

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091423\  
 Data File : VY015531.D  
 Acq On : 14 Sep 2023 13:47  
 Operator : SY/MD  
 Sample : VY0914SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0914SBS01

Quant Time: Sep 15 03:59:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 31 20:01:47 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/15/2023  
 Supervised By :Semsettin Yesilyurt 09/15/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 175413              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 296848              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 275989              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 141721              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 96478               | 51.307  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.620% |         |        |          |
| 35) Dibromofluoromethane     | 7.710          | 113  | 88021               | 51.481  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.960% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 294087              | 47.497  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 95.000%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 115948              | 50.443  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 100.880% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 28606               | 18.761  | ug/l   | 97       |
| 3) Chloromethane             | 2.107          | 50   | 42118               | 20.799  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.241          | 62   | 45595               | 19.344  | ug/l   | 98       |
| 5) Bromomethane              | 2.637          | 94   | 31100               | 18.544  | ug/l   | 98       |
| 6) Chloroethane              | 2.778          | 64   | 32360               | 20.887  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 69006               | 20.697  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.521          | 74   | 29005               | 25.456  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 39536               | 21.395  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.076          | 142  | 42928               | 19.782  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.924          | 59   | 84416m              | 197.666 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 36912               | 21.169  | ug/l   | 93       |
| 13) Acrolein                 | 3.729          | 56   | 30315               | 66.972  | ug/l   | 97       |
| 14) Allyl chloride           | 4.466          | 41   | 66382               | 23.910  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.161          | 53   | 99422               | 138.667 | ug/l   | 98       |
| 16) Acetone                  | 3.954          | 43   | 122534              | 156.120 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.180          | 76   | 92757               | 17.793  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.472          | 43   | 85932               | 30.228  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 146390              | 25.830  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.704          | 84   | 89970               | 33.196  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 43916               | 21.871  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.112          | 45   | 153053              | 25.207  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.051          | 43   | 480213              | 125.261 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 83783               | 23.869  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 166690              | 149.739 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 77011               | 25.832  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 54023               | 23.716  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.326          | 49   | 24344               | 22.617  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 98683               | 141.164 | ug/l   | 95       |
| 30) Chloroform               | 7.496          | 83   | 90855               | 24.623  | ug/l   | 98       |
| 31) Cyclohexane              | 7.777          | 56   | 64878               | 19.423  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 76535               | 23.222  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 60641               | 20.199  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 61022               | 26.354  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 65730               | 21.198  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.179          | 83   | 70075               | 18.540  | ug/l   | 95       |
| 40) Benzene                  | 8.155          | 78   | 190277              | 22.717  | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

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 ClientSampleId :  
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Manual Integrations  
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Reviewed By :Mahesh Dadoda 09/15/2023  
 Supervised By :Semsettin Yesilyurt 09/15/2023

Quant Time: Sep 15 03:59:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y082923S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 31 20:01:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 27782    | 25.587  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 65108    | 23.311  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 104365   | 26.066  | ug/l   | 98       |
| 44) Trichloroethene           | 8.935  | 130  | 52660    | 22.221  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 50358    | 23.849  | ug/l   | 95       |
| 46) Dibromomethane            | 9.301  | 93   | 33107    | 23.604  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 72677    | 24.230  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 45443    | 24.737  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.313  | 88   | 14018    | 538.067 | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 319845   | 137.440 | ug/l   | 94       |
| 52) Toluene                   | 10.240 | 92   | 120208   | 22.391  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 76965    | 24.144  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 82490    | 23.789  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 48136    | 25.471  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 71124    | 25.396  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 79924    | 24.568  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 109287   | 109.328 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 246970   | 141.435 | ug/l   | 92       |
| 60) Dibromochloromethane      | 10.983 | 129  | 54864    | 24.803  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 47851    | 24.988  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 58563    | 23.378  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 135261   | 22.744  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 51011    | 23.434  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 237216   | 22.213  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 181439   | 43.833  | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 89040    | 22.508  | ug/l   | 96       |
| 70) Styrene                   | 12.044 | 104  | 153043   | 23.008  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 37085    | 24.423  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 230665   | 21.669  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 85876    | 24.012  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 63274    | 24.899  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 48838m   | 25.986  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 58148    | 23.063  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 278829   | 21.647  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 159816   | 22.121  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 194805   | 21.879  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 20936    | 24.573  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 167956   | 22.368  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 170219   | 21.827  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 197547   | 22.345  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 252560   | 21.712  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 211415   | 21.686  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 115099   | 23.124  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 115068   | 22.870  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 200151   | 21.813  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 39820    | 22.838  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 106691   | 23.488  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 13443    | 26.742  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 68861    | 24.139  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 34607    | 22.248  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 178569   | 25.270  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 63182    | 24.282  | ug/l   | 99       |

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_Y  
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APPROVED

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Quant Time: Sep 15 03:59:03 2023  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

