

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050724\  
 Data File : VY018166.D  
 Acq On : 07 May 2024 10:39  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/08/2024  
 Supervised By :Semsettin Yesilyurt 05/08/2024

Quant Time: May 08 01:15:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 00:59:30 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 257338     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 416289     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 349482     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 155562     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 77342      | 40.853  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 81.700% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 94635      | 43.256  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 86.520% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 374831     | 43.477  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 86.960% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 116305     | 41.774  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 83.540% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 105102     | 51.500  | ug/l   | 97       |
| 3) Chloromethane             | 2.107          | 50   | 145966     | 53.431  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.241          | 62   | 179165     | 54.102  | ug/l   | 97       |
| 5) Bromomethane              | 2.643          | 94   | 118380     | 51.472  | ug/l   | 98       |
| 6) Chloroethane              | 2.784          | 64   | 112284     | 53.425  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 203392     | 52.434  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.515          | 74   | 65054      | 50.944  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 129729     | 52.476  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.082          | 142  | 165739     | 57.412  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 41197      | 247.469 | ug/l # | 79       |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 133746     | 53.742  | ug/l   | 99       |
| 13) Acrolein                 | 3.716          | 56   | 38771      | 208.824 | ug/l   | 97       |
| 14) Allyl chloride           | 4.472          | 41   | 167396     | 52.873  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.149          | 53   | 121224     | 246.858 | ug/l   | 99       |
| 16) Acetone                  | 3.936          | 43   | 94981      | 251.407 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.186          | 76   | 388889     | 57.399  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.466          | 43   | 50037      | 46.495  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 277323     | 50.025  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.704          | 84   | 130383     | 48.826  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 141459     | 53.622  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.112          | 45   | 344372     | 51.275  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.051          | 43   | 1028774    | 252.025 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 217525     | 52.586  | ug/l   | 99       |
| 25) 2-Butanone               | 6.978          | 43   | 148147     | 245.314 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 195684     | 52.268  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 165403     | 53.054  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.332          | 49   | 80270      | 48.550  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 95328      | 239.137 | ug/l   | 97       |
| 30) Chloroform               | 7.502          | 83   | 224747     | 52.044  | ug/l   | 96       |
| 31) Cyclohexane              | 7.783          | 56   | 201958     | 55.055  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 202379     | 52.286  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 168836     | 53.832  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.070          | 43   | 66876      | 50.662  | ug/l # | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 184903     | 53.955  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 250847     | 55.440  | ug/l   | 97       |
| 40) Benzene                  | 8.155          | 78   | 541713     | 53.696  | ug/l   | 96       |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
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Reviewed By :Mahesh Dadoda 05/08/2024  
 Supervised By :Semsettin Yesilyurt 05/08/2024

Quant Time: May 08 01:15:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050724S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 00:59:30 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 40807m   | 53.533  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 112507   | 51.255  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 132887   | 49.112  | ug/l   | 96       |
| 44) Trichloroethene           | 8.935  | 130  | 148446   | 54.053  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 117992   | 53.497  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 64255    | 50.677  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 166112   | 52.993  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 60868    | 49.083  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.289  | 88   | 16802    | 998.307 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 337067   | 247.854 | ug/l   | 96       |
| 52) Toluene                   | 10.240 | 92   | 345580   | 53.209  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 152714   | 52.158  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 185089   | 51.715  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 88702    | 50.925  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 120272   | 50.842  | ug/l # | 90       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 145872   | 51.457  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 246065   | 217.835 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 241538   | 254.015 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.983 | 129  | 116703   | 51.642  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 82709    | 50.414  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 126070   | 54.180  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.514 | 112  | 380921   | 53.516  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 120362   | 52.277  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 643645   | 53.557  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.703 | 106  | 510358   | 107.386 | ug/l   | 97       |
| 69) o-Xylene                  | 12.026 | 106  | 240992   | 52.839  | ug/l   | 96       |
| 70) Styrene                   | 12.044 | 104  | 406374   | 53.354  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 65780    | 51.637  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.331 | 105  | 623349   | 53.445  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 119923   | 49.531  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 93432    | 50.217  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 61519m   | 49.406  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 143073   | 53.397  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.672 | 91   | 732086   | 53.964  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 396650   | 52.615  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 491772   | 53.471  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 33803    | 52.304  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 397748   | 52.526  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 458505   | 54.049  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 481152   | 53.408  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 667585   | 53.650  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 554455   | 54.164  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 272686   | 52.697  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 266454   | 52.821  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 501580   | 54.142  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 107668   | 53.613  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 233688   | 52.542  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 12035    | 47.505  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 131461   | 52.577  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 76687    | 55.588  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 233367   | 50.934  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 107985   | 52.625  | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Wed May 08 00:59:30 2024  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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