

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030122\  
 Data File : VL038446.D  
 Acq On : 1 Mar 2022 11:31  
 Operator : SY/AP  
 Sample : VL0301ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0301ABS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/02/2022  
 Supervised By : Mahesh Dadoda 03/02/2022

Quant Time: Mar 02 03:03:57 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Feb 22 2022

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.658  | 49   | 885220   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.163  | 114  | 2115505  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.069 | 117  | 1911078m | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.394 95 1609587 10.179 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 3.050 | 85  | 1319014 | 9.407  | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 2.989 | 51  | 1561527 | 9.990  | ppbv   | 99     |
| 4) Chloromethane              | 3.140 | 50  | 546118  | 10.055 | ppbv   | 99     |
| 5) Vinyl Chloride             | 3.256 | 62  | 563184  | 9.919  | ppbv   | 98     |
| 6) Bromomethane               | 3.472 | 94  | 315532  | 10.535 | ppbv   | 98     |
| 7) Chloroethane               | 3.555 | 64  | 196887  | 10.796 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 3.189 | 85  | 1358450 | 10.416 | ppbv   | 99     |
| 9) Propene                    | 3.012 | 41  | 514654  | 9.972  | ppbv   | 100    |
| 10) Heptane                   | 8.108 | 43  | 1323386 | 10.534 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 3.947 | 101 | 1396123 | 10.400 | ppbv   | 93     |
| 12) 1,1,2-Trichlorotrifluo... | 4.478 | 101 | 1033547 | 10.502 | ppbv   | 98     |
| 13) Ethanol                   | 3.616 | 45  | 43399m  | 8.426  | ppbv   |        |
| 14) Bromoethene               | 3.735 | 108 | 411843  | 10.504 | ppbv   | 99     |
| 15) Acetone                   | 3.848 | 43  | 685737  | 9.109  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 3.327 | 39  | 530645  | 10.553 | ppbv   | 97     |
| 17) tert-Butyl alcohol        | 4.282 | 59  | 865797  | 11.528 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 4.285 | 96  | 437717  | 10.130 | ppbv   | 99     |
| 19) Isopropyl Alcohol         | 3.960 | 45  | 436219  | 10.007 | ppbv # | 99     |
| 20) Methylene Chloride        | 4.336 | 84  | 359465  | 9.637  | ppbv   | 95     |
| 21) Allyl Chloride            | 4.407 | 41  | 645765  | 10.156 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.880 | 96  | 471089  | 10.806 | ppbv   | 97     |
| 23) Vinyl Acetate             | 5.063 | 43  | 1030849 | 10.333 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 5.005 | 63  | 922956  | 10.291 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.671 | 43  | 2068030 | 10.225 | ppbv   | 100    |
| 26) Hexane                    | 5.677 | 57  | 939722  | 10.260 | ppbv   | 99     |
| 27) Carbon Disulfide          | 4.542 | 76  | 1111160 | 10.907 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 5.025 | 73  | 972207  | 10.422 | ppbv   | 100    |
| 29) Chloroform                | 5.742 | 83  | 1541402 | 10.311 | ppbv   | 99     |
| 30) Cyclohexane               | 7.118 | 84  | 774337  | 10.338 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 5.542 | 61  | 924526  | 10.419 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.500 | 97  | 1539931 | 10.244 | ppbv   | 99     |
| 34) 2-Butanone                | 5.237 | 43  | 710933  | 10.685 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 7.005 | 117 | 1593984 | 10.715 | ppbv   | 99     |
| 36) Benzene                   | 6.880 | 78  | 1958473 | 10.516 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 6.295 | 62  | 1155230 | 10.734 | ppbv   | 100    |
| 38) Trichloroethene           | 7.822 | 130 | 698453  | 10.296 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 7.600 | 63  | 770992  | 10.394 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 7.828 | 88  | 145955  | 8.295  | ppbv # | 38     |
| 41) Tetrahydrofuran           | 6.041 | 42  | 486662  | 10.826 | ppbv   | 98     |
| 42) Bromodichloromethane      | 7.777 | 83  | 1640879 | 10.559 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 8.002 | 69  | 723212  | 11.171 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 7.857 | 57  | 3366897 | 10.518 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 9.262 | 75  | 585316  | 11.312 | ppbv   | 100    |

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Quant Time: Mar 02 03:03:57 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Tue Feb 22 2022

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.690  | 75   | 753957   | 11.118 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.458  | 97   | 755236   | 10.233 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.288 | 129  | 1265621  | 10.488 | ppbv   | 100      |
| 49) Bromoform                 | 13.024 | 173  | 840367   | 9.434  | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 8.729  | 43   | 1333372  | 11.335 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.124 | 43   | 575532   | 10.928 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.204 | 164  | 589989   | 9.543  | ppbv   | 97       |
| 53) Toluene                   | 9.790  | 91   | 2127045  | 10.519 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.593 | 107  | 1080538  | 10.401 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.108 | 131  | 819884   | 10.293 | ppbv   | 97       |
| 57) Chlorobenzene             | 12.127 | 112  | 1455953  | 9.874  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.693 | 91   | 2708344  | 10.364 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.979 | 91   | 4587986m | 20.442 | ppbv   |          |
| 60) o-Xylene                  | 13.674 | 91   | 2134382  | 10.060 | ppbv   | 99       |
| 61) Styrene                   | 13.507 | 104  | 1027185  | 10.497 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.651 | 105  | 2814294  | 9.883  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.658 | 83   | 1452337  | 8.425  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.545 | 120  | 668527   | 9.482  | ppbv   | 87       |
| 65) tert-Butylbenzene         | 16.725 | 119  | 2270776  | 9.207  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.969 | 91   | 99343    | 7.454  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 17.278 | 105  | 3180689  | 9.102  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.635 | 119  | 2540633  | 9.256  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.532 | 91   | 2681170  | 9.439  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.432 | 91   | 2004995  | 9.157  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.822 | 105  | 2205325  | 9.434  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.979 | 105  | 1963838  | 9.251  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.748 | 105  | 2067296  | 9.224  | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 16.973 | 146  | 1104218  | 8.796  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.117 | 146  | 1044537  | 8.438  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.799 | 146  | 1042860  | 8.630  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.355 | 225  | 829111   | 8.997  | ppbv   | 99       |
| 79) Naphthalene               | 22.175 | 128  | 1561635  | 12.859 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.959 | 142  | 229387   | 9.665  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.905 | 180  | 841876   | 11.466 | ppbv   | 100      |

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

