

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051322\  
 Data File : VL039034.D  
 Acq On : 13 May 2022 12:28  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2022  
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 00:52:35 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 14 00:52:35 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.645  | 49   | 947495   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.150  | 114  | 2574084  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.057 | 117  | 2302778  | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.381 95 1760273 9.652 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.500%

Target Compounds

|                                 |       |     |         |        |        | Qvalue |
|---------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane      | 3.041 | 85  | 1452059 | 9.781  | ppbv   | 99     |
| 3) Chlorodifluoromethane        | 2.980 | 51  | 1194145 | 10.157 | ppbv   | 96     |
| 4) Chloromethane                | 3.131 | 50  | 606907  | 10.308 | ppbv   | 98     |
| 5) Vinyl Chloride               | 3.247 | 62  | 580834  | 10.803 | ppbv   | 99     |
| 6) Bromomethane                 | 3.462 | 94  | 286998  | 11.300 | ppbv   | 98     |
| 7) Chloroethane                 | 3.543 | 64  | 196810  | 10.937 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane    | 3.176 | 85  | 1408125 | 10.466 | ppbv   | 97     |
| 9) Propene                      | 2.999 | 41  | 571183  | 11.125 | ppbv   | 95     |
| 10) Heptane                     | 8.095 | 43  | 1407628 | 11.175 | ppbv   | 100    |
| 11) Trichlorofluoromethane      | 3.935 | 101 | 1296788 | 10.181 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoro... | 4.468 | 101 | 941692  | 10.732 | ppbv   | 98     |
| 13) Ethanol                     | 3.597 | 45  | 35033m  | 9.642  | ppbv   |        |
| 14) Bromoethene                 | 3.726 | 108 | 423325  | 11.700 | ppbv   | 96     |
| 15) Acetone                     | 3.835 | 43  | 928421  | 10.388 | ppbv   | 99     |
| 16) 1,3-Butadiene               | 3.314 | 39  | 536510  | 10.448 | ppbv   | 96     |
| 17) tert-Butyl alcohol          | 4.263 | 59  | 740720  | 10.783 | ppbv   | 98     |
| 18) 1,1-Dichloroethene          | 4.272 | 96  | 408840  | 10.826 | ppbv   | 98     |
| 19) Isopropyl Alcohol           | 3.944 | 45  | 459397  | 10.811 | ppbv   | 99     |
| 20) Methylene Chloride          | 4.327 | 84  | 350427  | 10.403 | ppbv   | 97     |
| 21) Allyl Chloride              | 4.398 | 41  | 694067  | 11.396 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene    | 4.867 | 96  | 424629  | 10.410 | ppbv   | 97     |
| 23) Vinyl Acetate               | 5.050 | 43  | 824698  | 11.662 | ppbv   | 97     |
| 24) 1,1-Dichloroethane          | 4.993 | 63  | 877754  | 10.779 | ppbv   | 99     |
| 25) Ethyl Acetate               | 5.655 | 43  | 2432512 | 11.371 | ppbv   | 99     |
| 26) Hexane                      | 5.665 | 57  | 1060294 | 11.155 | ppbv   | 97     |
| 27) Carbon Disulfide            | 4.533 | 76  | 1060868 | 11.749 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether     | 5.015 | 73  | 821575  | 11.361 | ppbv   | 99     |
| 29) Chloroform                  | 5.732 | 83  | 1691053 | 10.997 | ppbv   | 96     |
| 30) Cyclohexane                 | 7.105 | 84  | 902394  | 11.340 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene      | 5.526 | 61  | 1069887 | 11.049 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane       | 6.491 | 97  | 1664200 | 10.823 | ppbv   | 98     |
| 34) 2-Butanone                  | 5.221 | 43  | 1411240 | 10.746 | ppbv   | 97     |
| 35) Carbon Tetrachloride        | 6.996 | 117 | 1681688 | 9.915  | ppbv   | 98     |
| 36) Benzene                     | 6.867 | 78  | 2225883 | 10.104 | ppbv   | 98     |
| 37) 1,2-Dichloroethane          | 6.285 | 62  | 1267389 | 9.299  | ppbv   | 98     |
| 38) Trichloroethene             | 7.809 | 130 | 950632  | 9.707  | ppbv   | 98     |
| 39) 1,2-Dichloropropane         | 7.587 | 63  | 852998  | 9.952  | ppbv   | 97     |
| 40) 1,4-Dioxane                 | 7.803 | 88  | 308269  | 10.014 | ppbv # | 1      |
| 41) Tetrahydrofuran             | 6.025 | 42  | 916595  | 10.385 | ppbv   | 99     |
| 42) Bromodichloromethane        | 7.764 | 83  | 1843632 | 9.894  | ppbv   | 99     |
| 43) Methyl Methacrylate         | 7.989 | 69  | 926587  | 10.361 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane      | 7.845 | 57  | 3738740 | 9.672  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene       | 9.253 | 75  | 1043304 | 12.052 | ppbv   | 98     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051322\  
 Data File : VL039034.D  
 Acq On : 13 May 2022 12:28  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2022  
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 00:52:35 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 05 10:12:15 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 8.677  | 75   | 1265945  | 11.028 | ppbv  | 94       |
| 47) 1,1,2-Trichloroethane     | 9.449  | 97   | 914832   | 10.262 | ppbv  | 98       |
| 48) Dibromochloromethane      | 10.275 | 129  | 1510317  | 10.409 | ppbv  | 99       |
| 49) Bromoform                 | 13.008 | 173  | 1222215  | 11.045 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.710  | 43   | 2324250  | 10.093 | ppbv  | 98       |
| 51) 2-Hexanone                | 10.102 | 43   | 1849909  | 11.007 | ppbv  | 98       |
| 52) Tetrachloroethene         | 11.195 | 164  | 773795   | 9.830  | ppbv  | 98       |
| 53) Toluene                   | 9.777  | 91   | 2601516  | 10.537 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.581 | 107  | 1289065  | 10.622 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.095 | 131  | 1060416  | 10.495 | ppbv  | 99       |
| 57) Chlorobenzene             | 12.118 | 112  | 1816037  | 10.521 | ppbv  | 96       |
| 58) Ethyl Benzene             | 12.677 | 91   | 3474756  | 10.485 | ppbv  | 100      |
| 59) m/p-Xylene                | 12.967 | 91   | 5833987m | 20.621 | ppbv  |          |
| 60) o-Xylene                  | 13.661 | 91   | 2739040  | 10.286 | ppbv  | 100      |
| 61) Styrene                   | 13.497 | 104  | 1656475  | 11.653 | ppbv  | 96       |
| 62) Isopropylbenzene          | 14.635 | 105  | 3972304  | 10.201 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.645 | 83   | 1559482  | 9.946  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.526 | 120  | 1019504  | 10.829 | ppbv  | 95       |
| 65) tert-Butylbenzene         | 16.709 | 119  | 3427436  | 10.046 | ppbv  | 96       |
| 66) Benzyl Chloride           | 16.957 | 91   | 608671   | 13.648 | ppbv  | 97       |
| 67) sec-Butylbenzene          | 17.262 | 105  | 4953859  | 10.163 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.619 | 119  | 4054657  | 10.296 | ppbv  | 99       |
| 70) n-Butylbenzene            | 18.516 | 91   | 4328013  | 10.345 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 15.420 | 91   | 3068743  | 10.223 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.806 | 105  | 3265882  | 10.763 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.963 | 105  | 2922134  | 10.697 | ppbv  | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.728 | 105  | 3072361  | 10.272 | ppbv  | 97       |
| 75) 1,3-Dichlorobenzene       | 16.963 | 146  | 1750290  | 10.681 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 17.105 | 146  | 1679684  | 10.419 | ppbv  | 97       |
| 77) 1,2-Dichlorobenzene       | 17.783 | 146  | 1688233  | 10.416 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.339 | 225  | 1345997  | 9.036  | ppbv  | 99       |
| 79) Naphthalene               | 22.153 | 128  | 2896411  | 11.922 | ppbv  | 99       |
| 80) Naphthalene,2-methyl-     | 24.940 | 142  | 953465   | 12.973 | ppbv  | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.886 | 180  | 1527385  | 10.729 | ppbv  | 99       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL051322\  
Data File : VL039034.D  
Acq On : 13 May 2022 12:28  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 05/15/2022  
Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 00:52:35 2022  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050522AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May  
QLast Update : Thu May 05 10:12:15 2022  
Response via : Initial Calibration

