

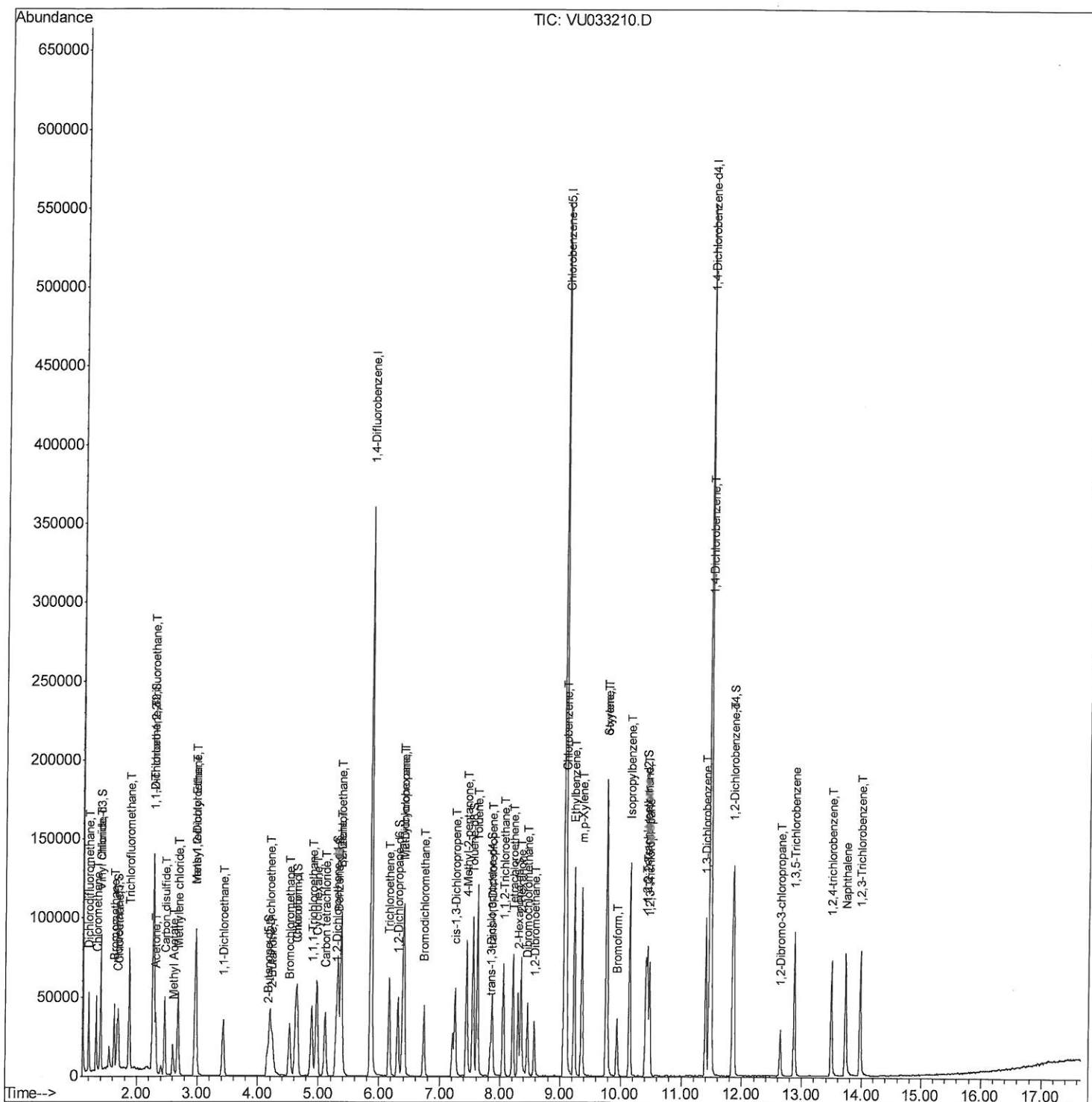
```
Data File : VU033210.D
Acq On    : 12 Jul 2019   09:41
Operator  : JC/SP
Sample    : VSTD01033
Misc      : 5.0mL/MSVOA_U/WATER
ALS Vial  : 3      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD01033

**Manual Integrations**  
**APPROVED**

MMDadoda  
7/15/2019 10:05:48 AM

Quant Time: Jul 12 23:37:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 12 23:28:24 2019  
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU071219\  
Quantitation Report (Qedit)

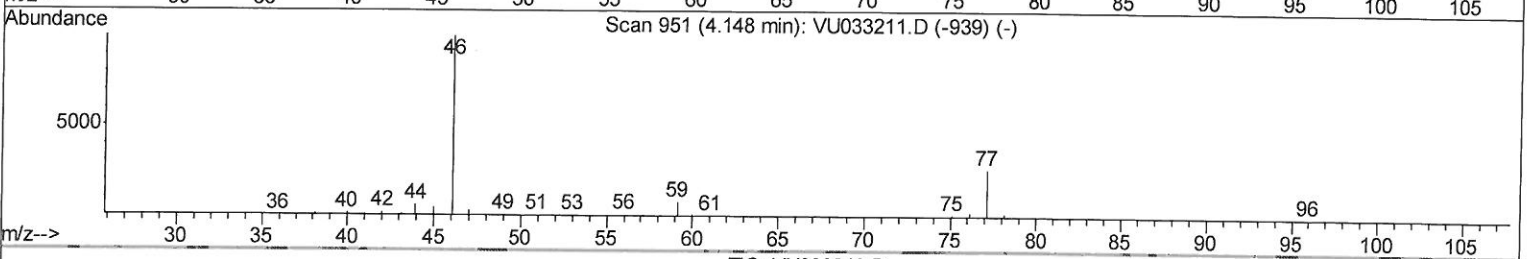
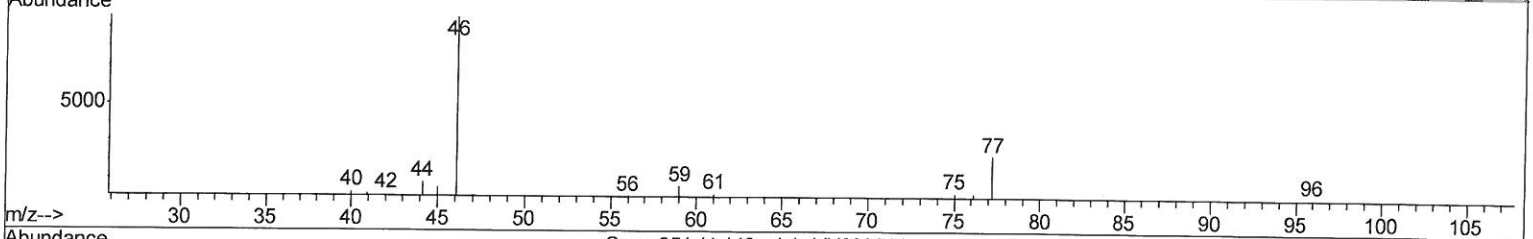
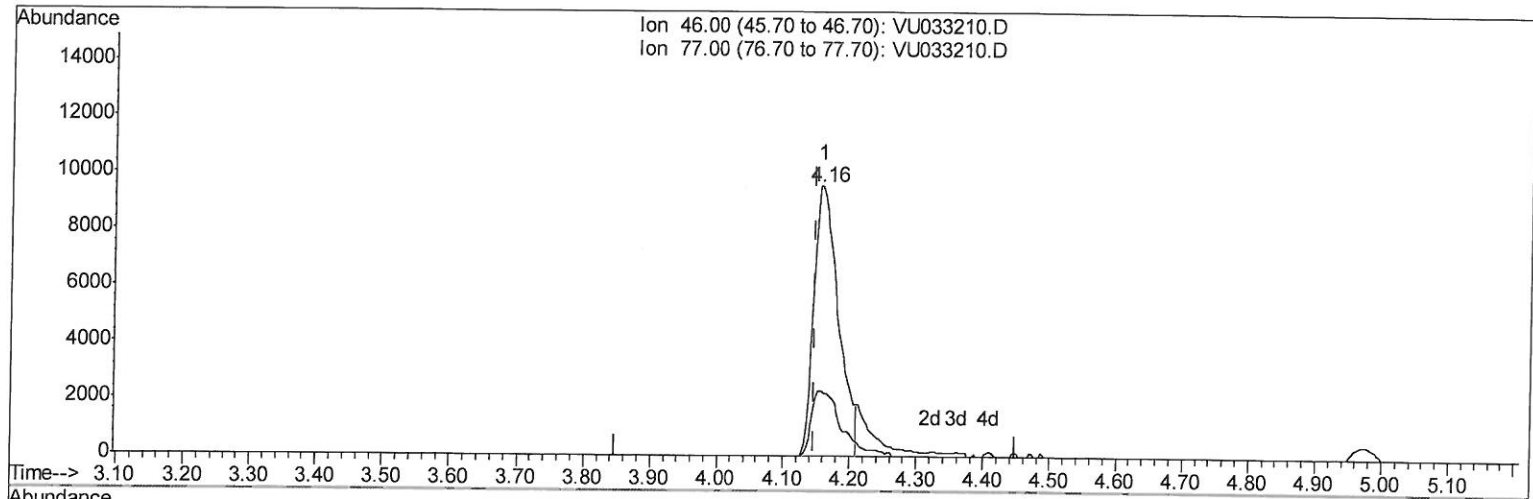
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TIC: VU033210.D

(21) 2-Butanone-d5 (S)

4.158min (+0.009) 14.89ug/L

response 24446

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 25.00 | 23.69 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU071219\  
Quantitation Report (Qedit)

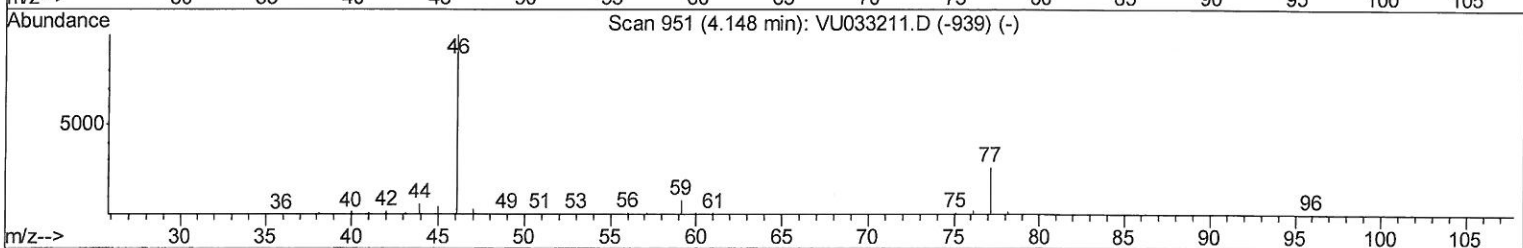
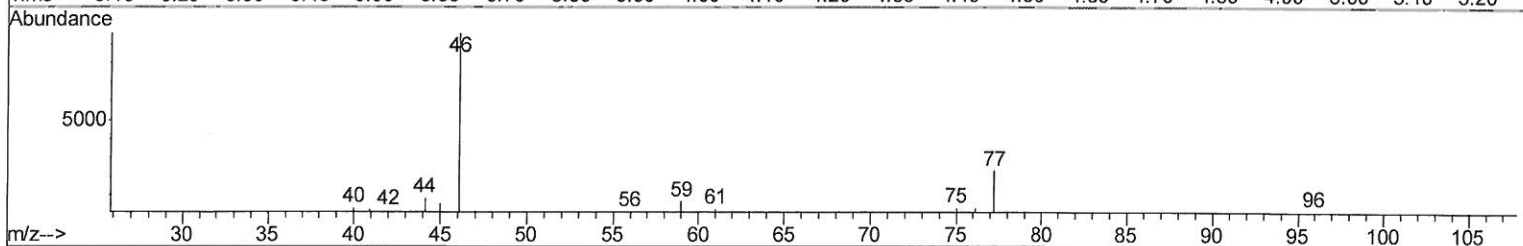
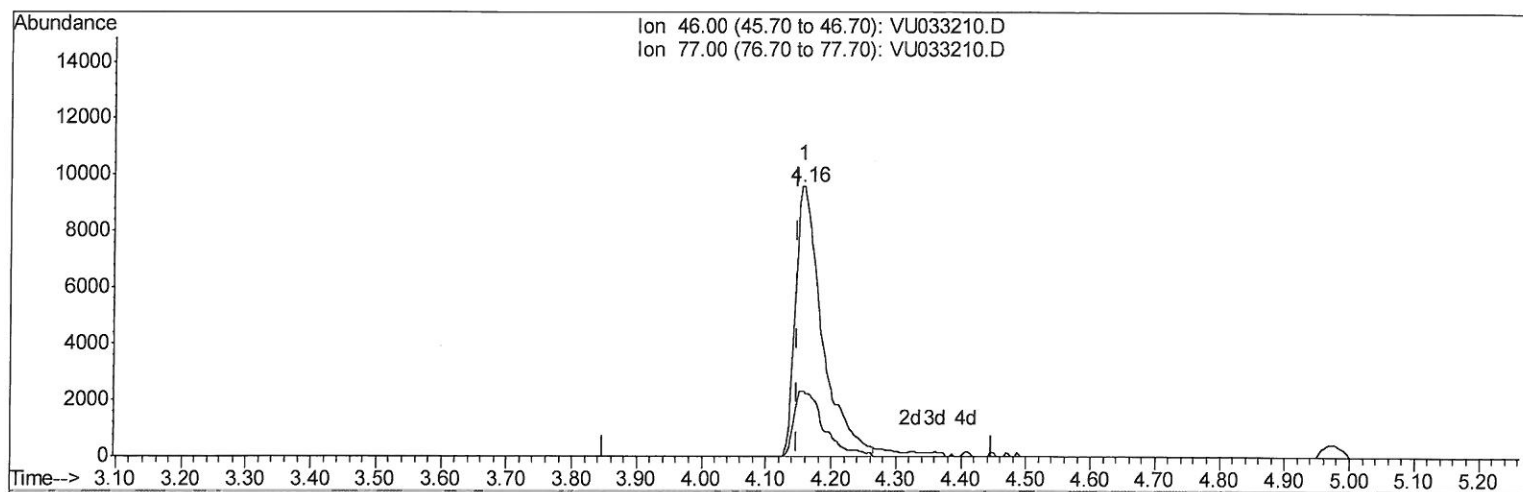
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TIC: VU033210.D

(21) 2-Butanone-d5 (S)

4.158min (+0.009) 16.58ug/L m

response 27209

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 25.00 | 21.29 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*7 MB*  
*7/17/19*

Data File : VU033210.D  
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Manual Integrations  
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Quant Title : VOC Analysis  
QLast Update : Fri Jul 12 23:28:24 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 300959   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 298317   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 139399   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.39  | 65  | 23336  | 11.22 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.67  | 69  | 20381  | 12.10 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.26  | 63  | 39633  | 9.48  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.16  | 46  | 27209m | 16.58 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.62  | 84  | 38465  | 9.82  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.29  | 65  | 25441  | 9.79  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.32  | 84  | 74584  | 9.85  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.31  | 67  | 24115  | 10.04 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.55  | 98  | 68396  | 9.62  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.84  | 79  | 10856  | 8.71  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.30  | 63  | 18806  | 16.74 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41 | 84  | 36505  | 9.78  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.85 | 152 | 25332  | 9.65  | ug/L | 0.00 |

7 MD  
7/17/19

#### Target Compounds

|                                |      |     |       |        | Qvalue |     |
|--------------------------------|------|-----|-------|--------|--------|-----|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 29053 | 9.707  | ug/L   | 99  |
| 3) Chloromethane               | 1.32 | 50  | 27862 | 10.076 | ug/L   | 98  |
| 5) Vinyl chloride              | 1.40 | 62  | 33172 | 11.755 | ug/L   | 99  |
| 6) Bromomethane                | 1.62 | 94  | 18083 | 10.967 | ug/L   | 96  |
| 8) Chloroethane                | 1.69 | 64  | 20423 | 12.319 | ug/L   | 97  |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 45385 | 11.609 | ug/L   | 97  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 20051 | 9.937  | ug/L   | 99  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 19453 | 10.145 | ug/L   | 91  |
| 13) Acetone                    | 2.31 | 43  | 39403 | 17.732 | ug/L   | 97  |
| 14) Carbon disulfide           | 2.46 | 76  | 59740 | 9.990  | ug/L   | 99  |
| 15) Methyl Acetate             | 2.60 | 43  | 23105 | 8.898  | ug/L   | 100 |
| 16) Methylene chloride         | 2.68 | 84  | 22779 | 10.284 | ug/L   | 98  |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 20045 | 9.814  | ug/L   | 98  |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 58557 | 9.004  | ug/L   | 97  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 39523 | 10.182 | ug/L   | 95  |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 22585 | 10.090 | ug/L   | 98  |
| 22) 2-Butanone                 | 4.24 | 43  | 38199 | 16.363 | ug/L   | 94  |
| 23) Bromochloromethane         | 4.52 | 128 | 11845 | 10.228 | ug/L   | 94  |
| 25) Chloroform                 | 4.65 | 83  | 42507 | 10.558 | ug/L   | 98  |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 32765 | 10.005 | ug/L   | 99  |
| 29) Cyclohexane                | 4.97 | 56  | 29502 | 8.668  | ug/L   | 99  |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 34419 | 9.721  | ug/L   | 99  |
| 31) Carbon tetrachloride       | 5.11 | 117 | 30029 | 9.372  | ug/L   | 99  |
| 33) Benzene                    | 5.37 | 78  | 84908 | 9.986  | ug/L   | 100 |
| 34) Trichloroethene            | 6.16 | 95  | 22263 | 9.867  | ug/L   | 95  |
| 35) Methylcyclohexane          | 6.40 | 83  | 31981 | 9.170  | ug/L   | 100 |
| 37) 1,2-Dichloropropane        | 6.41 | 63  | 23196 | 9.987  | ug/L   | 99  |
| 38) Bromodichloromethane       | 6.74 | 83  | 29603 | 9.533  | ug/L   | 96  |
| 39) cis-1,3-Dichloropropene    | 7.25 | 75  | 34178 | 9.534  | ug/L   | 98  |
| 40) 4-Methyl-2-pentanone       | 7.44 | 43  | 58838 | 16.303 | ug/L   | 97  |

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Quant Title : VOC Analysis  
QLast Update : Fri Jul 12 23:28:24 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.62  | 91   | 89221    | 9.697  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 29868    | 8.846  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 21704    | 10.019 | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.21  | 164  | 17251    | 9.419  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.35  | 43   | 46037    | 14.658 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.46  | 129  | 23512    | 9.137  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 23206    | 9.659  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.10  | 112  | 58965    | 9.755  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 92087    | 9.070  | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.36  | 106  | 33466    | 8.721  | ug/L  | 98       |
| 54) o-xylene                   | 9.76  | 106  | 34005    | 9.055  | ug/L  | 99       |
| 55) Styrene                    | 9.77  | 104  | 55555    | 8.554  | ug/L  | 95       |
| 56) Isopropylbenzene           | 10.15 | 105  | 85262    | 8.485  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 37855    | 9.640  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 29356    | 9.484  | ug/L  | 98       |
| 61) Bromoform                  | 9.94  | 173  | 16561    | 9.371  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 40275    | 9.441  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 43027    | 9.741  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 41533    | 9.513  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 8634     | 10.452 | ug/L  | 84       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 28467    | 8.405  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 23782    | 8.224  | ug/L  | 99       |
| 69) Naphthalene                | 13.73 | 128  | 68896    | 7.654  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 26536    | 8.644  | ug/L  | 96       |

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