

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020222\  
 Data File : VD071876.D  
 Acq On : 02 Feb 2022 13:00  
 Operator : VA/SY  
 Sample : VD0202SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0202SBS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/03/2022  
 Supervised By :Mahesh Dadoda 02/07/2022

Quant Time: Feb 03 01:06:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012622S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 27 06:04:38 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 359770              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 606277              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 572242              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 269540              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 261860              | 57.586  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 115.180% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 229663              | 57.628  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 115.260% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 845167              | 56.785  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 113.580% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 295304              | 56.816  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 113.640% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 100128              | 23.469  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 116530              | 22.814  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 114821              | 21.472  | ug/l   | 97       |
| 5) Bromomethane              | 2.756          | 94   | 74566               | 21.133  | ug/l   | 93       |
| 6) Chloroethane              | 2.920          | 64   | 72962               | 21.530  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 160178              | 20.901  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.714          | 74   | 43895               | 21.707  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 92262               | 21.339  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 80958               | 18.265  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.214          | 59   | 29270               | 79.749  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 86082               | 21.779  | ug/l   | 93       |
| 13) Acrolein                 | 3.926          | 56   | 46815               | 115.910 | ug/l   | 95       |
| 14) Allyl chloride           | 4.714          | 41   | 156304              | 20.746  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.426          | 53   | 118478              | 115.281 | ug/l   | 98       |
| 16) Acetone                  | 4.162          | 43   | 114102              | 91.664  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.409          | 76   | 282407              | 20.491  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.709          | 43   | 58728               | 21.821  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 211017              | 22.316  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.956          | 84   | 99885               | 19.719  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 96697               | 21.015  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.361          | 45   | 325336              | 22.032  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.303          | 43   | 904263              | 111.005 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 190237              | 22.103  | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 160268              | 110.443 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 147106              | 20.654  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 107049              | 21.661  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 62592               | 19.281  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 102211              | 119.041 | ug/l   | 95       |
| 30) Chloroform               | 7.708          | 83   | 189678              | 21.571  | ug/l   | 94       |
| 31) Cyclohexane              | 7.985          | 56   | 173287              | 19.961  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 160613              | 20.709  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 143525              | 20.983  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.285          | 43   | 70160               | 22.062  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 142368              | 21.047  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.355          | 83   | 161432              | 20.369  | ug/l   | 96       |
| 40) Benzene                  | 8.344          | 78   | 394878              | 21.387  | ug/l   | 98       |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0202SBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/03/2022  
 Supervised By : Mahesh Dadoda 02/07/2022

Quant Time: Feb 03 01:06:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012622S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 27 06:04:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 43054    | 23.931  | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 132407   | 22.710  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 127773   | 22.355  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 98930    | 20.752  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 104978   | 22.050  | ug/l   | 91       |
| 46) Dibromomethane            | 9.467  | 93   | 57483    | 23.060  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 145667   | 22.095  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.455  | 41   | 67150    | 22.199  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 12692    | 446.072 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 340270   | 113.763 | ug/l   | 98       |
| 52) Toluene                   | 10.402 | 92   | 245838   | 21.412  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 128434   | 21.211  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 150959   | 21.269  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 73857    | 22.324  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 89171    | 21.769  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 131542   | 22.271  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 212939   | 110.429 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 233832   | 107.710 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.132 | 129  | 89147    | 21.821  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 70165    | 22.012  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.867 | 164  | 81112    | 20.039  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 255038   | 21.067  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 94370    | 21.427  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 454371   | 20.397  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.843 | 106  | 353948   | 41.774  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 161610   | 20.989  | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 280078   | 21.103  | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 49661    | 21.119  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 423044   | 20.269  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 116817   | 22.759  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 85907    | 22.242  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 67903m   | 23.904  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 97531    | 21.007  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.814 | 91   | 544460   | 20.804  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 307656   | 20.744  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 361534   | 20.884  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 24134    | 20.890  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 325424   | 21.090  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 298562   | 20.809  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 359940   | 21.136  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 466620   | 20.785  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 378400   | 20.743  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 197214   | 20.918  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 197743   | 21.016  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.832 | 91   | 368439   | 20.585  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 74920    | 20.661  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 173224   | 21.471  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 13237    | 20.693  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 96674    | 20.512  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 54733    | 21.298  | ug/l   | 98       |
| 95) Naphthalene               | 15.379 | 128  | 180032   | 20.122  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 86222    | 21.343  | ug/l   | 99       |

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 ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 VD0202SBSD01

**Manual Integrations**  
**APPROVED**

Reviewed By :Semsettin Yesilyurt 02/03/2022  
 Supervised By :Mahesh Dadoda 02/07/2022

Quant Time: Feb 03 01:06:46 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D012622S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 27 06:04:38 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

