

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 1153970  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3232256  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 2900644  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 13.777 | 95    | 2213310  | 10.318   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.200% |

| Target Compounds              |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 96069  | 0.461 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 81180  | 0.540 | ppbv   | 99  |
| 4) Chloromethane              | 2.809 | 50  | 41203  | 0.517 | ppbv # | 86  |
| 5) Vinyl Chloride             | 2.915 | 62  | 36174  | 0.501 | ppbv   | 97  |
| 6) Bromomethane               | 3.118 | 94  | 19426  | 0.511 | ppbv # | 79  |
| 7) Chloroethane               | 3.192 | 64  | 13079  | 0.500 | ppbv   | 90  |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 102861 | 0.552 | ppbv   | 97  |
| 9) Propene                    | 2.690 | 41  | 32642  | 0.498 | ppbv   | 96  |
| 10) Heptane                   | 7.578 | 43  | 63040  | 0.429 | ppbv   | 99  |
| 11) Trichlorofluoromethane    | 3.558 | 101 | 92855  | 0.511 | ppbv   | 89  |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 67243  | 0.509 | ppbv   | 96  |
| 13) Ethanol                   | 3.269 | 45  | 2080m  | 0.510 | ppbv   |     |
| 14) Bromoethene               | 3.362 | 108 | 28054  | 0.528 | ppbv # | 88  |
| 15) Acetone                   | 3.481 | 43  | 69299  | 0.488 | ppbv # | 85  |
| 16) 1,3-Butadiene             | 2.983 | 39  | 33737  | 0.474 | ppbv   | 88  |
| 17) tert-Butyl alcohol        | 3.890 | 59  | 61100  | 0.490 | ppbv # | 93  |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 30772  | 0.531 | ppbv   | 97  |
| 19) Isopropyl Alcohol         | 3.597 | 45  | 32369m | 0.471 | ppbv   |     |
| 20) Methylene Chloride        | 3.928 | 84  | 29673  | 0.568 | ppbv   | 97  |
| 21) Allyl Chloride            | 3.993 | 41  | 39722  | 0.453 | ppbv   | 86  |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 27393  | 0.474 | ppbv   | 96  |
| 23) Vinyl Acetate             | 4.629 | 43  | 28383m | 0.425 | ppbv   |     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 61980  | 0.482 | ppbv   | 99  |
| 25) Ethyl Acetate             | 5.211 | 43  | 140929 | 0.479 | ppbv # | 98  |
| 26) Hexane                    | 5.211 | 57  | 50843  | 0.450 | ppbv   | 81  |
| 27) Carbon Disulfide          | 4.121 | 76  | 52791  | 0.416 | ppbv # | 86  |
| 28) Methyl tert-Butyl Ether   | 4.594 | 73  | 34128  | 0.469 | ppbv   | 96  |
| 29) Chloroform                | 5.266 | 83  | 98787  | 0.530 | ppbv   | 93  |
| 30) Cyclohexane               | 6.600 | 84  | 51970m | 0.573 | ppbv   |     |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 50385  | 0.464 | ppbv   | 94  |
| 32) 1,1,1-Trichloroethane     | 5.999 | 97  | 84699  | 0.496 | ppbv   | 96  |
| 34) 2-Butanone                | 4.796 | 43  | 78940  | 0.490 | ppbv   | 99  |
| 35) Carbon Tetrachloride      | 6.488 | 117 | 89311m | 0.523 | ppbv   |     |
| 36) Benzene                   | 6.362 | 78  | 107078 | 0.447 | ppbv   | 97  |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 64024  | 0.474 | ppbv   | 97  |
| 38) Trichloroethene           | 7.291 | 130 | 42598  | 0.461 | ppbv # | 90  |
| 39) 1,2-Dichloropropane       | 7.070 | 63  | 44946  | 0.475 | ppbv   | 93  |
| 40) 1,4-Dioxane               | 7.330 | 88  | 11696m | 0.349 | ppbv   |     |
| 41) Tetrahydrofuran           | 5.574 | 42  | 37743m | 0.411 | ppbv   |     |
| 42) Bromodichloromethane      | 7.246 | 83  | 86164  | 0.459 | ppbv   | 97  |
| 43) Methyl Methacrylate       | 7.475 | 69  | 31683m | 0.377 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 175510 | 0.433 | ppbv   | 93  |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 26475m | 0.352 | ppbv   |     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041677.D  
 Acq On : 7 Nov 2024 12:13  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 41408m   | 0.379 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.902  | 97   | 52244m   | 0.512 | ppbv   |          |
| 48) Dibromochloromethane      | 9.709  | 129  | 64053    | 0.411 | ppbv   | 99       |
| 49) Bromoform                 | 12.401 | 173  | 51263m   | 0.386 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 98725m   | 0.399 | ppbv   |          |
| 51) 2-Hexanone                | 9.577  | 43   | 66460m   | 0.370 | ppbv   |          |
| 52) Tetrachloroethene         | 10.610 | 164  | 40017m   | 0.489 | ppbv   |          |
| 53) Toluene                   | 9.221  | 91   | 90468    | 0.359 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 57696m   | 0.484 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 61817    | 0.512 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.520 | 112  | 113601m  | 0.525 | ppbv   |          |
| 58) Ethyl Benzene             | 12.089 | 91   | 125893m  | 0.392 | ppbv   |          |
| 59) m/p-Xylene                | 12.372 | 91   | 241360m  | 0.840 | ppbv   |          |
| 60) o-Xylene                  | 13.060 | 91   | 111856   | 0.408 | ppbv   | 99       |
| 61) Styrene                   | 12.899 | 104  | 36189m   | 0.320 | ppbv   |          |
| 62) Isopropylbenzene          | 14.031 | 105  | 187478   | 0.443 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.050 | 83   | 100534   | 0.503 | ppbv   | 96       |
| 64) n-propylbenzene           | 14.921 | 120  | 47206m   | 0.426 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.092 | 119  | 162846   | 0.428 | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.330 | 91   | 12069m   | 0.440 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.638 | 105  | 230007   | 0.429 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 16.995 | 119  | 169014   | 0.389 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.892 | 91   | 178790m  | 0.402 | ppbv   |          |
| 71) 2-Chlorotoluene           | 14.802 | 91   | 122982   | 0.401 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 125281m  | 0.393 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 15.355 | 105  | 115096m  | 0.412 | ppbv   |          |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 142178   | 0.437 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 16.333 | 146  | 93240m   | 0.464 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 16.478 | 146  | 93341m   | 0.473 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.146 | 146  | 93228    | 0.468 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 22.638 | 225  | 89942m   | 0.570 | ppbv   |          |
| 79) Naphthalene               | 21.397 | 128  | 76368m   | 0.382 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.410 | 142  | 17526m   | 0.473 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.149 | 180  | 52746m   | 0.424 | ppbv   |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
Data File : VL041677.D  
Acq On : 7 Nov 2024 12:13  
Operator : SY/MD  
Sample : VSTDICC0.5  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Nov 08 00:07:44 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024  
Supervised By : Semsettin Yesilyurt 11/09/2024

