

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL032019\  
 Data File : VL033390.D  
 Acq On : 20 Mar 2019 14:02  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 21 16:35:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Mar 15 14:52:14 2019  
 QLast Update : Fri Mar 15 14:52:14 2019  
 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   | 88    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.759 | 1.644 | 6.5   | 85    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.148 | 1.221 | -6.4  | 99    | 0.00     |
| 4    | Chloromethane               | 0.622 | 0.656 | -5.5  | 100   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.641 | 0.650 | -1.4  | 101   | 0.00     |
| 6 T  | Bromomethane                | 0.381 | 0.405 | -6.3  | 96    | 0.00     |
| 7    | Chloroethane                | 0.224 | 0.242 | -8.0  | 102   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.497 | 1.642 | -9.7  | 102   | 0.00     |
| 9 T  | Propene                     | 0.512 | 0.518 | -1.2  | 97    | 0.00     |
| 10 T | Heptane                     | 1.271 | 1.388 | -9.2  | 98    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.751 | 1.843 | -5.3  | 97    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.162 | 1.230 | -5.9  | 98    | 0.00     |
| 13   | Ethanol                     | 0.244 | 0.114 | 53.3# | 95    | 0.00     |
| 14 T | Bromoethene                 | 0.484 | 0.514 | -6.2  | 98    | 0.00     |
| 15 T | Acetone                     | 1.554 | 1.126 | 27.5  | 91    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.505 | 0.581 | -15.0 | 107   | 0.00     |
| 17   | tert-Butyl alcohol          | 0.219 | 0.227 | -3.7  | 104   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.531 | 0.544 | -2.4  | 97    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.739 | 0.748 | -1.2  | 102   | 0.00     |
| 20 T | Methylene Chloride          | 0.507 | 0.458 | 9.7   | 97    | 0.00     |
| 21 T | Allyl Chloride              | 0.754 | 0.824 | -9.3  | 95    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.515 | 0.560 | -8.7  | 99    | 0.00     |
| 23 T | Vinyl Acetate               | 1.799 | 1.859 | -3.3  | 93    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.299 | 1.368 | -5.3  | 98    | 0.00     |
| 25 T | Ethyl Acetate               | 2.260 | 2.329 | -3.1  | 97    | 0.00     |
| 26 T | Hexane                      | 1.010 | 1.017 | -0.7  | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 1.163 | 1.355 | -16.5 | 97    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.500 | 1.576 | -5.1  | 94    | 0.00     |
| 29 T | Chloroform                  | 1.654 | 1.766 | -6.8  | 99    | 0.00     |
| 30 T | Cyclohexane                 | 0.810 | 0.855 | -5.6  | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.010 | 1.073 | -6.2  | 94    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.624 | 1.746 | -7.5  | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 34 T | 2-Butanone                  | 0.657 | 0.657 | 0.0   | 92    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.705 | 0.827 | -17.3 | 99    | 0.00     |
| 36 T | Benzene                     | 0.895 | 0.940 | -5.0  | 93    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.566 | 0.608 | -7.4  | 97    | 0.00     |
| 38 T | Trichloroethene             | 0.339 | 0.374 | -10.3 | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.335 | 0.361 | -7.8  | 94    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.118 | 0.120 | -1.7  | 92    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.350 | 0.378 | -8.0  | 91    | 0.00     |
| 42 T | Bromodichloromethane        | 0.759 | 0.857 | -12.9 | 95    | 0.00     |
| 43   | Methyl Methacrylate         | 0.348 | 0.389 | -11.8 | 93    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.482 | 1.620 | -9.3  | 96    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.430 | 0.529 | -23.0 | 90    | 0.00     |

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|      | Compound                  | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 0.507 | 0.596 | -17.6 | 92    | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.370 | 0.401 | -8.4  | 93    | 0.00     |
| 48 T | Dibromochloromethane      | 0.621 | 0.734 | -18.2 | 88    | 0.00     |
| 49 T | Bromoform                 | 0.589 | 0.674 | -14.4 | 90    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.928 | 1.010 | -8.8  | 95    | 0.00     |
| 51 T | 2-Hexanone                | 0.716 | 0.789 | -10.2 | 93    | 0.00     |
| 52 T | Tetrachloroethene         | 0.373 | 0.370 | 0.8   | 88    | 0.00     |
| 53 T | Toluene                   | 1.017 | 1.145 | -12.6 | 94    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.626 | 0.660 | -5.4  | 88    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.447 | 0.484 | -8.3  | 90    | 0.00     |
| 57 T | Chlorobenzene             | 0.792 | 0.806 | -1.8  | 89    | 0.00     |
| 58 T | Ethyl Benzene             | 1.415 | 1.482 | -4.7  | 86    | 0.00     |
| 59 T | m/p-Xylene                | 1.216 | 1.265 | -4.0  | 88    | 0.02     |
| 60 T | o-Xylene                  | 1.186 | 1.259 | -6.2  | 90    | 0.00     |
| 61 T | Styrene                   | 0.830 | 0.902 | -8.7  | 86    | 0.00     |
| 62   | Isopropylbenzene          | 1.649 | 1.709 | -3.6  | 87    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.857 | 0.866 | -1.1  | 90    | 0.00     |
| 64   | n-propylbenzene           | 0.417 | 0.439 | -5.3  | 88    | 0.00     |
| 65   | tert-Butylbenzene         | 1.484 | 1.566 | -5.5  | 89    | 0.00     |
| 66 T | Benzyl Chloride           | 0.613 | 0.785 | -28.1 | 81    | 0.00     |
| 67   | sec-Butylbenzene          | 2.104 | 2.215 | -5.3  | 88    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.741 | 0.703 | 5.1   | 78    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.719 | 1.827 | -6.3  | 87    | 0.00     |
| 70   | n-Butylbenzene            | 1.833 | 1.919 | -4.7  | 88    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.284 | 1.321 | -2.9  | 86    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.347 | 1.419 | -5.3  | 86    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.312 | 1.370 | -4.4  | 86    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.390 | 1.432 | -3.0  | 88    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.819 | 0.821 | -0.2  | 87    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.793 | 0.816 | -2.9  | 86    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.776 | 0.801 | -3.2  | 88    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.465 | 0.446 | 4.1   | 89    | 0.00     |
| 79 T | Naphthalene               | 1.339 | 1.278 | 4.6   | 80    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.635 | 0.502 | 20.9  | 62    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.683 | 0.668 | 2.2   | 84    | 0.00     |

(#) = Out of Range

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