

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\  
 Data File : VL038262.D  
 Acq On : 24 Jan 2022 16:36  
 Operator : SY/AP  
 Sample : VL0124ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VL0124ABS01

Manual Integrations  
 APPROVED

Quant Time: Jan 24 22:18:58 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/25/2022  
 Supervised By : Mahesh Dadoda 01/26/2022

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 856154   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2285324  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2035231m | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1622147  | 10.50    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.00% |

#### Target Compounds

|                                |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1708094 | 9.372  | ppbv 99   |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1460247 | 8.568  | ppbv 99   |
| 4) Chloromethane               | 3.15 | 50  | 500612  | 8.537  | ppbv 98   |
| 5) Vinyl Chloride              | 3.27 | 62  | 498732  | 8.522  | ppbv 98   |
| 6) Bromomethane                | 3.48 | 94  | 286993  | 9.071  | ppbv 99   |
| 7) Chloroethane                | 3.57 | 64  | 175364  | 8.871  | ppbv 94   |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1221046 | 8.658  | ppbv 99   |
| 9) Propene                     | 3.02 | 41  | 475840  | 8.576  | ppbv 96   |
| 10) Heptane                    | 8.13 | 43  | 1270541 | 8.901  | ppbv 100  |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1232436 | 8.680  | ppbv 98   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 916243  | 8.537  | ppbv 98   |
| 13) Ethanol                    | 3.62 | 45  | 54002m  | 9.067  | ppbv      |
| 14) Bromoethene                | 3.75 | 108 | 376350  | 8.974  | ppbv 99   |
| 15) Acetone                    | 3.86 | 43  | 612048  | 8.110  | ppbv 98   |
| 16) 1,3-Butadiene              | 3.34 | 39  | 474726  | 8.765  | ppbv 100  |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 702881  | 8.485  | ppbv 96   |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 403747  | 8.651  | ppbv 98   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 374726  | 7.937  | ppbv # 97 |
| 20) Methylene Chloride         | 4.36 | 84  | 342520  | 7.803  | ppbv 98   |
| 21) Allyl Chloride             | 4.42 | 41  | 606776  | 9.087  | ppbv 100  |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 438945  | 9.102  | ppbv 99   |
| 23) Vinyl Acetate              | 5.08 | 43  | 1010106 | 9.205  | ppbv 100  |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 851398  | 8.709  | ppbv 99   |
| 25) Ethyl Acetate              | 5.69 | 43  | 1973884 | 9.341  | ppbv 100  |
| 26) Hexane                     | 5.70 | 57  | 899042  | 9.147  | ppbv 99   |
| 27) Carbon Disulfide           | 4.56 | 76  | 1050459 | 9.135  | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 901604  | 8.843  | ppbv 99   |
| 29) Chloroform                 | 5.76 | 83  | 1453224 | 9.058  | ppbv 99   |
| 30) Cyclohexane                | 7.14 | 84  | 759355  | 8.873  | ppbv 98   |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 928195  | 10.826 | ppbv 97   |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 1430683 | 8.928  | ppbv 99   |
| 34) 2-Butanone                 | 5.26 | 43  | 665694  | 8.907  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 1502319 | 9.365  | ppbv 98   |
| 36) Benzene                    | 6.90 | 78  | 1914561 | 9.471  | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 1106921 | 9.560  | ppbv 99   |
| 38) Trichloroethene            | 7.84 | 130 | 687305  | 9.127  | ppbv 99   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 757618  | 9.244  | ppbv 99   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 178849  | 9.067  | ppbv 85   |
| 41) Tetrahydrofuran            | 6.06 | 42  | 490426  | 9.762  | ppbv 99   |
| 42) Bromodichloromethane       | 7.80 | 83  | 1611515 | 9.381  | ppbv 100  |
| 43) Methyl Methacrylate        | 8.02 | 69  | 722559  | 10.105 | ppbv 99   |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 3198000  | 8.977  | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 646808   | 11.134 | ppbv  | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 805432   | 10.391 | ppbv  | 99       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 765510   | 9.506  | ppbv  | 97       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1330000  | 9.810  | ppbv  | 100      |
| 49) Bromoform                 | 13.05 | 173  | 1029806  | 10.536 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 1276037  | 9.571  | ppbv  | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 564552   | 9.615  | ppbv  | 96       |
| 52) Tetrachloroethene         | 11.23 | 164  | 624750   | 8.967  | ppbv  | 95       |
| 53) Toluene                   | 9.82  | 91   | 2168425  | 9.691  | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1138497  | 9.944  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 854813   | 9.596  | ppbv  | 96       |
| 57) Chlorobenzene             | 12.15 | 112  | 1556666  | 9.558  | ppbv  | 100      |
| 58) Ethyl Benzene             | 12.72 | 91   | 2922192  | 9.770  | ppbv  | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 4843074m | 18.978 | ppbv  |          |
| 60) o-Xylene                  | 13.70 | 91   | 2284176  | 9.624  | ppbv  | 99       |
| 61) Styrene                   | 13.53 | 104  | 1219960  | 11.014 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.67 | 105  | 3051377  | 9.644  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 1638234  | 9.328  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.57 | 120  | 780419   | 10.253 | ppbv  | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 2592486  | 9.948  | ppbv  | 99       |
| 66) Benzyl Chloride           | 17.00 | 91   | 141273   | 11.934 | ppbv  | 97       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 3603674  | 9.940  | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 2916895  | 10.514 | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 2933617  | 10.796 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 2387335  | 10.187 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 2629931  | 10.596 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 2314758  | 10.370 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 2381188  | 10.126 | ppbv  | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1329044  | 10.532 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 1302200  | 10.659 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1230073  | 10.495 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 646120   | 7.929  | ppbv  | 100      |
| 79) Naphthalene               | 22.20 | 128  | 1130119  | 10.279 | ppbv  | 99       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 197563   | 16.523 | ppbv  | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 613403   | 9.486  | ppbv  | 100      |

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

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