

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL063020\  
 Data File : VL035141.D  
 Acq On : 1 Jul 2020 1:34  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jul 01 05:24:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 02:10:36 2020  
 QLast Update : Sat Jun 20 02:10:36 2020  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 86    | 0.01     |
| 2 T  | Dichlorodifluoromethane     | 1.350 | 1.513 | -12.1 | 112   | 0.01     |
| 3    | Chlorodifluoromethane       | 1.105 | 1.059 | 4.2   | 92    | 0.01     |
| 4    | Chloromethane               | 0.619 | 0.597 | 3.6   | 91    | 0.01     |
| 5 T  | Vinyl Chloride              | 0.589 | 0.599 | -1.7  | 93    | 0.01     |
| 6 T  | Bromomethane                | 0.366 | 0.381 | -4.1  | 97    | 0.01     |
| 7    | Chloroethane                | 0.222 | 0.230 | -3.6  | 97    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.448 | 1.416 | 2.2   | 95    | 0.01     |
| 9 T  | Propene                     | 0.437 | 0.435 | 0.5   | 90    | 0.01     |
| 10 T | Heptane                     | 1.134 | 1.184 | -4.4  | 90    | 0.02     |
| 11 T | Trichlorofluoromethane      | 1.443 | 1.480 | -2.6  | 99    | 0.01     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.998 | 1.056 | -5.8  | 101   | 0.01     |
| 13   | Ethanol                     | 0.165 | 0.115 | 30.3# | 90    | 0.01     |
| 14 T | Bromoethene                 | 0.430 | 0.449 | -4.4  | 95    | 0.01     |
| 15 T | Acetone                     | 1.209 | 1.125 | 6.9   | 98    | 0.02     |
| 16 T | 1,3-Butadiene               | 0.530 | 0.547 | -3.2  | 93    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.071 | 1.182 | -10.4 | 99    | 0.02     |
| 18 T | 1,1-Dichloroethene          | 0.450 | 0.486 | -8.0  | 99    | 0.01     |
| 19 T | Isopropyl Alcohol           | 0.785 | 0.807 | -2.8  | 98    | 0.02     |
| 20 T | Methylene Chloride          | 0.489 | 0.434 | 11.2  | 102   | 0.02     |
| 21 T | Allyl Chloride              | 0.719 | 0.769 | -7.0  | 94    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.421 | 0.474 | -12.6 | 101   | 0.01     |
| 23 T | Vinyl Acetate               | 1.468 | 1.567 | -6.7  | 92    | 0.02     |
| 24 T | 1,1-Dichloroethane          | 1.237 | 1.245 | -0.6  | 95    | 0.01     |
| 25 T | Ethyl Acetate               | 2.182 | 2.113 | 3.2   | 92    | 0.01     |
| 26 T | Hexane                      | 0.984 | 0.957 | 2.7   | 94    | 0.01     |
| 27 T | Carbon Disulfide            | 1.018 | 1.266 | -24.4 | 102   | 0.02     |
| 28 T | Methyl tert-Butyl Ether     | 1.382 | 1.452 | -5.1  | 93    | 0.02     |
| 29 T | Chloroform                  | 1.539 | 1.488 | 3.3   | 93    | 0.02     |
| 30 T | Cyclohexane                 | 0.706 | 0.772 | -9.3  | 89    | 0.01     |
| 31 T | cis-1,2-Dichloroethene      | 0.907 | 0.952 | -5.0  | 91    | 0.02     |
| 32 T | 1,1,1-Trichloroethane       | 1.428 | 1.443 | -1.1  | 93    | 0.01     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.02     |
| 34 T | 2-Butanone                  | 0.574 | 0.557 | 3.0   | 91    | 0.02     |
| 35 T | Carbon Tetrachloride        | 0.600 | 0.623 | -3.8  | 94    | 0.02     |
| 36 T | Benzene                     | 0.774 | 0.773 | 0.1   | 90    | 0.02     |
| 37 T | 1,2-Dichloroethane          | 0.489 | 0.491 | -0.4  | 94    | 0.02     |
| 38 T | Trichloroethene             | 0.301 | 0.308 | -2.3  | 92    | 0.02     |
| 39 T | 1,2-Dichloropropane         | 0.303 | 0.304 | -0.3  | 91    | 0.02     |
| 40 T | 1,4-Dioxane                 | 0.119 | 0.120 | -0.8  | 100   | 0.02     |
| 41 T | Tetrahydrofuran             | 0.293 | 0.308 | -5.1  | 90    | 0.01     |
| 42 T | Bromodichloromethane        | 0.634 | 0.653 | -3.0  | 91    | 0.01     |
| 43   | Methyl Methacrylate         | 0.328 | 0.356 | -8.5  | 91    | 0.02     |
| 44 T | 2,2,4-Trimethylpentane      | 1.352 | 1.334 | 1.3   | 91    | 0.02     |
| 45 T | t-1,3-Dichloropropene       | 0.319 | 0.391 | -22.6 | 90    | 0.02     |

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 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.396 | 0.459 | -15.9 | 90    | 0.02     |
| 47 T | 1,1,2-Trichloroethane     | 0.331 | 0.320 | 3.3   | 89    | 0.01     |
| 48 T | Dibromochloromethane      | 0.493 | 0.538 | -9.1  | 91    | 0.02     |
| 49 T | Bromoform                 | 0.419 | 0.449 | -7.2  | 87    | 0.02     |
| 50 T | 4-Methyl-2-Pentanone      | 0.816 | 0.833 | -2.1  | 91    | 0.02     |
| 51 T | 2-Hexanone                | 0.639 | 0.663 | -3.8  | 88    | 0.02     |
| 52 T | Tetrachloroethene         | 0.273 | 0.272 | 0.4   | 90    | 0.01     |
| 53 T | Toluene                   | 0.826 | 0.893 | -8.1  | 90    | 0.02     |
| 54 T | 1,2-Dibromoethane         | 0.489 | 0.479 | 2.0   | 89    | 0.02     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 88    | 0.02     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.409 | 0.389 | 4.9   | 91    | 0.01     |
| 57 T | Chlorobenzene             | 0.736 | 0.648 | 12.0  | 89    | 0.02     |
| 58 T | Ethyl Benzene             | 1.124 | 1.142 | -1.6  | 90    | 0.02     |
| 59 T | m/p-Xylene                | 0.996 | 0.940 | 5.6   | 89    | 0.02     |
| 60 T | o-Xylene                  | 0.991 | 0.935 | 5.7   | 90    | 0.02     |
| 61 T | Styrene                   | 0.624 | 0.655 | -5.0  | 88    | 0.02     |
| 62   | Isopropylbenzene          | 1.479 | 1.378 | 6.8   | 91    | 0.02     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.803 | 0.646 | 19.6  | 88    | 0.01     |
| 64   | n-propylbenzene           | 0.378 | 0.361 | 4.5   | 89    | 0.01     |
| 65   | tert-Butylbenzene         | 1.267 | 1.183 | 6.6   | 90    | 0.02     |
| 66 T | Benzyl Chloride           | 0.391 | 0.444 | -13.6 | 90    | 0.02     |
| 67   | sec-Butylbenzene          | 1.816 | 1.694 | 6.7   | 91    | 0.01     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.831 | 0.780 | 6.1   | 88    | 0.02     |
| 69   | p-Isopropyltoluene        | 1.448 | 1.423 | 1.7   | 93    | 0.02     |
| 70   | n-Butylbenzene            | 1.560 | 1.512 | 3.1   | 95    | 0.02     |
| 71   | 2-Chlorotoluene           | 1.118 | 1.052 | 5.9   | 89    | 0.01     |
| 72 T | 4-Ethyltoluene            | 1.103 | 1.080 | 2.1   | 89    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.042 | 1.014 | 2.7   | 91    | 0.01     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.163 | 1.070 | 8.0   | 93    | 0.02     |
| 75 T | 1,3-Dichlorobenzene       | 0.694 | 0.623 | 10.2  | 94    | 0.02     |
| 76 T | 1,4-Dichlorobenzene       | 0.664 | 0.612 | 7.8   | 92    | 0.02     |
| 77 T | 1,2-Dichlorobenzene       | 0.635 | 0.597 | 6.0   | 96    | 0.01     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.571 | 0.575 | -0.7  | 113   | 0.01     |
| 79 T | Naphthalene               | 1.020 | 1.273 | -24.8 | 114   | 0.02     |
| 80 T | Naphthalene,2-methyl-     | 0.390 | 0.472 | -21.0 | 90    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.588 | 0.667 | -13.4 | 112   | 0.01     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0