

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032624\  
 Data File : VY017761.D  
 Acq On : 26 Mar 2024 11:08  
 Operator : SY/MD  
 Sample : VY0326SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0326SBS01

Quant Time: Mar 27 01:26:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032224S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 04:03:52 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/27/2024  
 Supervised By :Semsettin Yesilyurt 03/27/2024

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 167876              | 50.000  | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene      | 8.704          | 114  | 264552              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 230515              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 106127              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.155          | 65   | 74642               | 51.037  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.080% |         |        |          |
| 35) Dibromofluoromethane     | 7.734          | 113  | 81493               | 51.533  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 103.060% |         |        |          |
| 50) Toluene-d8               | 10.191         | 98   | 317446              | 52.450  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 104.900% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 96406               | 53.046  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 106.100% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 28963               | 19.984  | ug/l   | 100      |
| 3) Chloromethane             | 2.119          | 50   | 37813               | 20.140  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.260          | 62   | 45377               | 19.989  | ug/l   | 95       |
| 5) Bromomethane              | 2.656          | 94   | 38521               | 21.733  | ug/l   | 99       |
| 6) Chloroethane              | 2.802          | 64   | 30757               | 20.273  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 50277               | 21.013  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.540          | 74   | 15116               | 19.162  | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 34210               | 20.085  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.107          | 142  | 36164               | 17.369  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 10483               | 107.764 | ug/l # | 97       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 31987               | 19.965  | ug/l   | 97       |
| 13) Acrolein                 | 3.741          | 56   | 11877               | 101.288 | ug/l   | 99       |
| 14) Allyl chloride           | 4.497          | 41   | 39442               | 18.165  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.174          | 53   | 30956               | 94.729  | ug/l   | 98       |
| 16) Acetone                  | 3.961          | 43   | 24536               | 95.917  | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.210          | 76   | 91687               | 17.103  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.491          | 43   | 12245               | 19.012  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.235          | 73   | 65623               | 18.997  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.735          | 84   | 40645               | 21.848  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.241          | 96   | 34776               | 19.040  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.137          | 45   | 91904               | 19.440  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.076          | 43   | 255014              | 91.840  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 60362               | 19.425  | ug/l   | 99       |
| 25) 2-Butanone               | 7.003          | 43   | 36164               | 88.541  | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.997          | 77   | 51953               | 19.669  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.003          | 96   | 39364               | 19.053  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.350          | 49   | 24441               | 20.289  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.368          | 42   | 22876               | 86.619  | ug/l   | 93       |
| 30) Chloroform               | 7.521          | 83   | 63807               | 19.808  | ug/l   | 99       |
| 31) Cyclohexane              | 7.801          | 56   | 50749               | 17.545  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.716          | 97   | 54594               | 19.460  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 46407               | 18.995  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.088          | 43   | 17858               | 19.023  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.917          | 117  | 50336               | 19.677  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.197          | 83   | 56116               | 17.893  | ug/l   | 96       |
| 40) Benzene                  | 8.173          | 78   | 142960              | 19.549  | ug/l   | 99       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
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 Supervised By :Semsettin Yesilyurt 03/27/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 8904m    | 19.201  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 32917    | 18.792  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.283  | 43   | 31727    | 17.553  | ug/l # | 82       |
| 44) Trichloroethene           | 8.954  | 130  | 37971    | 19.851  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 32387    | 19.437  | ug/l   | 96       |
| 46) Dibromomethane            | 9.319  | 93   | 17516    | 18.865  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.508  | 83   | 46306    | 19.504  | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.301  | 41   | 14321    | 17.426  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 3634     | 402.232 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 81853    | 85.795  | ug/l   | 96       |
| 52) Toluene                   | 10.252 | 92   | 87751    | 19.418  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.478 | 75   | 40130    | 19.327  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 49441    | 19.492  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 24592    | 20.704  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 27641    | 17.418  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.801 | 76   | 39828    | 19.467  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 72864    | 93.493  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 54552    | 84.233  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.990 | 129  | 31481    | 19.815  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 21898    | 19.637  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.728 | 164  | 42919    | 20.133  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.526 | 112  | 98743    | 19.900  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 32868    | 19.835  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.599 | 91   | 162409   | 19.057  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.709 | 106  | 126790   | 38.353  | ug/l   | 97       |
| 69) o-Xylene                  | 12.038 | 106  | 58771    | 19.472  | ug/l   | 100      |
| 70) Styrene                   | 12.051 | 104  | 98000    | 19.509  | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 17343    | 19.873  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.337 | 105  | 153929   | 19.208  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 25185    | 16.896  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 22719    | 18.413  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 18690m   | 19.071  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 36103    | 19.788  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.678 | 91   | 188678   | 19.450  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 103678   | 19.489  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 122795   | 19.574  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 8020     | 18.910  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 108634   | 19.903  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 112709   | 19.854  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.130 | 105  | 123256   | 20.042  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.258 | 105  | 170229   | 20.007  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 137448   | 19.456  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 71625    | 19.373  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 70169    | 19.770  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 124636   | 19.501  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.971 | 117  | 28141    | 19.534  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 61441    | 20.061  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 2995     | 18.333  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 29428    | 19.835  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 20054    | 21.057  | ug/l   | 98       |
| 95) Naphthalene               | 15.245 | 128  | 42567    | 17.315  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 24726    | 20.185  | 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

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