

Data File : VU030597.D  
Acq On : 31 Mar 2019 17:58  
Operator : JC/SP  
Sample : K2167-01ME  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF2L9ME

Quant Time: Apr 01 02:11:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Apr 01 02:05:14 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 457337   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 461034   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 208951   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 138939   | 37.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.50% |
| 7) Chloroethane-d5             | 1.64    | 69    | 109713   | 37.61    | ug/L | -0.03  |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.22% |
| 11) 1,1-Dichloroethene-d2      | 2.23    | 63    | 218752   | 31.33    | ug/L | -0.04  |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.66% |
| 21) 2-Butanone-d5              | 4.20    | 46    | 291546   | 84.26    | ug/L | 0.02   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 84.26% |
| 24) Chloroform-d               | 4.64    | 84    | 265934   | 41.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.88% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 189915   | 45.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.54% |
| 32) Benzene-d6                 | 5.33    | 84    | 560086   | 42.36    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.72% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 199292   | 44.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.12% |
| 41) Toluene-d8                 | 7.56    | 98    | 486050   | 40.93    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 81.86% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 87031    | 40.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.84% |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 215208   | 87.79    | ug/L | 0.01   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.79% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 307623   | 47.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.04% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 194400   | 46.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.86% |

#### Target Compounds

|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 6) Bromomethane                | 1.60  | 94  | 1507  | 0.614 ug/L   | 90     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.23  | 101 | 1915  | 0.574 ug/L # | 21     |
| 25) Chloroform                 | 4.67  | 83  | 11560 | 1.726 ug/L   | 89     |
| 46) Tetrachloroethene          | 8.22  | 164 | 30394 | 11.279 ug/L  | 95     |
| 48) 2-Hexanone                 | 8.38  | 43  | 9792  | 1.597 ug/L # | 95     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 28234 | 5.208 ug/L # | 88     |

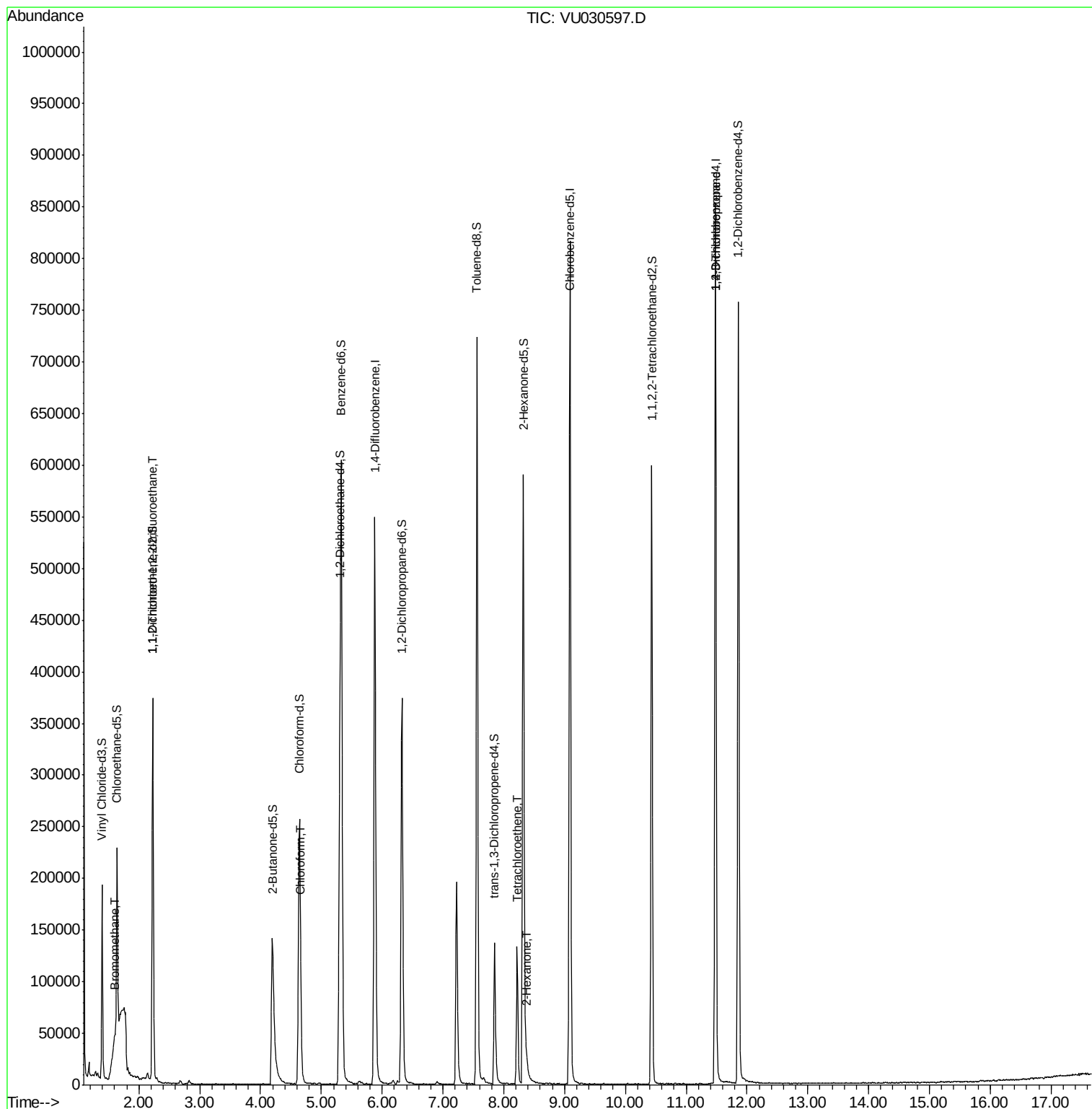
(#) = qualifier out of range (m) = manual integration (+) = signals summed

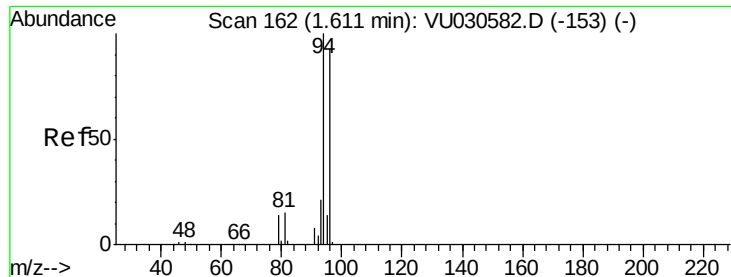
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Quant Title : VOC Analysis  
QLast Update : Mon Apr 01 02:05:14 2019  
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.614 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.01 min

Lab File: VU030597.D

Acq: 31 Mar 2019 17:58

Instrument :

MSVOA\_U

ClientSampleId :

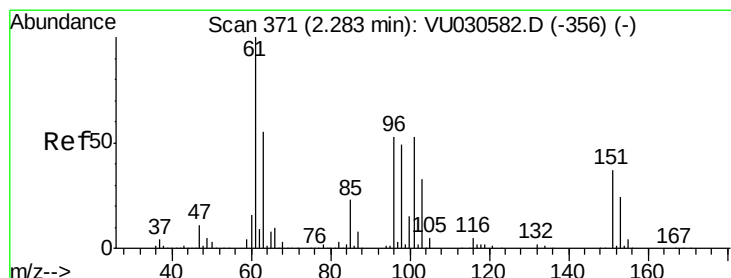
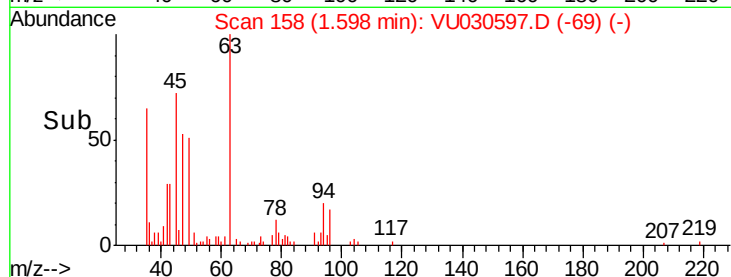
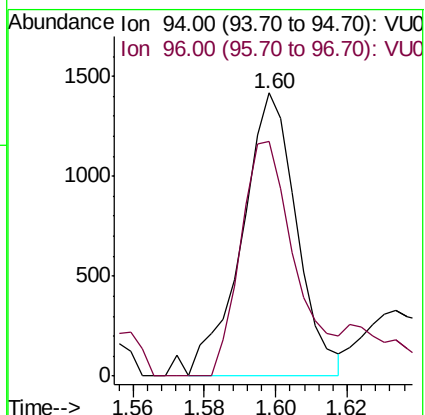
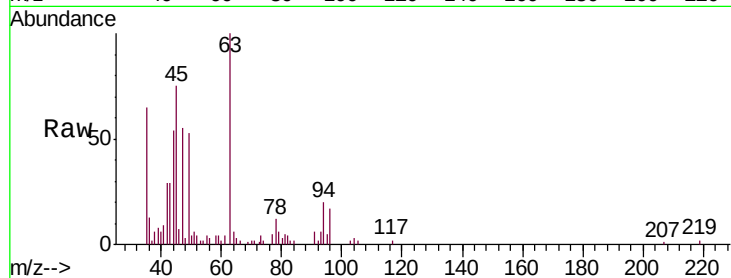
BF2L9ME

Tgt Ion: 94 Resp: 1507

Ion Ratio Lower Upper

94 100

96 83.1 64.8 120.3



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.574 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.06 min

Lab File: VU030597.D

Acq: 31 Mar 2019 17:58

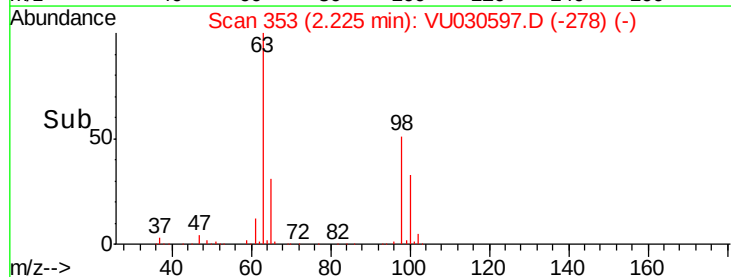
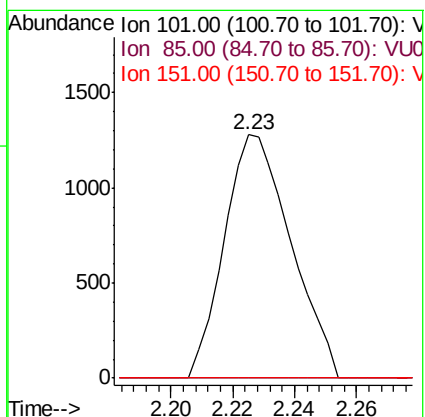
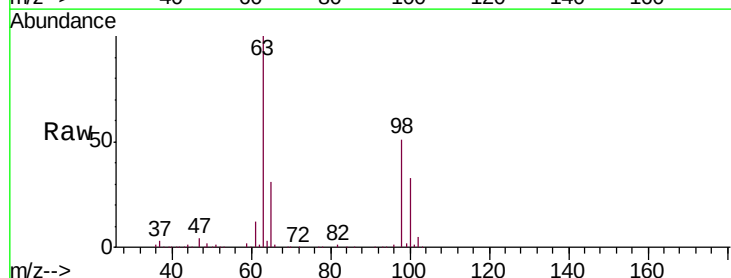
Tgt Ion: 101 Resp: 1915

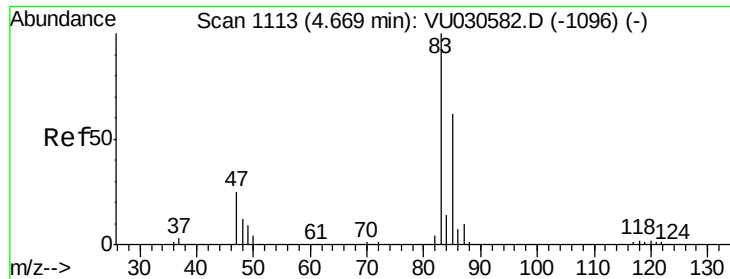
Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

151 0.0 56.6 85.0#

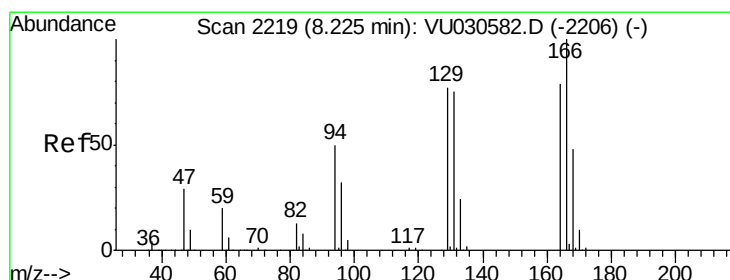
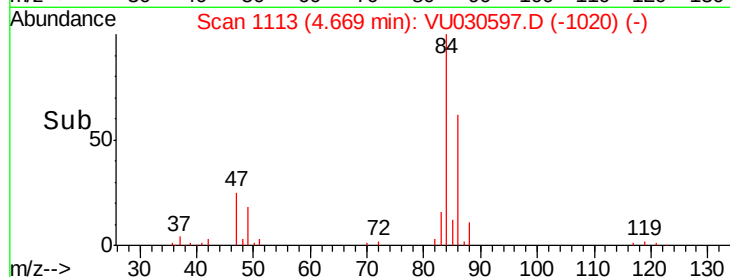
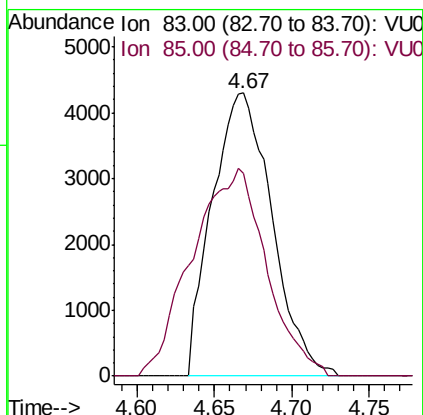
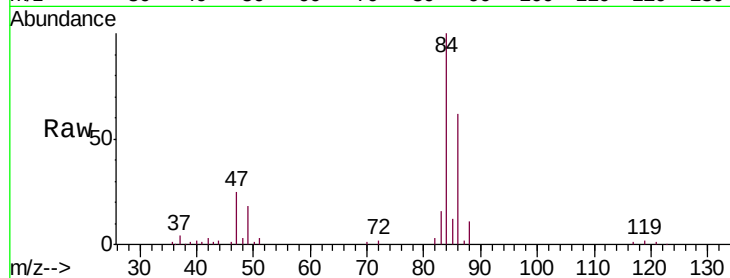




#25  
Chloroform  
Concen: 1.726 ug/L  
RT: 4.67 min Scan# 1113  
Delta R.T. -0.00 min  
Lab File: VU030597.D  
Acq: 31 Mar 2019 17:58

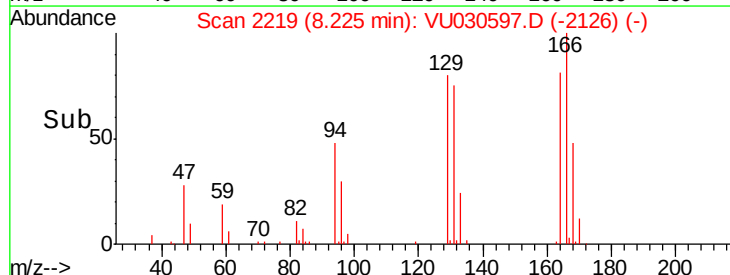
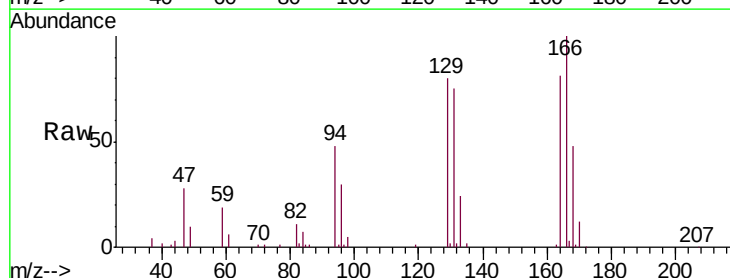
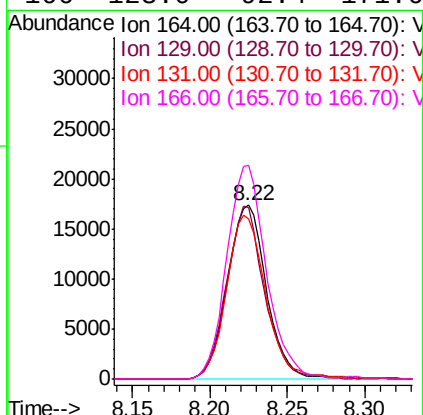
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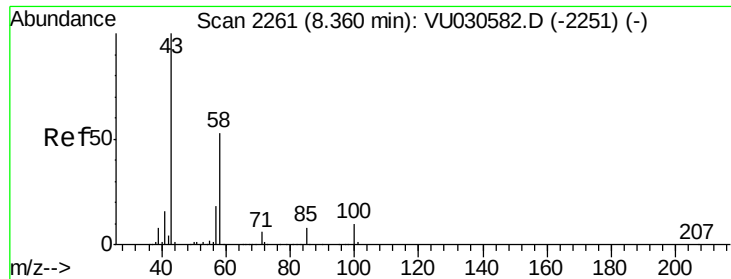
Tgt Ion: 83 Resp: 11560  
Ion Ratio Lower Upper  
83 100  
85 71.6 44.4 82.4



#46  
Tetrachloroethene  
Concen: 11.279 ug/L  
RT: 8.22 min Scan# 2219  
Delta R.T. 0.00 min  
Lab File: VU030597.D  
Acq: 31 Mar 2019 17:58

Tgt Ion: 164 Resp: 30394  
Ion Ratio Lower Upper  
164 100  
129 98.7 68.1 126.5  
131 92.4 67.7 125.7  
166 123.0 92.4 171.6

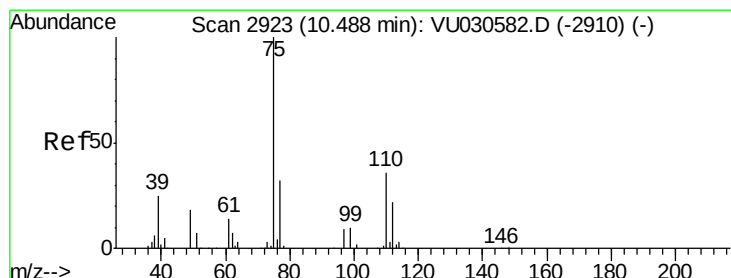
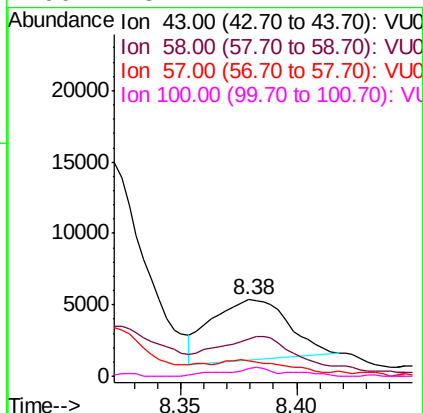
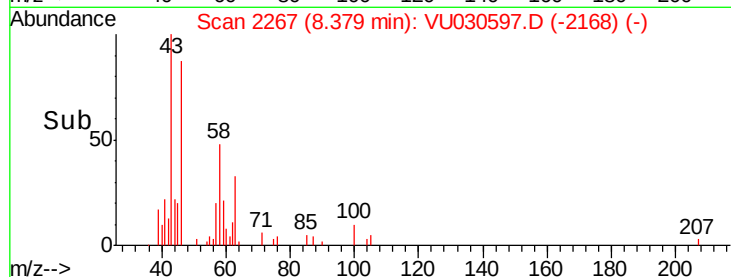
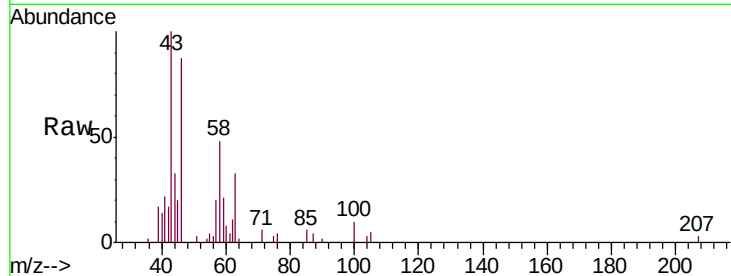




#48  
2-Hexanone  
Concen: 1.597 ug/L  
RT: 8.38 min Scan# 2267  
Delta R.T. 0.02 min  
Lab File: VU030597.D  
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BF2L9ME

Tgt Ion: 43 Resp: 9792  
Ion Ratio Lower Upper  
43 100  
58 50.7 42.5 63.7  
57 23.6 15.0 22.6#  
100 8.4 7.4 11.2



#59  
1,2,3-Trichloropropane  
Concen: 5.208 ug/L  
RT: 11.48 min Scan# 3232  
Delta R.T. 0.99 min  
Lab File: VU030597.D  
Acq: 31 Mar 2019 17:58

Tgt Ion: 75 Resp: 28234  
Ion Ratio Lower Upper  
75 100  
77 38.3 25.4 38.2#

