

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022822\  
 Data File : VD072116.D  
 Acq On : 28 Feb 2022 12:10  
 Operator : VA/SY  
 Sample : VD0228SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0228SBS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/01/2022  
 Supervised By :Mahesh Dadoda 03/01/2022

Quant Time: Feb 28 16:28:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 469725              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 766100              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 694207              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 337225              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 257116              | 52.770  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.540% |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 250259              | 53.917  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 107.840% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 963087              | 55.952  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 111.900% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 341688              | 54.041  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 108.080% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 86612               | 19.557  | ug/l   | 94       |
| 3) Chloromethane             | 2.209          | 50   | 77984               | 19.620  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.350          | 62   | 70507               | 17.635  | ug/l   | 98       |
| 5) Bromomethane              | 2.762          | 94   | 44580               | 16.368  | ug/l   | 91       |
| 6) Chloroethane              | 2.921          | 64   | 46538               | 18.416  | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 151578              | 19.596  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.709          | 74   | 42568               | 19.305  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 92984               | 19.240  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 74734               | 16.122  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 30613               | 110.117 | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 77057               | 17.951  | ug/l   | 95       |
| 13) Acrolein                 | 3.921          | 56   | 37524               | 68.449  | ug/l   | 95       |
| 14) Allyl chloride           | 4.715          | 41   | 137323              | 18.254  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.426          | 53   | 118423              | 99.366  | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 101741              | 96.618  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.409          | 76   | 163734              | 14.183  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.715          | 43   | 60188               | 21.851  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 216684              | 20.750  | ug/l   | 93       |
| 20) Methylene Chloride       | 4.968          | 84   | 100628              | 19.201  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 85142               | 17.653  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.367          | 45   | 316360              | 20.139  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.303          | 43   | 826358              | 98.506  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 182745              | 19.555  | ug/l   | 99       |
| 25) 2-Butanone               | 7.214          | 43   | 144418              | 99.229  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 152768              | 20.428  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 110905              | 20.069  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 75531               | 18.959  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.561          | 42   | 87739               | 94.461  | ug/l   | 97       |
| 30) Chloroform               | 7.709          | 83   | 192102              | 20.021  | ug/l   | 96       |
| 31) Cyclohexane              | 7.985          | 56   | 147579              | 17.148  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 164936              | 19.975  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 131282              | 18.672  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 62494               | 19.168  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 144103              | 19.997  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.356          | 83   | 142315              | 17.294  | ug/l   | 97       |
| 40) Benzene                  | 8.350          | 78   | 377841              | 19.045  | ug/l   | 98       |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0228SBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/01/2022  
 Supervised By : Mahesh Dadoda 03/01/2022

Quant Time: Feb 28 16:28:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 41122    | 20.339  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 120719   | 20.285  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 120565   | 19.858  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 104329   | 19.294  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 102687   | 19.404  | ug/l   | 96       |
| 46) Dibromomethane            | 9.473  | 93   | 53378    | 19.113  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.656  | 83   | 147620   | 20.490  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.450  | 41   | 57442    | 18.729  | ug/l # | 89       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 12592    | 380.068 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 328882   | 102.212 | ug/l   | 99       |
| 52) Toluene                   | 10.397 | 92   | 246504   | 19.415  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 134873   | 20.470  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 156980   | 20.130  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 78835    | 20.058  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 93532    | 19.928  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 133190   | 19.607  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 228266   | 108.713 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 220955   | 100.675 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.132 | 129  | 98471    | 20.063  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 74058    | 19.718  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 87315    | 19.922  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.661 | 112  | 273594   | 20.335  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 101932   | 20.413  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 477332   | 20.176  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.850 | 106  | 368506   | 40.690  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 174010   | 20.425  | ug/l   | 98       |
| 70) Styrene                   | 12.185 | 104  | 308450   | 21.097  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 60902    | 21.265  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 483533   | 20.883  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 117316   | 20.983  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 94121    | 20.560  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 75161m   | 23.530  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 111734   | 20.607  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 597373   | 20.990  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 342338   | 20.783  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 415376   | 21.484  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 28824    | 22.597  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 354748   | 20.693  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 360492   | 21.701  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 410495   | 21.598  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 542369   | 21.434  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 442852   | 21.278  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 225677   | 20.590  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 223843   | 20.325  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 417496   | 21.095  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.096 | 117  | 84552    | 20.239  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 202655   | 21.084  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 14809    | 20.766  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 126295   | 21.391  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 70193    | 21.621  | ug/l   | 96       |
| 95) Naphthalene               | 15.385 | 128  | 234671   | 21.895  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 111122   | 21.820  | ug/l   | 98       |

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 Sample : VD0228SBSD01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 VD0228SBSD01

**Manual Integrations**  
**APPROVED**

Reviewed By :Semsettin Yesilyurt 03/01/2022  
 Supervised By :Mahesh Dadoda 03/01/2022

Quant Time: Feb 28 16:28:35 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 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

