

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010522\  
 Data File : VY007016.D  
 Acq On : 05 Jan 2022 13:21  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/06/2022  
 Supervised By : Mahesh Dadoda 01/06/2022

Quant Time: Jan 06 04:30:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010522S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 06 04:16:58 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 165131              | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 280254              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 253703              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 112789              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 110761              | 59.851  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 119.700% |         |       |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 103648              | 64.666  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 129.340% |         |       |          |
| 50) Toluene-d8               | 10.185         | 98   | 384452              | 58.754  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 117.500% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 142887              | 63.233  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 126.460% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 32641               | 21.603  | ug/l  | 100      |
| 3) Chloromethane             | 2.119          | 50   | 61594               | 33.762  | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.259          | 62   | 92194               | 43.616  | ug/l  | 100      |
| 5) Bromomethane              | 2.662          | 94   | 60119               | 43.281  | ug/l  | 100      |
| 6) Chloroethane              | 2.808          | 64   | 54704               | 44.092  | ug/l  | 100      |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 105943              | 38.799  | ug/l  | 100      |
| 8) Diethyl Ether             | 3.534          | 74   | 61757               | 62.599  | ug/l  | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 106674              | 65.552  | ug/l  | 100      |
| 10) Methyl Iodide            | 4.094          | 142  | 165680              | 86.367  | ug/l  | 100      |
| 11) Tert butyl alcohol       | 4.960          | 59   | 47951               | 298.845 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 110791              | 66.713  | ug/l  | 100      |
| 13) Acrolein                 | 3.735          | 56   | 14829               | 166.359 | ug/l  | 100      |
| 14) Allyl chloride           | 4.485          | 41   | 171144              | 56.229  | ug/l  | 100      |
| 15) Acrylonitrile            | 5.161          | 53   | 158731              | 307.678 | ug/l  | 100      |
| 16) Acetone                  | 3.948          | 43   | 115064              | 243.046 | ug/l  | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 327015              | 60.463  | ug/l  | 100      |
| 18) Methyl Acetate           | 4.479          | 43   | 103213              | 59.925  | ug/l  | 100      |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 201960              | 45.799  | ug/l  | 100      |
| 20) Methylene Chloride       | 4.716          | 84   | 150755              | 70.698  | ug/l  | 100      |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 120097              | 65.628  | ug/l  | 100      |
| 22) Diisopropyl ether        | 6.125          | 45   | 330012              | 55.099  | ug/l  | 100      |
| 23) Vinyl Acetate            | 6.064          | 43   | 1058285             | 291.962 | ug/l  | 100      |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 204266              | 61.580  | ug/l  | 100      |
| 25) 2-Butanone               | 6.990          | 43   | 170782              | 253.019 | ug/l  | 100      |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 149518              | 51.382  | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 133306              | 65.242  | ug/l  | 100      |
| 28) Bromochloromethane       | 7.338          | 49   | 80856               | 59.004  | ug/l  | 100      |
| 29) Tetrahydrofuran          | 7.350          | 42   | 134399              | 299.837 | ug/l  | 100      |
| 30) Chloroform               | 7.508          | 83   | 214590              | 64.209  | ug/l  | 100      |
| 31) Cyclohexane              | 7.789          | 56   | 193025              | 55.786  | ug/l  | 100      |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 188231              | 61.652  | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 169720              | 58.518  | ug/l  | 100      |
| 37) Ethyl Acetate            | 7.076          | 43   | 91249               | 55.235  | ug/l  | 100      |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 177209              | 58.120  | ug/l  | 100      |
| 39) Methylcyclohexane        | 9.185          | 83   | 221544              | 60.565  | ug/l  | 100      |
| 40) Benzene                  | 8.167          | 78   | 464913              | 57.060  | ug/l  | 100      |

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 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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Reviewed By : John Carlone 01/06/2022  
 Supervised By : Mahesh Dadoda 01/06/2022

Quant Time: Jan 06 04:30:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010522S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 06 04:16:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 52612m   | 49.889  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 141942   | 54.762  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.277  | 43   | 173833   | 55.002  | ug/l   | 100      |
| 44) Trichloroethene           | 8.941  | 130  | 129050   | 60.399  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 113908   | 56.809  | ug/l   | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 68822    | 63.133  | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.502  | 83   | 167472   | 60.271  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.295  | 41   | 82101    | 54.522  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.301  | 88   | 13365    | 995.130 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 439214   | 270.066 | ug/l   | 100      |
| 52) Toluene                   | 10.246 | 92   | 299000   | 58.799  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 180659   | 59.770  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 198932   | 59.910  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 94752    | 62.129  | ug/l   | 100      |
| 56) Ethyl methacrylate        | 10.514 | 69   | 139725   | 60.942  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 164524   | 60.050  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 295419   | 268.783 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 275952   | 244.866 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 116386   | 62.646  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 95714    | 65.469  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 105276   | 51.122  | ug/l   | 100      |
| 65) Chlorobenzene             | 11.520 | 112  | 312470   | 59.782  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 112470   | 58.716  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 578385   | 58.927  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 441053   | 118.279 | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106  | 206468   | 58.760  | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 354883   | 59.490  | ug/l   | 100      |
| 71) Bromoform                 | 12.209 | 173  | 70106    | 59.120  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 547922   | 64.068  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 150132   | 58.515  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 108625   | 69.071  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 78298m   | 66.432  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 122186   | 61.605  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.672 | 91   | 669017   | 63.609  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 382927   | 65.307  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 451691   | 63.351  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 43544    | 71.857  | ug/l # | 100      |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 394491   | 65.099  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 397982   | 64.823  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 444382   | 63.175  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 579895   | 63.066  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 474612   | 61.549  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 228192   | 58.627  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 230275   | 59.747  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.703 | 91   | 462527   | 62.707  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.965 | 117  | 93423    | 65.536  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 203353   | 59.605  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 19252    | 65.146  | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 123618   | 55.730  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 64017    | 45.932  | ug/l   | 100      |
| 95) Naphthalene               | 15.239 | 128  | 285468   | 63.151  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 107242   | 54.712  | ug/l   | 100      |

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ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/06/2022  
Supervised By :Mahesh Dadoda 01/06/2022

Quant Time: Jan 06 04:30:04 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010522S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 06 04:16:58 2022  
Response via : Initial Calibration

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

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

