

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL092721\  
 Data File : VL037697.D  
 Acq On : 28 Sep 2021 1:40  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2021 11:05:37 AM

Quant Time: Sep 28 03:18:28 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 1  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1471128  | 10.00 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4385784  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4057680m | 10.00 | ppbv  | 0.02     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2923279  | 9.97     | ppbv | 0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.70% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1862040 | 6.995  | ppbv   | 100    |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 2587410 | 9.324  | ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 980329  | 9.562  | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.27 | 62  | 1004017 | 10.426 | ppbv   | 99     |
| 6) Bromomethane                | 3.48 | 94  | 522239  | 9.331  | ppbv   | 96     |
| 7) Chloroethane                | 3.56 | 64  | 348160  | 9.674  | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 2241382 | 9.760  | ppbv   | 99     |
| 9) Propene                     | 3.02 | 41  | 987408  | 10.088 | ppbv   | 95     |
| 10) Heptane                    | 8.13 | 43  | 2394956 | 10.486 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 2002382 | 9.369  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1478749 | 9.374  | ppbv   | 100    |
| 13) Ethanol                    | 3.62 | 45  | 106949m | 11.171 | ppbv   |        |
| 14) Bromoethene                | 3.75 | 108 | 691117  | 9.624  | ppbv   | 100    |
| 15) Acetone                    | 3.86 | 43  | 1160277 | 7.591  | ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.34 | 39  | 966494  | 10.119 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1364349 | 10.526 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 686090  | 9.336  | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 848391m | 10.201 | ppbv   |        |
| 20) Methylene Chloride         | 4.35 | 84  | 573876  | 7.864  | ppbv   | 94     |
| 21) Allyl Chloride             | 4.42 | 41  | 1162705 | 10.182 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 695612  | 9.408  | ppbv   | 97     |
| 23) Vinyl Acetate              | 5.08 | 43  | 2443920 | 11.555 | ppbv # | 97     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1645001 | 10.857 | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.68 | 43  | 3730086 | 10.076 | ppbv   | 100    |
| 26) Hexane                     | 5.70 | 57  | 1757623 | 9.995  | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1629789 | 10.131 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1923736 | 12.420 | ppbv   | 97     |
| 29) Chloroform                 | 5.76 | 83  | 2438398 | 9.496  | ppbv   | 98     |
| 30) Cyclohexane                | 7.14 | 84  | 1447590 | 9.625  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1670754 | 10.466 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2300551 | 9.623  | ppbv   | 100    |
| 34) 2-Butanone                 | 5.25 | 43  | 1651180 | 9.264  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 2371818 | 9.560  | ppbv   | 98     |
| 36) Benzene                    | 6.90 | 78  | 3665699 | 10.023 | ppbv   | 97     |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 1728355 | 9.609  | ppbv   | 100    |
| 38) Trichloroethene            | 7.84 | 130 | 1404468 | 9.193  | ppbv   | 99     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1386125 | 9.896  | ppbv   | 100    |
| 40) 1,4-Dioxane                | 7.85 | 88  | 365096m | 10.715 | ppbv   |        |
| 41) Tetrahydrofuran            | 6.06 | 42  | 889711  | 10.619 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.80 | 83  | 2521563 | 9.781  | ppbv   | 98     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1340281 | 11.016 | ppbv   | 100    |

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 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 6052771  | 9.845  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1167022  | 12.212 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1514257  | 11.730 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1435060  | 9.261  | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2232456  | 10.327 | ppbv   | 99       |
| 49) Bromoform                 | 13.05 | 173  | 1718084  | 9.931  | ppbv   | 95       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2408339  | 10.646 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.15 | 43   | 1106539  | 11.087 | ppbv   | 97       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1327922  | 9.458  | ppbv   | 99       |
| 53) Toluene                   | 9.82  | 91   | 4217352  | 10.375 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2044109  | 9.634  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1521616  | 9.041  | ppbv # | 93       |
| 57) Chlorobenzene             | 12.16 | 112  | 2978205  | 8.829  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.72 | 91   | 5248858  | 9.745  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 8579615m | 18.278 | ppbv   |          |
| 60) o-Xylene                  | 13.70 | 91   | 4028378  | 9.017  | ppbv   | 98       |
| 61) Styrene                   | 13.54 | 104  | 2304185  | 10.459 | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 5708800  | 9.147  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2812681  | 8.044  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1488427  | 9.242  | ppbv   | 88       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 4942104  | 8.782  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.99 | 91   | 302243   | 9.829  | ppbv # | 97       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 6858925  | 8.984  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 5749161  | 9.217  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.56 | 91   | 5637658  | 9.553  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4082902  | 9.128  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 4659212  | 9.085  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4315392  | 9.027  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4480379  | 8.898  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 2735110  | 8.743  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 2643259  | 8.567  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2633825  | 8.877  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 2151736  | 8.616  | ppbv   | 99       |
| 79) Naphthalene               | 22.20 | 128  | 3786031  | 12.246 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 24.97 | 142  | 1058950  | 14.986 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2202662  | 11.097 | ppbv   | 98       |

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

