

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL120320\  
 Data File : VL036062.D  
 Acq On : 3 Dec 2020 22:27  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Dec 05 16:33:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Dec 03 14:59:53 2020  
 QLast Update : Thu Dec 03 14:59:53 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    | 109   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.741 | 1.574 | 9.6    | 98    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.180 | 1.175 | 0.4    | 116   | 0.00     |
| 4    | Chloromethane               | 0.577 | 0.593 | -2.8   | 120   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.733 | 0.732 | 0.1    | 116   | 0.00     |
| 6 T  | Bromomethane                | 0.577 | 0.584 | -1.2   | 113   | 0.00     |
| 7    | Chloroethane                | 0.263 | 0.276 | -4.9   | 118   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 2.053 | 2.041 | 0.6    | 112   | 0.00     |
| 9 T  | Propene                     | 0.412 | 0.458 | -11.2  | 122   | 0.00     |
| 10 T | Heptane                     | 1.124 | 1.273 | -13.3  | 113   | 0.00     |
| 11 T | Trichlorofluoromethane      | 2.359 | 2.233 | 5.3    | 108   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.775 | 1.687 | 5.0    | 108   | 0.00     |
| 13   | Ethanol                     | 0.083 | 0.071 | 14.5   | 112   | 0.00     |
| 14 T | Bromoethene                 | 0.719 | 0.747 | -3.9   | 113   | 0.00     |
| 15 T | Acetone                     | 1.039 | 0.971 | 6.5    | 114   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.457 | 0.473 | -3.5   | 116   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.139 | 1.173 | -3.0   | 111   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.787 | 0.792 | -0.6   | 112   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.557 | 0.556 | 0.2    | 119   | 0.00     |
| 20 T | Methylene Chloride          | 0.899 | 0.670 | 25.5   | 113   | 0.00     |
| 21 T | Allyl Chloride              | 0.554 | 0.626 | -13.0  | 121   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.782 | 0.793 | -1.4   | 109   | 0.00     |
| 23 T | Vinyl Acetate               | 1.227 | 1.409 | -14.8  | 120   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.401 | 1.412 | -0.8   | 115   | 0.00     |
| 25 T | Ethyl Acetate               | 2.089 | 2.173 | -4.0   | 116   | 0.00     |
| 26 T | Hexane                      | 1.109 | 1.144 | -3.2   | 115   | 0.00     |
| 27 T | Carbon Disulfide            | 1.616 | 1.788 | -10.6  | 112   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 1.654 | 1.851 | -11.9  | 120   | 0.00     |
| 29 T | Chloroform                  | 2.096 | 2.106 | -0.5   | 111   | 0.00     |
| 30 T | Cyclohexane                 | 1.047 | 1.158 | -10.6  | 115   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.015 | 1.174 | -15.7  | 120   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.922 | 2.002 | -4.2   | 113   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 108   | 0.00     |
| 34 T | 2-Butanone                  | 0.343 | 0.377 | -9.9   | 116   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.523 | 0.553 | -5.7   | 110   | 0.00     |
| 36 T | Benzene                     | 0.684 | 0.772 | -12.9  | 116   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.355 | 0.375 | -5.6   | 113   | 0.00     |
| 38 T | Trichloroethene             | 0.306 | 0.342 | -11.8  | 111   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.262 | 0.276 | -5.3   | 116   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.087 | 0.103 | -18.4  | 116   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.179 | 0.223 | -24.6  | 121   | 0.00     |
| 42 T | Bromodichloromethane        | 0.561 | 0.629 | -12.1  | 115   | 0.00     |
| 43   | Methyl Methacrylate         | 0.249 | 0.319 | -28.1  | 117   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.014 | 1.085 | -7.0   | 113   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.236 | 0.321 | -36.0# | 114   | 0.00     |

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 VSTDCCC010

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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   | 0.316 | 0.413 | -30.7#  | 116   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 0.328 | 0.351 | -7.0    | 113   | 0.00     |
| 48 T | Dibromochloromethane      | 0.462 | 0.542 | -17.3   | 111   | 0.00     |
| 49 T | Bromoform                 | 0.343 | 0.420 | -22.4   | 110   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.521 | 0.590 | -13.2   | 111   | 0.00     |
| 51 T | 2-Hexanone                | 0.377 | 0.468 | -24.1   | 112   | 0.00     |
| 52 T | Tetrachloroethene         | 0.265 | 0.304 | -14.7   | 113   | 0.00     |
| 53 T | Toluene                   | 0.745 | 0.910 | -22.1   | 113   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.466 | 0.516 | -10.7   | 112   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0     | 112   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.408 | 0.425 | -4.2    | 110   | 0.00     |
| 57 T | Chlorobenzene             | 0.738 | 0.727 | 1.5     | 111   | 0.00     |
| 58 T | Ethyl Benzene             | 0.989 | 1.161 | -17.4   | 111   | 0.00     |
| 59 T | m/p-Xylene                | 0.902 | 0.983 | -9.0    | 109   | 0.00     |
| 60 T | o-Xylene                  | 0.910 | 0.964 | -5.9    | 109   | 0.00     |
| 61 T | Styrene                   | 0.515 | 0.678 | -31.7#  | 111   | 0.00     |
| 62   | Isopropylbenzene          | 1.351 | 1.398 | -3.5    | 109   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.763 | 0.687 | 10.0    | 109   | 0.00     |
| 64   | n-propylbenzene           | 0.356 | 0.399 | -12.1   | 109   | 0.00     |
| 65   | tert-Butylbenzene         | 1.132 | 1.209 | -6.8    | 109   | 0.00     |
| 66 T | Benzyl Chloride           | 0.273 | 0.345 | -26.4   | 109   | 0.00     |
| 67   | sec-Butylbenzene          | 1.547 | 1.624 | -5.0    | 108   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.764 | 0.754 | 1.3     | 106   | 0.00     |
| 69   | p-Isopropyltoluene        | 1.168 | 1.302 | -11.5   | 108   | 0.00     |
| 70   | n-Butylbenzene            | 1.156 | 1.279 | -10.6   | 108   | 0.00     |
| 71   | 2-Chlorotoluene           | 0.929 | 1.034 | -11.3   | 109   | 0.00     |
| 72 T | 4-Ethyltoluene            | 0.937 | 1.081 | -15.4   | 109   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 0.878 | 0.982 | -11.8   | 108   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 0.980 | 1.023 | -4.4    | 107   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.592 | 0.597 | -0.8    | 108   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.560 | 0.582 | -3.9    | 110   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.543 | 0.551 | -1.5    | 109   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.299 | 0.308 | -3.0    | 113   | 0.00     |
| 79 T | Naphthalene               | 0.457 | 0.648 | -41.8#  | 111   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.093 | 0.215 | -131.2# | 140   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.314 | 0.377 | -20.1   | 110   | 0.00     |

(#) = Out of Range

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