

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082518\  
 Data File : VU026363.D  
 Acq On : 25 Aug 2018 12:10  
 Operator : MD/SY  
 Sample : J4622-08DL 100X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETBKODL

Quant Time: Aug 27 01:31:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082218WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 25 04:25:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 317065   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 319731   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 150967   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 101003   | 52.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 104.46% |
| 7) Chloroethane-d5             | 1.68    | 69    | 81751    | 51.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.68% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 149522   | 39.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.68%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 145384   | 94.19    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.19%  |
| 24) Chloroform-d               | 4.65    | 84    | 200160   | 46.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 137713   | 49.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.18%  |
| 32) Benzene-d6                 | 5.35    | 84    | 412892   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.54%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 134849   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.20%  |
| 41) Toluene-d8                 | 7.57    | 98    | 379917   | 46.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.94%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 63988    | 45.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.18%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 109653   | 93.42    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.42%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 180547   | 44.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.84%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 158636   | 49.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.04%  |

## Target Compounds

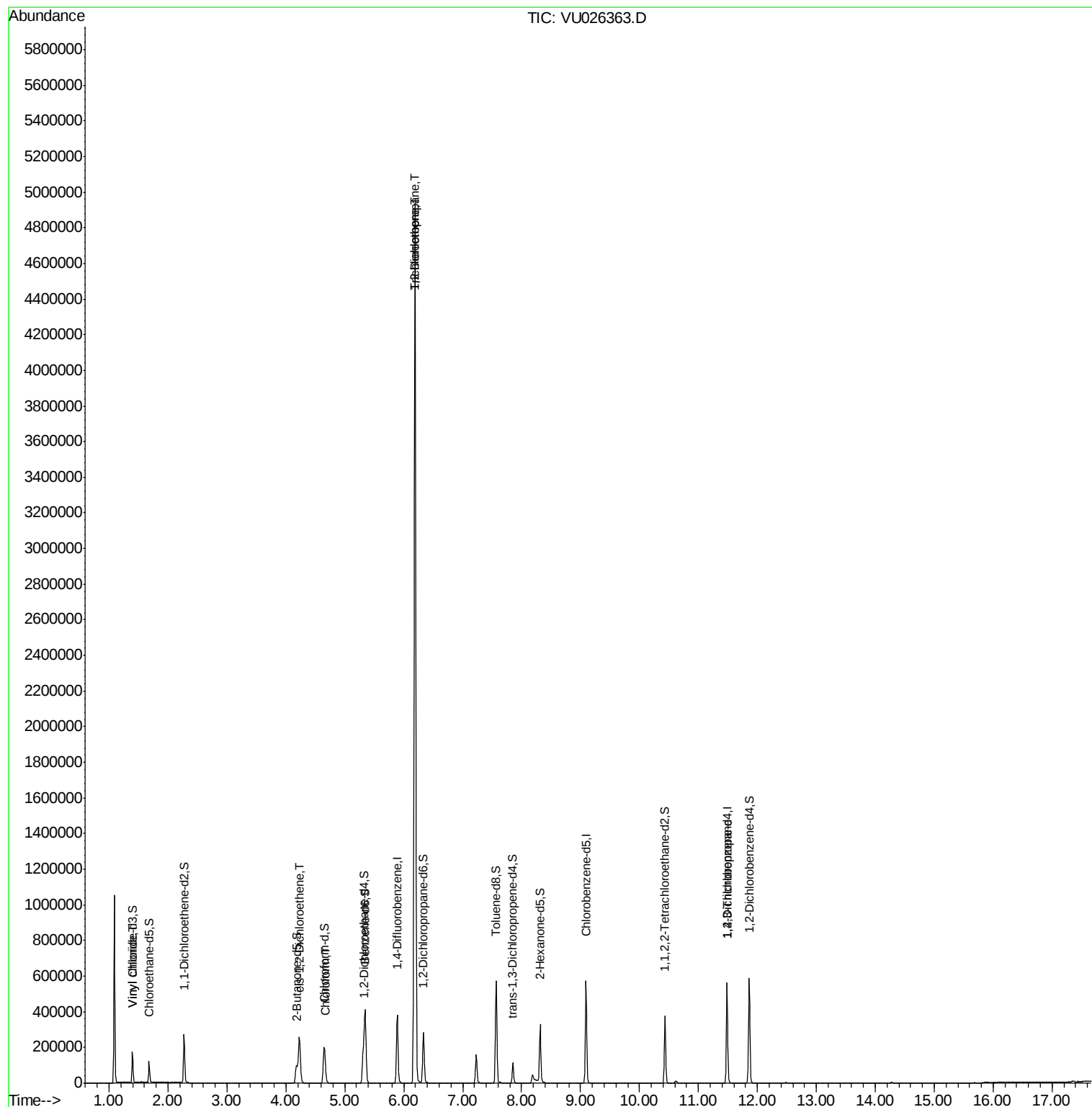
|                            |       |    |         |        |        | Ovalue |
|----------------------------|-------|----|---------|--------|--------|--------|
| 5) Vinyl chloride          | 1.40  | 62 | 9271    | 4.01   | ug/L   | 86     |
| 20) cis-1,2-Dichloroethene | 4.23  | 96 | 144701  | 63.73  | ug/L   | 96     |
| 25) Chloroform             | 4.68  | 83 | 13788   | 3.45   | ug/L   | 100    |
| 34) Trichloroethene        | 6.19  | 95 | 1675474 | 726.90 | ug/L   | 98     |
| 37) 1,2-Dichloropropane    | 6.19  | 63 | 5356    | 2.25   | ug/L   | 98     |
| 59) 1,2,3-Trichloropropane | 11.49 | 75 | 16133   | 5.43   | ug/L # | 79     |

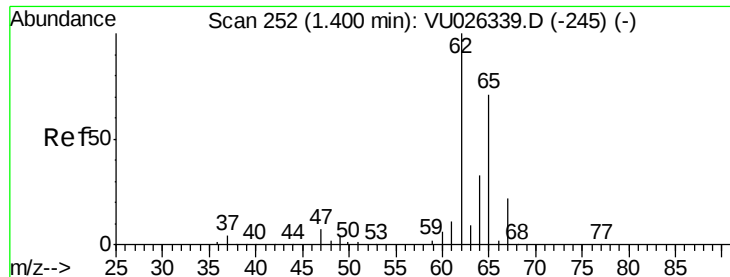
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
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Quant Title : VOC Analysis  
QLast Update : Sat Aug 25 04:25:01 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 4.01 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026363.D

Acq: 25 Aug 2018 12:10

Instrument :

MSVOA\_U

ClientSampleId :

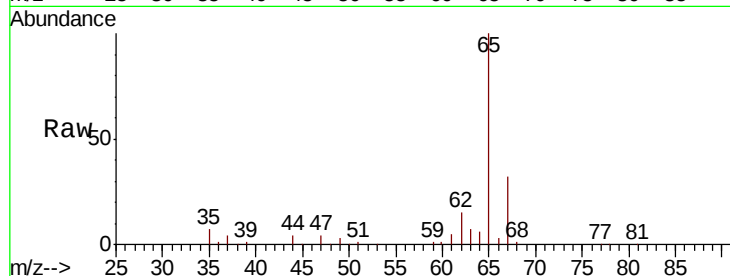
ETBK0DL

Tot Ion: 62 Resp: 9271

Ion Ratio Lower Upper

62 100

64 42.8 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

10000

8000

6000

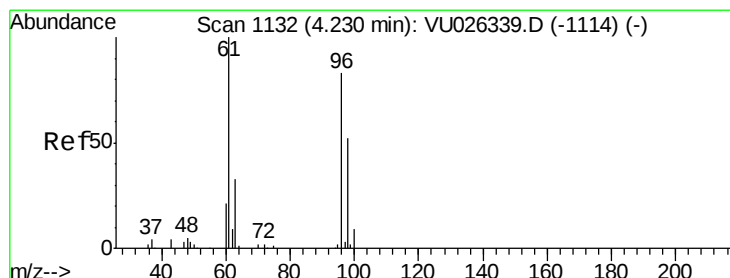
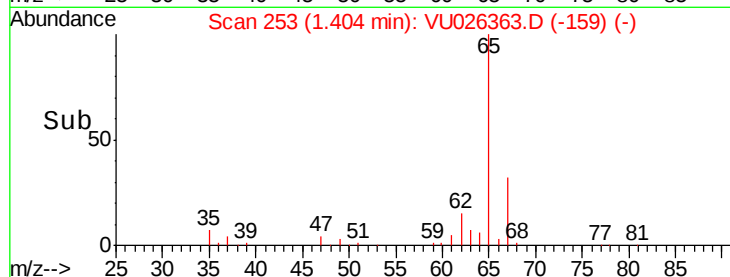
4000

2000

0

1.36 1.38 1.40 1.42 1.44

Time-->



#20

cis-1,2-Dichloroethene

Concen: 63.73 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU026363.D

Acq: 25 Aug 2018 12:10

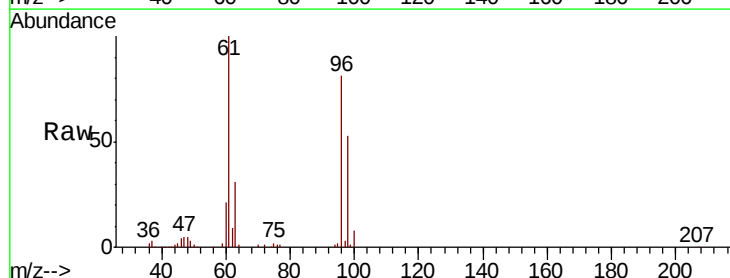
Tgt Ion: 96 Resp: 144701

Ion Ratio Lower Upper

96 100

61 123.9 90.3 167.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0

100000

80000

60000

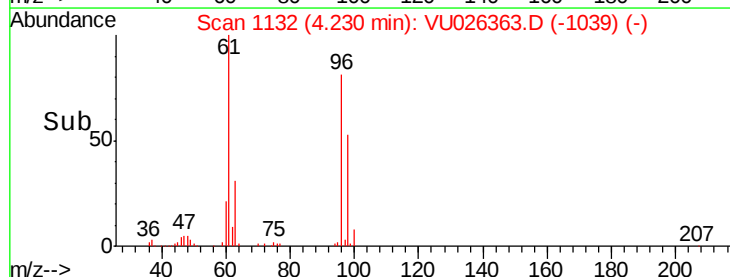
40000

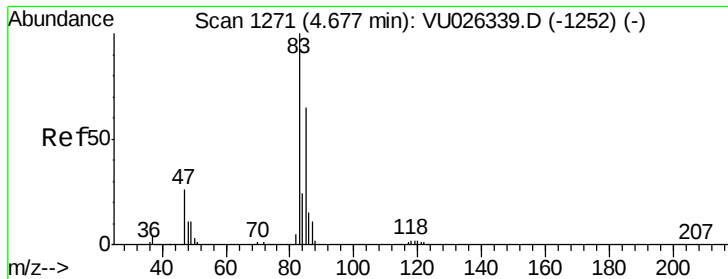
20000

0

4.10 4.20 4.30

Time-->





#25

Chloroform

Concen: 3.45 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU026363.D

Acq: 25 Aug 2018 12:10

Instrument :

MSVOA\_U

ClientSampleId :

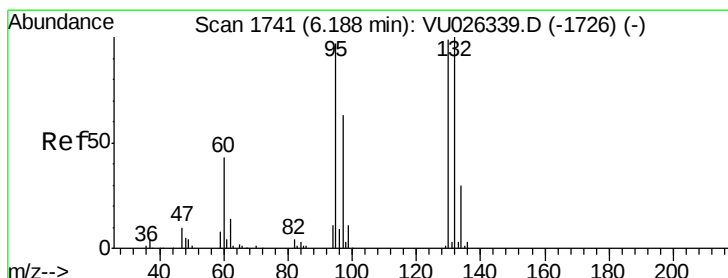
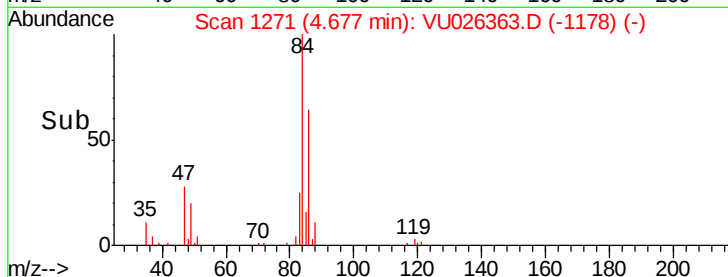
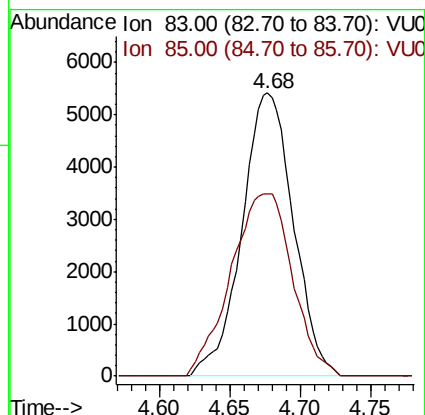
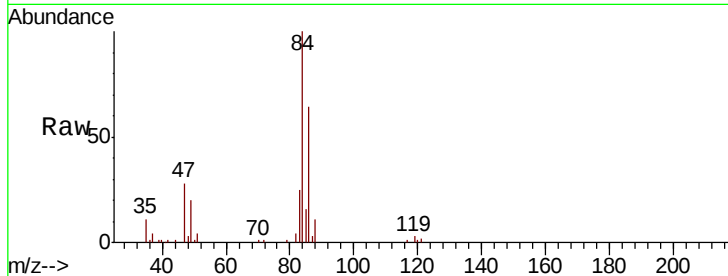
ETBKODL

Tot Ion: 83 Resp: 13788

Ion Ratio Lower Upper

83 100

85 64.3 45.0 83.6



#34

Trichloroethene

Concen: 726.90 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU026363.D

Acq: 25 Aug 2018 12:10

Tgt Ion: 95 Resp: 1675474

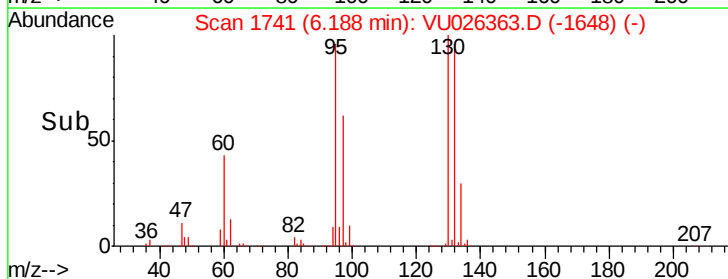
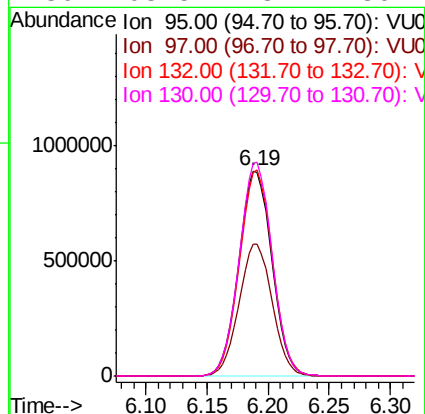
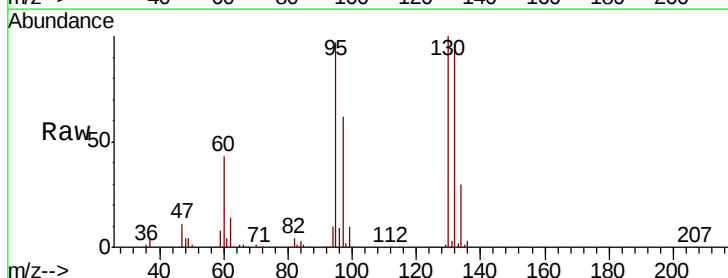
Ion Ratio Lower Upper

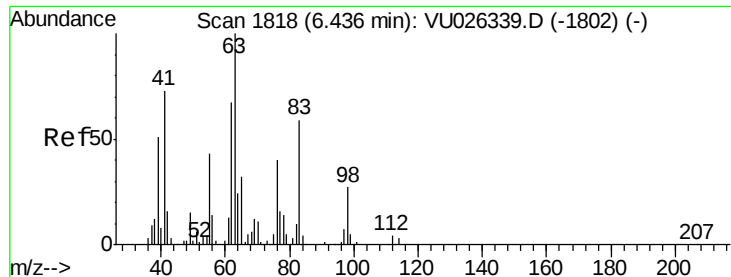
95 100

97 64.2 47.2 87.6

132 99.0 70.2 130.4

130 103.5 73.4 136.4

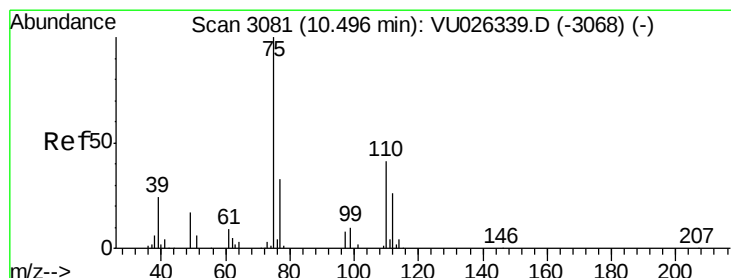
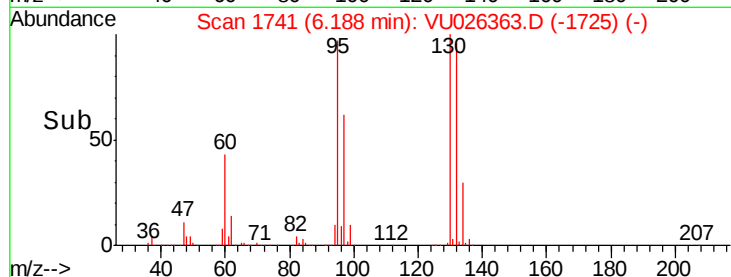
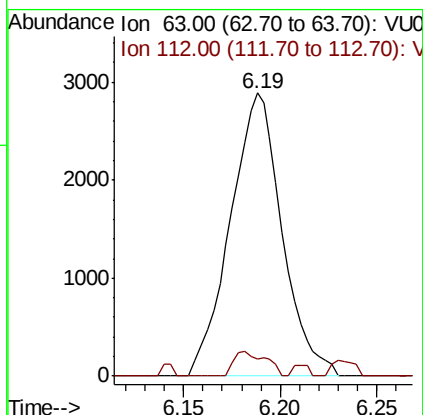
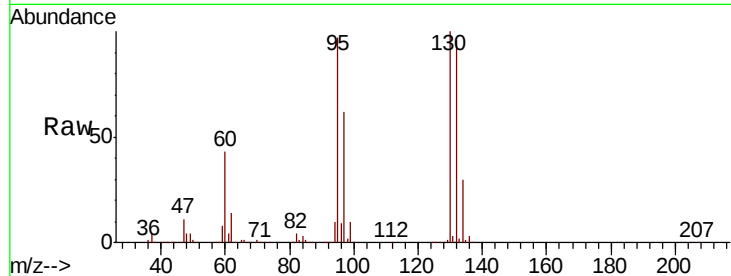




#37  
 1,2-Dichloropropane  
 Concen: 2.25 ug/L  
 RT: 6.19 min Scan# 1741  
 Delta R.T. -0.25 min  
 Lab File: VU026363.D  
 Acq: 25 Aug 2018 12:10

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETBKODL

Tot Ion: 63 Resp: 5356  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 3.4 5.2



#59  
 1,2,3-Trichloropropane  
 Concen: 5.43 ug/L  
 RT: 11.49 min Scan# 3389  
 Delta R.T. 0.99 min  
 Lab File: VU026363.D  
 Acq: 25 Aug 2018 12:10

Tgt Ion: 75 Resp: 16133  
 Ion Ratio Lower Upper  
 75 100  
 77 43.4 25.5 38.3#

