

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\  
 Data File : VU039647.D  
 Acq On : 23 Jul 2020 19:47  
 Operator : SY/MD  
 Sample : MDL01  
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL01

Manual Integrations  
 APPROVED

sam  
 7/30/2020 2:58:00 AM

Quant Time: Jul 29 08:51:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 24 01:59:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 190400   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 181008   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 84753    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.60    | 65    | 54392    | 43.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.76% |
| 7) Chloroethane-d5             | 1.92    | 69    | 64325    | 43.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58    | 63    | 89676    | 34.18    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.36% |
| 21) 2-Butanone-d5              | 4.65    | 46    | 132332   | 92.48    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.48% |
| 24) Chloroform-d               | 5.09    | 84    | 125908   | 45.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.34% |
| 26) 1,2-Dichloroethane-d4      | 5.72    | 65    | 91983    | 46.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.34% |
| 32) Benzene-d6                 | 5.75    | 84    | 240400   | 47.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.66% |
| 36) 1,2-Dichloropropane-d6     | 6.70    | 67    | 79781    | 48.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.82% |
| 41) Toluene-d8                 | 7.91    | 98    | 217718   | 46.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.06% |
| 43) trans-1,3-Dichloropropene- | 8.19    | 79    | 36122    | 43.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.84% |
| 47) 2-Hexanone-d5              | 8.64    | 63    | 84078    | 93.52    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76   | 84    | 119258   | 45.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.38% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19   | 152   | 88099    | 47.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.08% |

## Target Compounds

|                                |      |     |       | Ovalue          |
|--------------------------------|------|-----|-------|-----------------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 2489  | 1.919 ug/L 97   |
| 3) Chloromethane               | 1.53 | 50  | 2894  | 2.148 ug/L 100  |
| 5) Vinyl chloride              | 1.61 | 62  | 3174  | 2.318 ug/L # 68 |
| 6) Bromomethane                | 1.87 | 94  | 2415  | 2.347 ug/L 100  |
| 8) Chloroethane                | 1.94 | 64  | 3221  | 2.645 ug/L 92   |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 4906  | 2.027 ug/L 92   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 2949  | 2.532 ug/L # 76 |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 2952  | 2.718 ug/L # 1  |
| 13) Acetone                    | 2.66 | 43  | 3443m | 3.615 ug/L      |
| 14) Carbon disulfide           | 2.81 | 76  | 7362  | 2.118 ug/L 99   |
| 15) Methyl Acetate             | 2.97 | 43  | 3299m | 1.934 ug/L      |
| 16) Methylene chloride         | 3.06 | 84  | 2903  | 2.232 ug/L 87   |
| 17) trans-1,2-Dichloroethene   | 3.38 | 96  | 2661  | 2.202 ug/L 86   |
| 18) Methyl tert-butyl Ether    | 3.39 | 73  | 7810  | 2.000 ug/L # 79 |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 5062  | 2.146 ug/L # 90 |
| 20) cis-1,2-Dichloroethene     | 4.69 | 96  | 2631  | 1.905 ug/L 92   |
| 22) 2-Butanone                 | 4.73 | 43  | 5561m | 4.144 ug/L      |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 5.00  | 128  | 1475     | 2.125 | ug/L   | 93       |
| 25) Chloroform                  | 5.11  | 83   | 10686    | 4.085 | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 4713     | 2.173 | ug/L # | 95       |
| 29) Cyclohexane                 | 5.41  | 56   | 4048     | 2.058 | ug/L   | 90       |
| 30) 1,1,1-Trichloroethane       | 5.34  | 97   | 4698     | 2.168 | ug/L   | 93       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 3553     | 1.977 | ug/L   | 92       |
| 33) Benzene                     | 5.79  | 78   | 11066    | 2.218 | ug/L   | 100      |
| 34) Trichloroethene             | 6.56  | 95   | 2638     | 1.999 | ug/L   | 86       |
| 35) Methylcyclohexane           | 6.77  | 83   | 3805     | 1.865 | ug/L # | 86       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 3205     | 2.373 | ug/L # | 89       |
| 38) Bromodichloromethane        | 7.11  | 83   | 3774     | 2.104 | ug/L # | 92       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 3875     | 1.920 | ug/L   | 90       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 9141     | 3.885 | ug/L   | 98       |
| 42) Toluene                     | 7.98  | 91   | 11430    | 2.083 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.22  | 75   | 4374     | 2.213 | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 2617     | 2.032 | ug/L   | 95       |
| 46) Tetrachloroethene           | 8.56  | 164  | 2030     | 2.034 | ug/L # | 72       |
| 48) 2-Hexanone                  | 8.69  | 43   | 12390    | 6.462 | ug/L   | 93       |
| 49) Dibromochloromethane        | 8.82  | 129  | 2854     | 1.963 | ug/L   | 92       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 2640     | 1.842 | ug/L # | 88       |
| 51) Chlorobenzene               | 9.45  | 112  | 7135     | 2.038 | ug/L   | 98       |
| 52) Ethylbenzene                | 9.57  | 91   | 12006    | 1.980 | ug/L   | 97       |
| 53) m,p-Xylene                  | 9.70  | 106  | 4010     | 1.755 | ug/L   | 97       |
| 54) o-xylene                    | 10.10 | 106  | 4350     | 1.984 | ug/L   | 93       |
| 55) Styrene                     | 10.12 | 104  | 6430     | 1.694 | ug/L   | 100      |
| 56) Isopropylbenzene            | 10.48 | 105  | 11055    | 1.857 | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 5194     | 2.212 | ug/L # | 95       |
| 59) 1,2,3-Trichloropropane      | 10.83 | 75   | 3835     | 1.957 | ug/L   | 93       |
| 61) Bromoform                   | 10.29 | 173  | 1748     | 1.744 | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 5377     | 2.071 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 5857     | 2.252 | ug/L   | 93       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 5766     | 2.198 | ug/L   | 91       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 985m     | 1.877 | ug/L   |          |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 3767     | 2.012 | ug/L   | 92       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 3006     | 1.892 | ug/L # | 88       |
| 69) Naphthalene                 | 14.08 | 128  | 7936     | 1.665 | ug/L   | 97       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 2943     | 1.834 | ug/L   | 95       |

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

