

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
 Data File : VY016867.D  
 Acq On : 27 Dec 2023 10:37  
 Operator : SY/MD  
 Sample : VY1227SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1227SBS01

Quant Time: Dec 28 03:42:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/01/2024  
 Supervised By :Mahesh Dadoda 01/01/2024

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 138566              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 235154              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.501         | 117  | 204424              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 88985               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.154          | 65   | 73959               | 58.467  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 116.940% |         |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 76693               | 56.935  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 113.880% |         |        |          |
| 50) Toluene-d8               | 10.191         | 98   | 276481              | 56.938  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 113.880% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 89471               | 56.793  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 113.580% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.905          | 85   | 23891               | 20.175  | ug/l   | 96       |
| 3) Chloromethane             | 2.119          | 50   | 36653               | 20.137  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.259          | 62   | 43105               | 20.966  | ug/l   | 97       |
| 5) Bromomethane              | 2.655          | 94   | 31180               | 21.293  | ug/l   | 96       |
| 6) Chloroethane              | 2.802          | 64   | 29249               | 20.995  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 50596               | 21.125  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.533          | 74   | 16028               | 20.919  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.911          | 101  | 31814               | 21.654  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.106          | 142  | 25402               | 16.592  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 13094               | 126.249 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 26802               | 20.489  | ug/l   | 94       |
| 13) Acrolein                 | 3.734          | 56   | 11654               | 145.633 | ug/l   | 98       |
| 14) Allyl chloride           | 4.496          | 41   | 42744               | 21.333  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.173          | 53   | 39391               | 121.403 | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 50912               | 148.839 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.210          | 76   | 64207               | 18.039  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.496          | 43   | 29594               | 22.139  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 73202               | 21.748  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.734          | 84   | 35543               | 18.067  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 31862               | 21.356  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.136          | 45   | 104363              | 23.023  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.075          | 43   | 251230              | 117.184 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 60811               | 22.332  | ug/l   | 97       |
| 25) 2-Butanone               | 6.996          | 43   | 63387               | 134.593 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 51336               | 21.604  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 37121               | 21.619  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.350          | 49   | 22975               | 21.318  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 31209               | 121.192 | ug/l   | 97       |
| 30) Chloroform               | 7.520          | 83   | 63337               | 22.721  | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 48089               | 19.842  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.715          | 97   | 52937               | 21.634  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 45653               | 21.141  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.087          | 43   | 23225               | 25.092  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.910          | 117  | 45106               | 21.108  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.197          | 83   | 48611               | 19.497  | ug/l   | 99       |
| 40) Benzene                  | 8.173          | 78   | 136045              | 21.649  | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/01/2024  
 Supervised By : Mahesh Dadoda 01/01/2024

Quant Time: Dec 28 03:42:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 11298    | 22.990  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 37703    | 22.997  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.282  | 43   | 40729    | 22.656  | ug/l   | 99       |
| 44) Trichloroethene           | 8.953  | 130  | 33813    | 21.081  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.227  | 63   | 35284    | 22.383  | ug/l   | 100      |
| 46) Dibromomethane            | 9.313  | 93   | 18463    | 22.672  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.508  | 83   | 47957    | 22.343  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.300  | 41   | 21589    | 21.608  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 4001     | 506.197 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 113820   | 118.829 | ug/l   | 98       |
| 52) Toluene                   | 10.252 | 92   | 82017    | 21.779  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 43619    | 22.287  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 52273    | 22.143  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 26871    | 23.127  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 22100    | 21.631  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.800 | 76   | 45547    | 23.079  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 54475    | 99.114  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.843 | 43   | 88339    | 123.685 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.989 | 129  | 30376    | 22.600  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 23670    | 22.716  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.727 | 164  | 26632    | 20.972  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.526 | 112  | 86060    | 21.427  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 32275    | 21.358  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.599 | 91   | 153401   | 20.751  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.709 | 106  | 115739   | 42.398  | ug/l   | 100      |
| 69) o-Xylene                  | 12.038 | 106  | 51952    | 20.744  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 78827    | 21.271  | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 16818    | 22.323  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.337 | 105  | 145698   | 21.023  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.154 | 43   | 32078    | 22.055  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 31397    | 22.671  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.641 | 75   | 19748m   | 20.076  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 31979    | 21.152  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.678 | 91   | 180314   | 21.475  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.763 | 91   | 98924    | 21.291  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.824 | 105  | 118031   | 21.515  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.385 | 75   | 8575     | 20.472  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 102978   | 21.604  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.086 | 119  | 103082   | 21.602  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 115865   | 21.419  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.263 | 105  | 152183   | 21.532  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 123876   | 21.046  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 62232    | 21.062  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 62682    | 21.726  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.708 | 91   | 119765   | 21.285  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.970 | 117  | 26189    | 21.367  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 53813    | 21.379  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 3887     | 21.652  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 26695    | 19.987  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 16229    | 21.393  | ug/l   | 97       |
| 95) Naphthalene               | 15.245 | 128  | 46808    | 18.704  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 22710    | 19.965  | ug/l   | 99       |

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Manual Integrations  
APPROVED

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Quant Time: Dec 28 03:42:19 2023  
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Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

