

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101723\  
 Data File : VY015998.D  
 Acq On : 17 Oct 2023 12:06  
 Operator : SY/MD  
 Sample : VY1017SBS02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1017SBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/18/2023  
 Supervised By : Semsettin Yesilyurt 10/20/2023

Quant Time: Oct 18 06:05:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 13 13:13:02 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 194029     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 307684     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 289709     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 149991     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 100254     | 45.273   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 90.540%  |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 96210      | 49.669   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.340%  |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 369522     | 50.940   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 101.880% |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 128733     | 49.838   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 99.680%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 30063      | 18.517   | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 44026      | 14.211   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 42767      | 20.592   | ug/l   | 98       |
| 5) Bromomethane              | 2.662          | 94   | 28983      | 24.672   | ug/l   | 96       |
| 6) Chloroethane              | 2.796          | 64   | 23892      | 17.801   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 80565      | 22.870   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.540          | 74   | 25490      | 19.361   | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 42910      | 21.423   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.088          | 142  | 49511      | 21.496   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.137          | 59   | 90296m     | 70.283   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 40284      | 21.349   | ug/l   | 91       |
| 13) Acrolein                 | 3.753          | 56   | 40462      | 96.747   | ug/l   | 96       |
| 14) Allyl chloride           | 4.479          | 41   | 67382      | 22.099   | ug/l   | 91       |
| 15) Acrylonitrile            | 5.198          | 53   | 111678     | 96.290   | ug/l   | 99       |
| 16) Acetone                  | 3.997          | 43   | 124275     | 96.612   | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.186          | 76   | 115542     | 20.033   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.509          | 43   | 77056      | 17.270   | ug/l # | 91       |
| 19) Methyl tert-butyl Ether  | 5.247          | 73   | 126893     | 20.060   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.716          | 84   | 52006      | 18.565   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 45814      | 20.772   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.143          | 45   | 123992     | 19.583   | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.076          | 43   | 382304     | 91.779   | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 75534      | 20.050   | ug/l   | 98       |
| 25) 2-Butanone               | 7.033          | 43   | 159521     | 85.208   | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 62355      | 19.933   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 47718      | 19.241   | ug/l   | 92       |
| 28) Bromochloromethane       | 7.344          | 49   | 33357      | 19.841   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.387          | 42   | 106530     | 83.011   | ug/l   | 94       |
| 30) Chloroform               | 7.515          | 83   | 77741      | 19.882   | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 67606      | 19.179   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 69122      | 19.876   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 59385      | 20.318   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.106          | 43   | 53613m     | 11.889   | ug/l   |          |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 61790      | 20.074   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 71946      | 19.186   | ug/l   | 95       |
| 40) Benzene                  | 8.167          | 78   | 170391     | 20.149   | ug/l   | 99       |

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 ALS Vial : 6 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 VY1017SBS02

Quant Time: Oct 18 06:05:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 13 13:13:02 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/18/2023  
 Supervised By : Semsettin Yesilyurt 10/20/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.332  | 41   | 27345m   | 18.390  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 52090    | 19.197  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.295  | 43   | 86209    | 17.794  | ug/l   | 92       |
| 44) Trichloroethene           | 8.947  | 130  | 53831    | 20.656  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 44497    | 20.621  | ug/l   | 97       |
| 46) Dibromomethane            | 9.313  | 93   | 28857    | 19.025  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.502  | 83   | 62045    | 20.257  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.307  | 41   | 36920    | 17.253  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.374  | 88   | 20910m   | 494.329 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone      | 10.087 | 43   | 397895   | 111.442 | ug/l   | 91       |
| 52) Toluene                   | 10.252 | 92   | 111637   | 20.648  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 66123    | 19.254  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 74657    | 20.223  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 44100    | 20.421  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 66493    | 19.669  | ug/l   | 85       |
| 57) 1,3-Dichloropropane       | 10.801 | 76   | 73812    | 20.148  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 183426   | 123.644 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.843 | 43   | 346403   | 113.658 | ug/l   | 89       |
| 60) Dibromochloromethane      | 10.990 | 129  | 49423    | 20.125  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 47717    | 20.421  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.727 | 164  | 50501    | 19.996  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 121507   | 20.017  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 44126    | 19.637  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.599 | 91   | 209704   | 19.757  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 163356   | 39.881  | ug/l   | 96       |
| 69) o-Xylene                  | 12.038 | 106  | 78014    | 19.921  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 134276   | 20.147  | ug/l   | 96       |
| 71) Bromoform                 | 12.215 | 173  | 38132    | 19.927  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.337 | 105  | 205777   | 19.380  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.154 | 43   | 85296    | 19.884  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 61365    | 18.815  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 61266m   | 20.872  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 51671    | 19.385  | ug/l   | 89       |
| 78) n-propylbenzene           | 12.678 | 91   | 255215   | 19.766  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 141827   | 19.420  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 175458   | 19.890  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 24781    | 19.887  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 150734   | 20.082  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 149034   | 19.226  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 175319   | 19.799  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 228077   | 19.826  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 191603   | 19.931  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 101786   | 19.884  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 103746   | 20.070  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 179822   | 19.892  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.965 | 117  | 36301    | 19.702  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 96777    | 20.150  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 19279    | 20.664  | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 60994    | 19.321  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 31701    | 19.778  | ug/l   | 97       |
| 95) Naphthalene               | 15.245 | 128  | 198036   | 19.337  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 58461    | 19.317  | ug/l   | 98       |

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APPROVED

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Supervised By :Semsettin Yesilyurt 10/20/2023

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Quant Title : SW846 8260  
QLast Update : Fri Oct 13 13:13:02 2023  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

