 69) o-Xylene                  | 12.026 | 106  | 91879    | 21.370  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 158160   | 21.554  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 37363    | 20.536  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 244649   | 20.964  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 69474    | 18.786  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 50803    | 19.482  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 39140m   | 19.501  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 62405    | 20.345  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 299797   | 21.032  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 169809   | 20.704  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 209454   | 20.961  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 17654    | 19.014  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 178512   | 20.539  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 178239   | 20.990  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 208877   | 21.117  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 265283   | 21.488  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 222686   | 21.076  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 122184   | 20.864  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 122506   | 20.762  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 205869   | 21.007  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 44253    | 21.019  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 109526   | 20.823  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 9730     | 19.594  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 67581    | 20.282  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 42956    | 22.330  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 125034   | 18.487  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 57969    | 19.253  | ug/l   | 96       |

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Quant Time: Jun 14 01:33:27 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Jun 09 18:07:13 2023  
Response via : Initial Calibration

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

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

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