

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL062922\  
 Data File : VL039403.D  
 Acq On : 29 Jun 2022 19:36  
 Operator : SY/AP  
 Sample : VL0629ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0629ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/01/2022  
 Supervised By : Mahesh Dadoda 07/01/2022

Quant Time: Jun 30 05:43:51 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jun 30 05:40:11 2022

QLast Update : Thu Jun 30 05:40:11 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.655  | 49   | 1296279  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.163  | 114  | 3566285  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.073 | 117  | 3360025m | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.397 95 2579994 10.350 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds

|                                 |       |     |         |        |        | Qvalue |
|---------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 3.044 | 85  | 1720709 | 9.203  | ppbv   | 99     |
| 3) Chlorodifluoromethane        | 2.983 | 51  | 1428799 | 8.688  | ppbv   | 100    |
| 4) Chloromethane                | 3.137 | 50  | 785041  | 8.728  | ppbv   | 98     |
| 5) Vinyl Chloride               | 3.250 | 62  | 755769  | 8.521  | ppbv   | 96     |
| 6) Bromomethane                 | 3.468 | 94  | 335002  | 8.975  | ppbv   | 93     |
| 7) Chloroethane                 | 3.549 | 64  | 271111  | 8.594  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane    | 3.182 | 85  | 1837598 | 8.997  | ppbv   | 100    |
| 9) Propene                      | 3.005 | 41  | 623152  | 8.390  | ppbv   | 98     |
| 10) Heptane                     | 8.111 | 43  | 1644782 | 9.455  | ppbv   | 99     |
| 11) Trichlorofluoromethane      | 3.941 | 101 | 1847948 | 8.869  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoro... | 4.475 | 101 | 1373009 | 8.840  | ppbv   | 99     |
| 13) Ethanol                     | 3.594 | 45  | 36700m  | 8.517  | ppbv   |        |
| 14) Bromoethene                 | 3.732 | 108 | 581983  | 8.913  | ppbv   | 99     |
| 15) Acetone                     | 3.838 | 43  | 1324865 | 8.639  | ppbv   | 99     |
| 16) 1,3-Butadiene               | 3.321 | 39  | 712336  | 8.952  | ppbv   | 99     |
| 17) tert-Butyl alcohol          | 4.272 | 59  | 1309340 | 10.059 | ppbv   | 99     |
| 18) 1,1-Dichloroethene          | 4.279 | 96  | 615136  | 8.742  | ppbv   | 98     |
| 19) Isopropyl Alcohol           | 3.951 | 45  | 730694  | 8.932  | ppbv # | 97     |
| 20) Methylene Chloride          | 4.333 | 84  | 528271  | 8.642  | ppbv   | 95     |
| 21) Allyl Chloride              | 4.404 | 41  | 964709  | 9.082  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene    | 4.873 | 96  | 623661  | 9.156  | ppbv   | 97     |
| 23) Vinyl Acetate               | 5.060 | 43  | 1010851 | 9.863  | ppbv   | 97     |
| 24) 1,1-Dichloroethane          | 4.999 | 63  | 1361625 | 9.407  | ppbv   | 98     |
| 25) Ethyl Acetate               | 5.661 | 43  | 2980270 | 9.477  | ppbv   | 99     |
| 26) Hexane                      | 5.674 | 57  | 1246551 | 9.834  | ppbv   | 99     |
| 27) Carbon Disulfide            | 4.542 | 76  | 1552385 | 10.146 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether     | 5.021 | 73  | 1309773 | 9.664  | ppbv   | 97     |
| 29) Chloroform                  | 5.742 | 83  | 1984242 | 9.002  | ppbv   | 98     |
| 30) Cyclohexane                 | 7.118 | 84  | 1069979 | 9.272  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene      | 5.536 | 61  | 1237728 | 9.203  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane       | 6.497 | 97  | 2026787 | 9.316  | ppbv   | 99     |
| 34) 2-Butanone                  | 5.227 | 43  | 1733228 | 9.655  | ppbv   | 100    |
| 35) Carbon Tetrachloride        | 7.005 | 117 | 2156157 | 9.785  | ppbv   | 98     |
| 36) Benzene                     | 6.877 | 78  | 2622489 | 9.501  | ppbv   | 96     |
| 37) 1,2-Dichloroethane          | 6.291 | 62  | 1544339 | 9.479  | ppbv   | 100    |
| 38) Trichloroethene             | 7.822 | 130 | 1407284 | 9.427  | ppbv   | 100    |
| 39) 1,2-Dichloropropane         | 7.600 | 63  | 987839  | 9.580  | ppbv   | 95     |
| 40) 1,4-Dioxane                 | 7.816 | 88  | 302392  | 7.359  | ppbv # | 1      |
| 41) Tetrahydrofuran             | 6.034 | 42  | 1022781 | 9.832  | ppbv   | 99     |
| 42) Bromodichloromethane        | 7.777 | 83  | 2160466 | 9.835  | ppbv   | 100    |
| 43) Methyl Methacrylate         | 7.996 | 69  | 1061252 | 10.112 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane      | 7.857 | 57  | 4350735 | 9.302  | ppbv   | 99     |
| 45) t-1,3-Dichloropropene       | 9.266 | 75  | 1097889 | 11.749 | ppbv   | 99     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
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 APPROVED

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Quant Time: Jun 30 05:43:51 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jun 30 05:40:11 2022

QLast Update : Thu Jun 30 05:40:11 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.690  | 75   | 1411638  | 10.975 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 9.462  | 97   | 1094939  | 9.464  | ppbv  | 97       |
| 48) Dibromochloromethane      | 10.291 | 129  | 1958128  | 10.649 | ppbv  | 99       |
| 49) Bromoform                 | 13.028 | 173  | 1635364  | 11.024 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.725  | 43   | 2757305  | 10.158 | ppbv  | 99       |
| 51) 2-Hexanone                | 10.114 | 43   | 2138669  | 10.416 | ppbv  | 100      |
| 52) Tetrachloroethene         | 11.204 | 164  | 1025905  | 9.233  | ppbv  | 98       |
| 53) Toluene                   | 9.790  | 91   | 3167300  | 9.948  | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.597 | 107  | 1452641  | 10.090 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.111 | 131  | 1421065  | 9.574  | ppbv  | 95       |
| 57) Chlorobenzene             | 12.130 | 112  | 2442108  | 9.375  | ppbv  | 97       |
| 58) Ethyl Benzene             | 12.693 | 91   | 4232284  | 9.755  | ppbv  | 99       |
| 59) m/p-Xylene                | 12.982 | 91   | 7338786m | 19.186 | ppbv  |          |
| 60) o-Xylene                  | 13.677 | 91   | 3529932  | 9.746  | ppbv  | 100      |
| 61) Styrene                   | 13.513 | 104  | 2084017  | 10.622 | ppbv  | 99       |
| 62) Isopropylbenzene          | 14.651 | 105  | 5200500  | 9.428  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.661 | 83   | 1686001  | 8.881  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.548 | 120  | 1373095  | 9.822  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 16.732 | 119  | 4763116  | 9.345  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.969 | 91   | 534860   | 11.043 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 17.278 | 105  | 6523122  | 9.502  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.635 | 119  | 5618096  | 9.645  | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.532 | 91   | 5517914  | 9.760  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.433 | 91   | 3826156  | 9.692  | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.825 | 105  | 4277131  | 10.044 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.982 | 105  | 3855150  | 9.857  | ppbv  | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.748 | 105  | 4181533  | 9.664  | ppbv  | 98       |
| 75) 1,3-Dichlorobenzene       | 16.979 | 146  | 2472292  | 9.579  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.121 | 146  | 2382915  | 9.315  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 17.799 | 146  | 2394190  | 9.359  | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.358 | 225  | 1731245  | 8.414  | ppbv  | 99       |
| 79) Naphthalene               | 22.172 | 128  | 3357598  | 11.276 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.953 | 142  | 1200404  | 11.845 | ppbv  | 95       |
| 81) 1,2,4-Trichlorobenzene    | 21.902 | 180  | 1931152  | 9.957  | ppbv  | 100      |

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

