

Data File : VU026666.D  
Acq On : 10 Sep 2018 21:56  
Operator : MD/SY  
Sample : J4837-14  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08J7

Quant Time: Sep 11 07:11:07 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 11 07:07:03 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 179616   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 166699   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 70794    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 62375    | 46.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.20%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 53749    | 49.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.66%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 85194    | 35.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.14%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 89331    | 107.25   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.25% |
| 24) Chloroform-d               | 4.65    | 84    | 107999   | 48.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.06%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 73058    | 50.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.32% |
| 32) Benzene-d6                 | 5.34    | 84    | 219265   | 50.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.64% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 74922    | 51.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.50% |
| 41) Toluene-d8                 | 7.57    | 98    | 195438   | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.56%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 32037    | 47.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.20%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 64060    | 108.44   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 100550   | 50.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.44% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 74451    | 52.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.50% |

#### Target Compounds

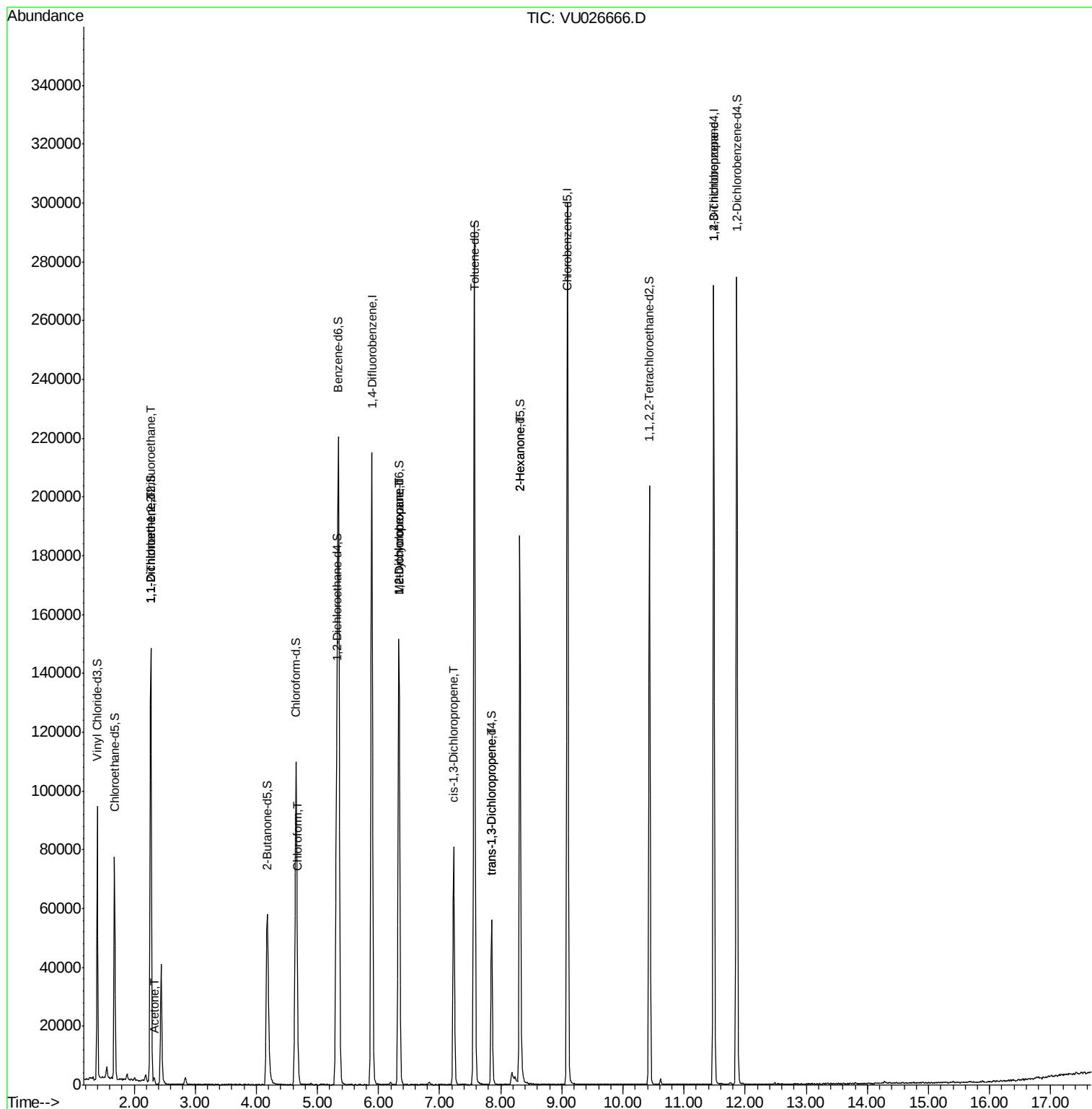
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 738   | 0.669 ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 586   | 0.553 ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 967   | 1.019 ug/L   | 94     |
| 25) Chloroform                 | 4.68  | 83  | 4548  | 2.079 ug/L   | 88     |
| 35) Methylcyclohexane          | 6.33  | 83  | 16613 | 8.945 ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 7976  | 6.116 ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 1966  | 1.019 ug/L # | 77     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1242  | 0.692 ug/L   | 91     |
| 48) 2-Hexanone                 | 8.31  | 43  | 7235  | 5.151 ug/L # | 67     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8190  | 5.308 ug/L   | 91     |

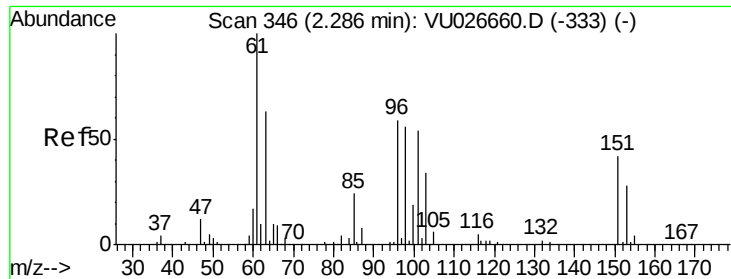
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU026666.D  
Acq On : 10 Sep 2018 21:56  
Operator : MD/SY  
Sample : J4837-14  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08J7

Quant Time: Sep 11 07:11:07 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 11 07:07:03 2018  
Response via : Initial Calibration





#10

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

Concen: 0.669 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026666.D

Acq: 10 Sep 2018 21:56

Instrument :

MSVOA\_U

ClientSampleId :

C08J7

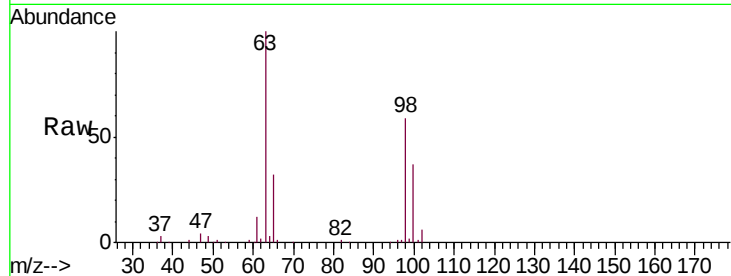
Tgt Ion: 101 Resp: 738

Ion Ratio Lower Upper

101 100

85 0.0 34.1 51.1#

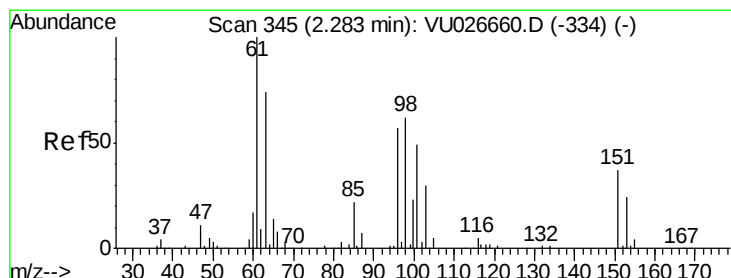
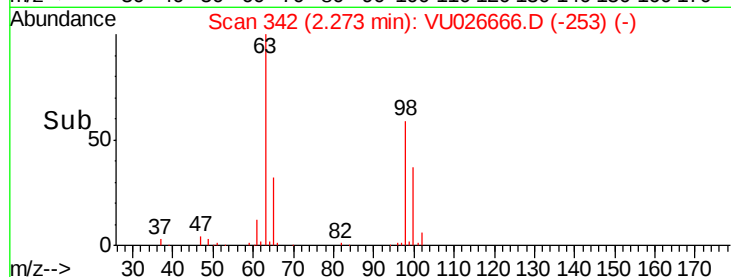
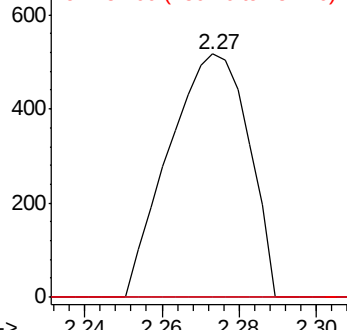
151 0.0 62.6 94.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.553 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026666.D

Acq: 10 Sep 2018 21:56

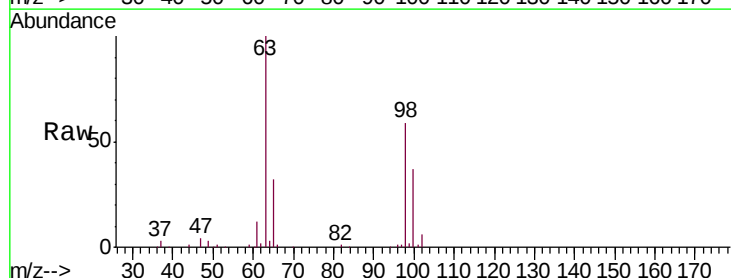
Tgt Ion: 96 Resp: 586

Ion Ratio Lower Upper

96 100

61 1680.5 121.0 224.8#

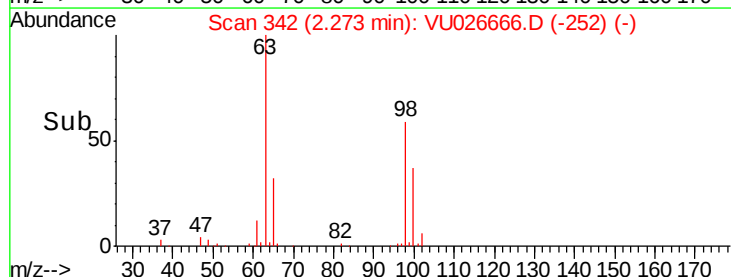
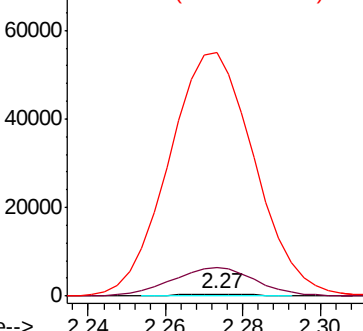
63 14281.6 89.9 166.9#

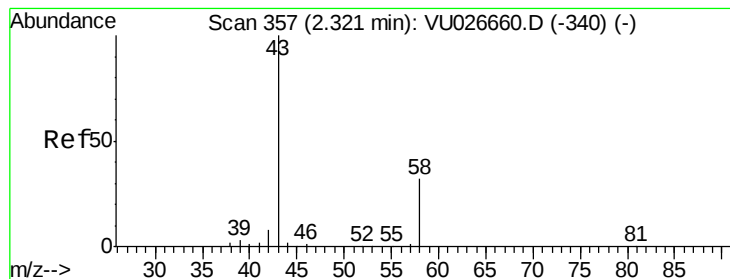


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.019 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026666.D

Acq: 10 Sep 2018 21:56

Instrument :

MSVOA\_U

ClientSampleId :

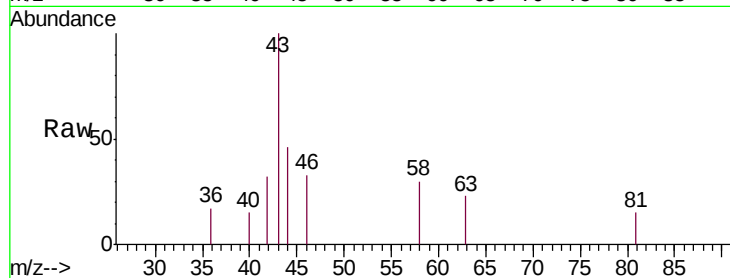
C08J7

Tgt Ion: 43 Resp: 967

Ion Ratio Lower Upper

43 100

58 28.1 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

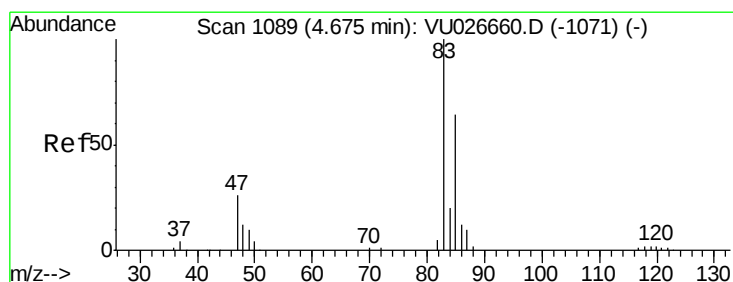
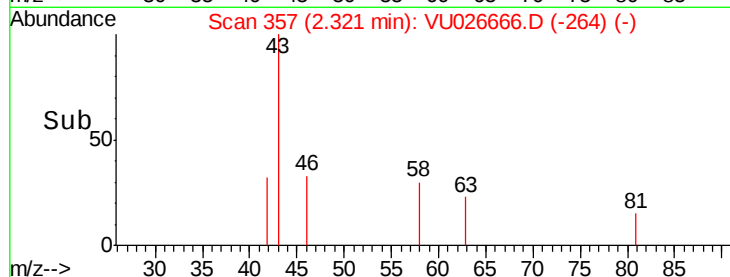
600

400

200

0

Time--> 2.28 2.30 2.32 2.34 2.36



#25

Chloroform

Concen: 2.079 ug/L

RT: 4.68 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VU026666.D

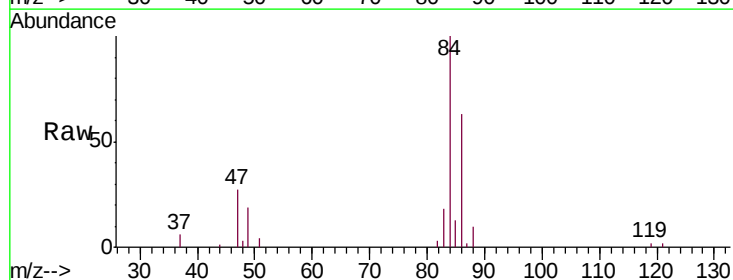
Acq: 10 Sep 2018 21:56

Tgt Ion: 83 Resp: 4548

Ion Ratio Lower Upper

83 100

85 74.5 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.68

2000

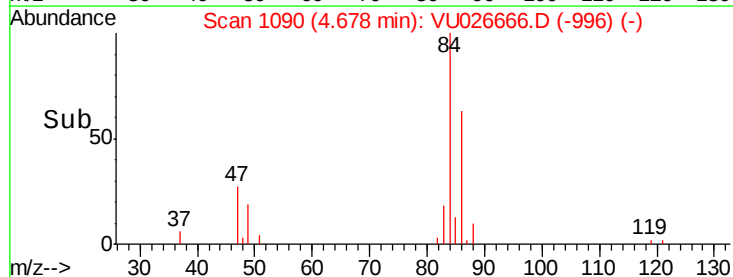
1500

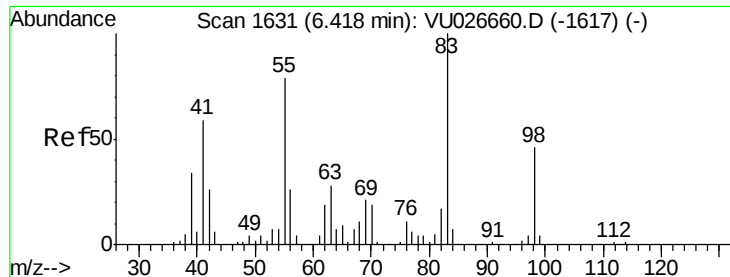
1000

500

0

Time--> 4.60 4.65 4.70

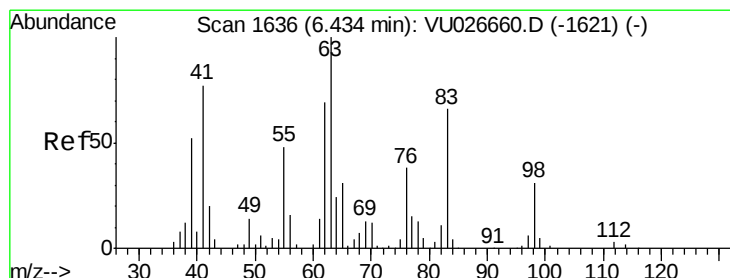
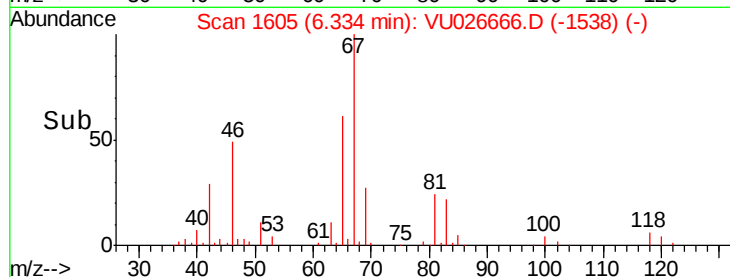
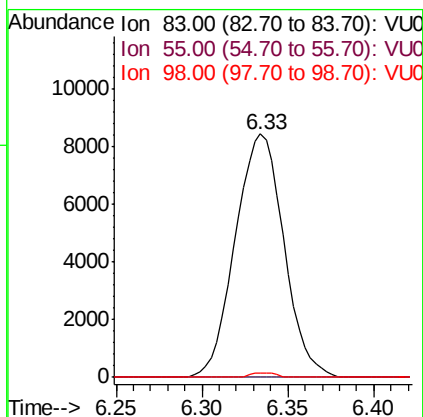
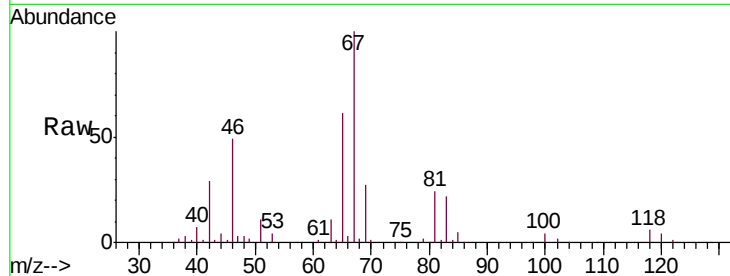




#35  
Methylcyclohexane  
Concen: 8.945 ug/L  
RT: 6.33 min Scan# 1605  
Delta R.T. -0.08 min  
Lab File: VU026666.D  
Acq: 10 Sep 2018 21:56

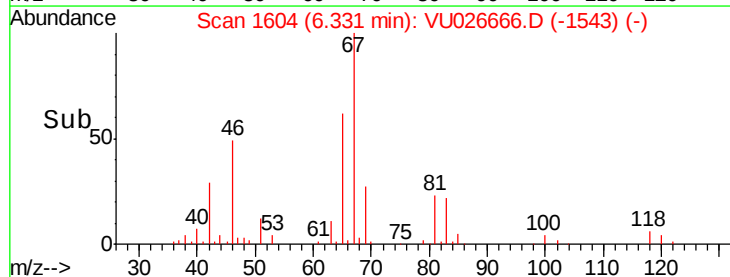
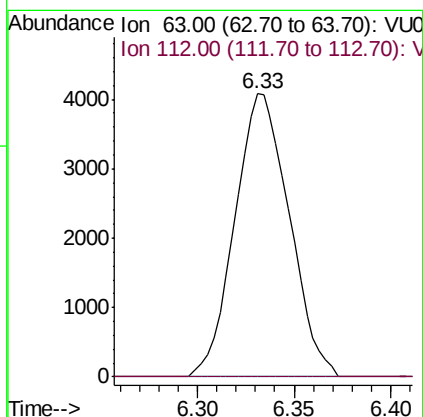
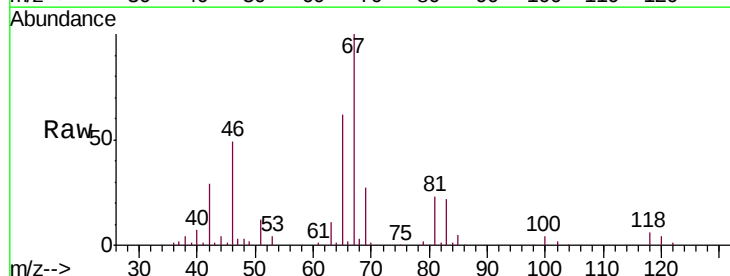
Instrument :  
MSVOA\_U  
ClientSampled :  
C08J7

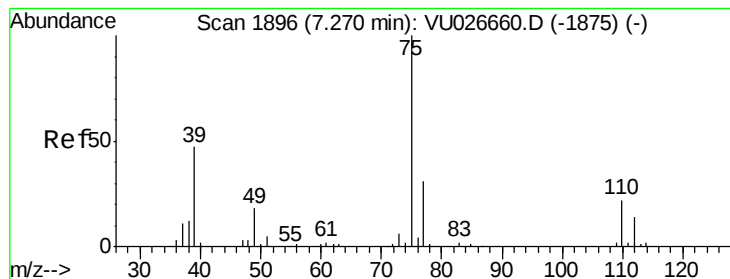
Tgt Ion: 83 Resp: 16613  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.9 94.3#  
98 0.9 37.0 55.4#



#37  
1,2-Dichloropropane  
Concen: 6.116 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.10 min  
Lab File: VU026666.D  
Acq: 10 Sep 2018 21:56

Tgt Ion: 63 Resp: 7976  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#



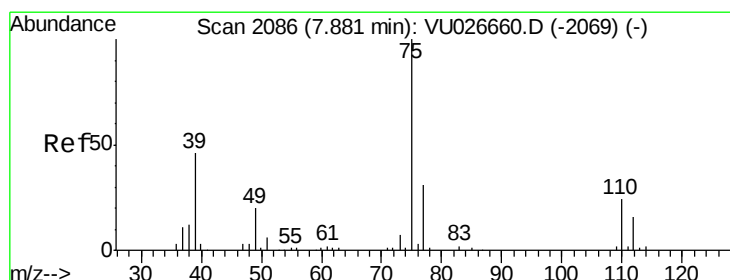
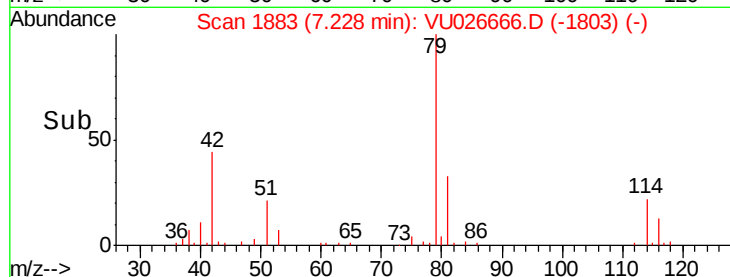
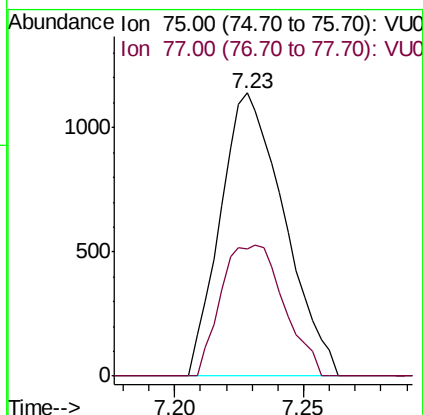
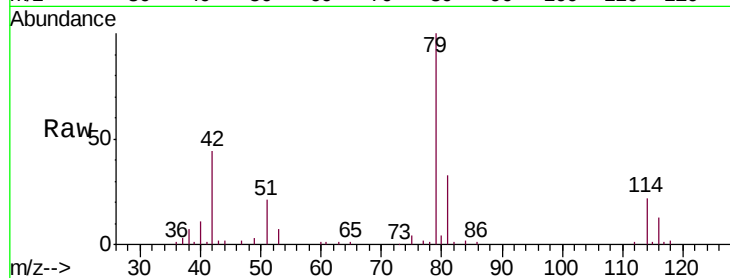


#39

cis-1,3-Dichloropropene  
Concen: 1.019 ug/L  
RT: 7.23 min Scan# 1883  
Delta R.T. -0.04 min  
Lab File: VU026666.D  
Acq: 10 Sep 2018 21:56

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08J7

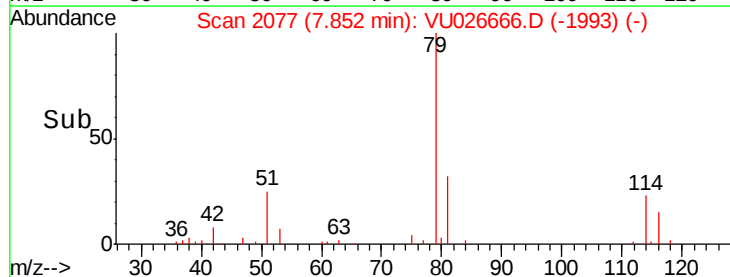
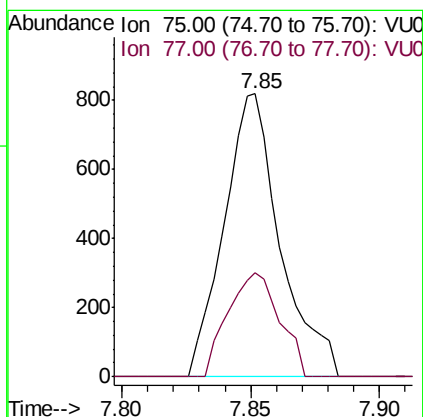
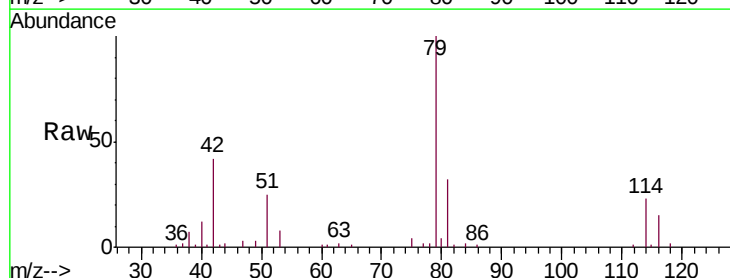
Tgt Ion: 75 Resp: 1966  
Ion Ratio Lower Upper  
75 100  
77 44.9 22.3 41.3#

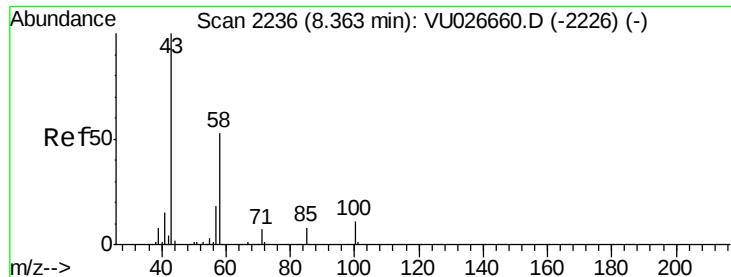


#44

trans-1,3-Dichloropropene  
Concen: 0.692 ug/L  
RT: 7.85 min Scan# 2077  
Delta R.T. -0.03 min  
Lab File: VU026666.D  
Acq: 10 Sep 2018 21:56

Tgt Ion: 75 Resp: 1242  
Ion Ratio Lower Upper  
75 100  
77 36.8 22.4 41.6

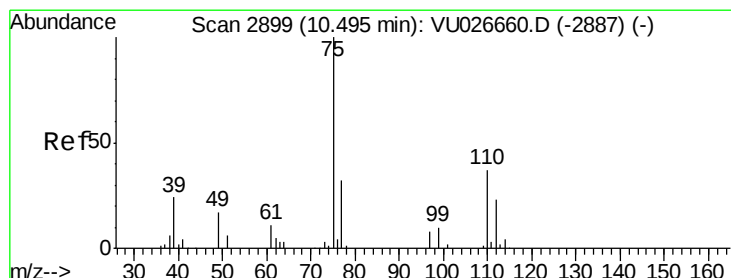
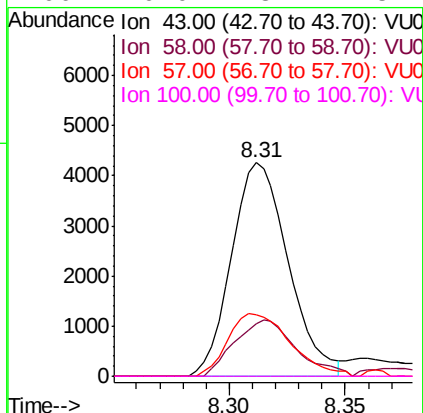
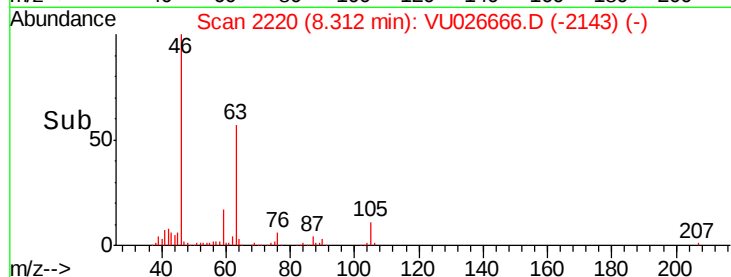
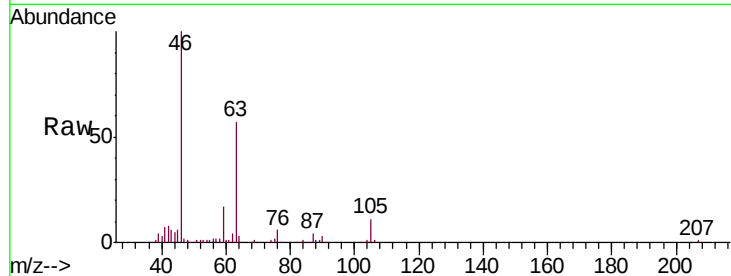




#48  
 2-Hexanone  
 Concen: 5.151 ug/L  
 RT: 8.31 min Scan# 2220  
 Delta R.T. -0.05 min  
 Lab File: VU026666.D  
 Acq: 10 Sep 2018 21:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08J7

Tgt Ion: 43 Resp: 7235  
 Ion Ratio Lower Upper  
 43 100  
 58 28.6 42.2 63.4#  
 57 32.1 14.4 21.6#  
 100 0.0 8.7 13.1#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.308 ug/L  
 RT: 11.48 min Scan# 3207  
 Delta R.T. 0.99 min  
 Lab File: VU026666.D  
 Acq: 10 Sep 2018 21:56

Tgt Ion: 75 Resp: 8190  
 Ion Ratio Lower Upper  
 75 100  
 77 37.0 25.8 38.6

