

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\  
 Data File : VL032023.D  
 Acq On : 1 Jun 2018 11:33  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL053118

Quant Time: Jun 04 09:39:10 2018  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 01 02:31:35 2018  
 QLast Update : Fri Jun 01 02:31:35 2018  
 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                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 108   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 6.951  | 30.5# | 92    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 8.904  | 11.0  | 107   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.138  | 8.6   | 108   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.567  | 14.3  | 107   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 8.719  | 12.8  | 103   | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.398  | 16.0  | 105   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 8.388  | 16.1  | 103   | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.705 | -7.1  | 109   | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.931  | 0.7   | 103   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 7.197  | 28.0  | 98    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 8.694  | 13.1  | 103   | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.142  | 18.6  | 109   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 8.520  | 14.8  | 106   | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.820  | 21.8  | 103   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.486  | 5.1   | 99    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.682 | -6.8  | 120   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.387  | 6.1   | 114   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.431  | 15.7  | 98    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 8.684  | 13.2  | 112   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.726  | 2.7   | 109   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 11.477 | -14.8 | 130   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.961  | 0.4   | 107   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 8.652  | 13.5  | 101   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.852  | 1.5   | 110   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.919  | 0.8   | 108   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 9.830  | 1.7   | 102   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.949  | 0.5   | 105   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.256  | 7.4   | 106   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 10.719 | -7.2  | 109   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.499 | -5.0  | 108   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.049  | 9.5   | 105   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 105   | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 10.361 | -3.6  | 110   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 8.722  | 12.8  | 100   | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.358 | -3.6  | 110   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 11.674 | -16.7 | 127   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.579 | -5.8  | 105   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.953  | 0.5   | 107   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.945  | 0.5   | 104   | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 11.881 | -18.8 | 111   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.466  | 5.3   | 103   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.930 | -9.3  | 104   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.750  | 2.5   | 104   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 11.960 | -19.6 | 106   | 0.00     |

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

|      | Compound                  | Amount | Calc.  | %Dev    | Area% | Dev(min) |
|------|---------------------------|--------|--------|---------|-------|----------|
| 46 T | cis-1,3-Dichloropropene   | 10.000 | 11.270 | -12.7   | 104   | 0.00     |
| 47 T | 1,1,2-Trichloroethane     | 10.000 | 9.634  | 3.7     | 107   | 0.00     |
| 48 T | Dibromochloromethane      | 10.000 | 9.951  | 0.5     | 105   | 0.00     |
| 49 T | Bromoform                 | 10.000 | 10.091 | -0.9    | 101   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.325 | -3.2    | 105   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 10.980 | -9.8    | 105   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.963  | 0.4     | 105   | 0.00     |
| 53 T | Toluene                   | 10.000 | 10.990 | -9.9    | 106   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.188 | -1.9    | 107   | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0     | 101   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.296  | 7.0     | 103   | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.289  | 7.1     | 104   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 10.819 | -8.2    | 104   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 20.221 | -1.1    | 102   | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 10.218 | -2.2    | 101   | 0.00     |
| 61 T | Styrene                   | 10.000 | 12.975 | -29.8   | 104   | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 10.031 | -0.3    | 102   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.677  | 13.2    | 100   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 10.112 | -1.1    | 101   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 9.794  | 2.1     | 100   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 9.321  | 6.8     | 97    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.535  | 4.6     | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 9.899  | 1.0     | 102   | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.964  | 0.4     | 100   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.846  | 1.5     | 100   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 10.318 | -3.2    | 101   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 10.647 | -6.5    | 100   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 10.244 | -2.4    | 100   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 9.657  | 3.4     | 100   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 8.895  | 11.1    | 99    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.414  | 5.9     | 99    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.072  | 9.3     | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 12.930 | -29.3   | 170   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 12.476 | -24.8   | 102   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 28.894 | -188.9# | 120   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 11.254 | -12.5   | 104   | 0.00     |

(#) = Out of Range

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