

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102023\  
 Data File : VY016056.D  
 Acq On : 20 Oct 2023 10:42  
 Operator : SY/MD  
 Sample : VY1020SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1020SBS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2023  
 Supervised By :Mahesh Dadoda 10/23/2023

Quant Time: Oct 20 23:04:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 19 03:15:44 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 186886     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 303373     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 273122     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 141222     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 96979      | 45.657  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 91.320% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 89978      | 45.060  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 90.120% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 342572     | 47.237  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 94.480% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 122904     | 47.496  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 95.000% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 30352      | 19.651  | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 43561      | 22.335  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 46056      | 21.041  | ug/l   | 97       |
| 5) Bromomethane              | 2.650          | 94   | 30939      | 19.377  | ug/l   | 97       |
| 6) Chloroethane              | 2.790          | 64   | 27156      | 19.294  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 83790      | 25.154  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.528          | 74   | 27016      | 22.956  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.881          | 101  | 41512      | 21.664  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.076          | 142  | 45858      | 18.328  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.186          | 59   | 52410m     | 159.841 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 38831      | 21.658  | ug/l   | 90       |
| 13) Acrolein                 | 3.741          | 56   | 27151      | 112.606 | ug/l   | 90       |
| 14) Allyl chloride           | 4.466          | 41   | 58252      | 20.779  | ug/l # | 95       |
| 15) Acrylonitrile            | 5.186          | 53   | 89716      | 127.785 | ug/l   | 93       |
| 16) Acetone                  | 4.003          | 43   | 83581      | 106.152 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.180          | 76   | 109106     | 20.773  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.491          | 43   | 59494      | 21.953  | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 116337     | 20.114  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.704          | 84   | 56341      | 24.087  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 44879      | 21.495  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.125          | 45   | 126838     | 20.778  | ug/l   | 89       |
| 23) Vinyl Acetate            | 6.064          | 43   | 369583     | 97.601  | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 77776      | 21.476  | ug/l   | 93       |
| 25) 2-Butanone               | 7.009          | 43   | 125195     | 116.084 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 63332      | 19.437  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 49605      | 20.630  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.332          | 49   | 33175      | 21.420  | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.374          | 42   | 84602      | 129.597 | ug/l # | 90       |
| 30) Chloroform               | 7.509          | 83   | 81653      | 21.028  | ug/l   | 93       |
| 31) Cyclohexane              | 7.783          | 56   | 70230      | 21.124  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 74480      | 21.438  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 62108      | 20.674  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.088          | 43   | 41163m     | 19.008  | ug/l   |          |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 67953      | 21.281  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 77289      | 20.586  | ug/l   | 96       |
| 40) Benzene                  | 8.161          | 78   | 177965     | 21.018  | ug/l   | 98       |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Manual Integrations  
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Reviewed By : Semsettin Yesilyurt 10/23/2023  
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Quant Time: Oct 20 23:04:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 19 03:15:44 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 21737    | 19.350  | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 56707    | 20.791  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 81336    | 21.483  | ug/l # | 94       |
| 44) Trichloroethene           | 8.935  | 130  | 58693    | 24.722  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 44345    | 20.927  | ug/l   | 91       |
| 46) Dibromomethane            | 9.301  | 93   | 32214    | 22.899  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 66170    | 21.461  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 39508    | 22.924  | ug/l # | 77       |
| 49) 1,4-Dioxane               | 9.386  | 88   | 14255    | 636.366 | ug/l # | 36       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 385010   | 176.834 | ug/l   | 91       |
| 52) Toluene                   | 10.246 | 92   | 119038   | 21.675  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 70640    | 21.149  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 76962    | 21.138  | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 46044    | 23.824  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 69059    | 24.450  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 75042    | 22.888  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 163927   | 120.831 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.837 | 43   | 329666   | 199.015 | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.984 | 129  | 51176    | 21.895  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 47797    | 24.301  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 55296    | 26.110  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 128296   | 21.690  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 48094    | 21.572  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 226393   | 21.630  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 175143   | 42.912  | ug/l   | 95       |
| 69) o-Xylene                  | 12.032 | 106  | 81895    | 21.092  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 141919   | 21.445  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 38431    | 24.498  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 220350   | 20.859  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 85705    | 25.686  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 59677    | 22.555  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 49765m   | 24.888  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 54666    | 21.320  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 269088   | 21.148  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 150129   | 21.021  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 184288   | 21.061  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 22950    | 25.054  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 158866   | 21.313  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 159188   | 20.748  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 183069   | 21.069  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 243626   | 21.260  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 200855   | 20.974  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 106062   | 21.260  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 108030   | 21.507  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 189543   | 21.261  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 37872    | 20.746  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 97855    | 21.364  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 18193    | 36.122  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 63561    | 21.783  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 34316    | 21.652  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 195839   | 27.345  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 60120    | 22.556  | ug/l   | 99       |

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Quant Time: Oct 20 23:04:05 2023  
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Quant Title : SW846 8260  
QLast Update : Thu Oct 19 03:15:44 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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