

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU091318\  
 Data File : VU026700.D  
 Acq On : 12 Sep 2018 14:35  
 Operator : MD/SY  
 Sample : J4860-01 100X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A41S8DL

Quant Time: Sep 13 03:40:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 13 03:38:50 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 223458   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 207523   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 94024    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 68666    | 41.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.46%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 61114    | 45.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.08%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 100964   | 33.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.76%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 119338   | 115.16   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 115.16% |
| 24) Chloroform-d               | 4.65    | 84    | 132896   | 48.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 89392    | 49.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.66%  |
| 32) Benzene-d6                 | 5.34    | 84    | 272895   | 50.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.62% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 93543    | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.80% |
| 41) Toluene-d8                 | 7.57    | 98    | 249903   | 49.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.18%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 41176    | 49.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.28%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 87215    | 118.60   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 118.60% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 129827   | 52.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 105.22% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 99366    | 53.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.02% |

## Target Compounds

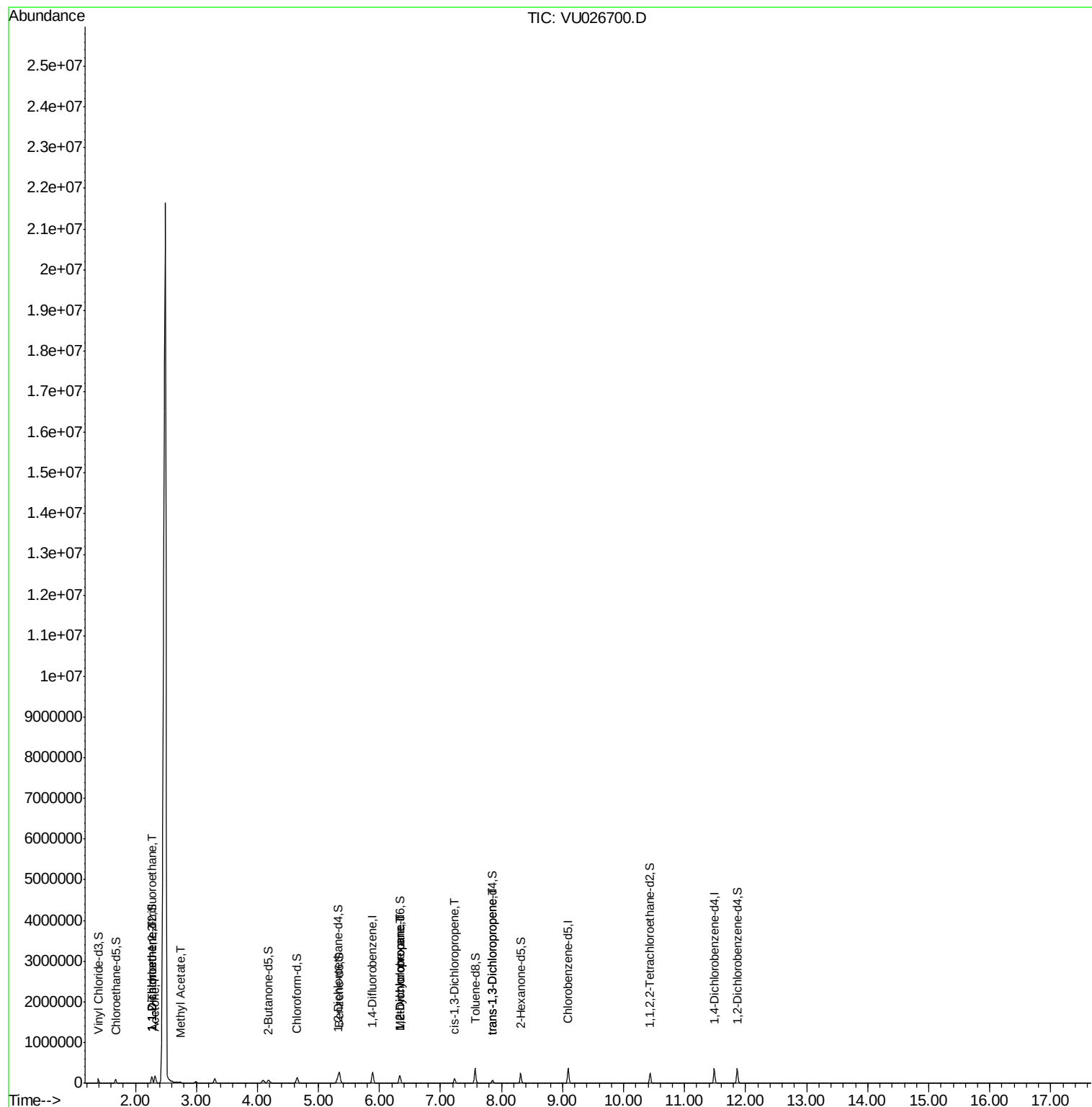
|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 819    | 0.597 ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 754    | 0.572 ug/L # | 1      |
| 13) Acetone                    | 2.32 | 43  | 199828 | 169.309 ug/L | 98     |
| 15) Methyl Acetate             | 2.74 | 43  | 13480  | 8.006 ug/L # | 52     |
| 35) Methylcyclohexane          | 6.33 | 83  | 21065  | 9.111 ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.33 | 63  | 9424   | 5.805 ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.23 | 75  | 2499   | 1.040 ug/L # | 83     |
| 44) trans-1,3-Dichloropropene  | 7.85 | 75  | 1746   | 0.781 ug/L   | 99     |

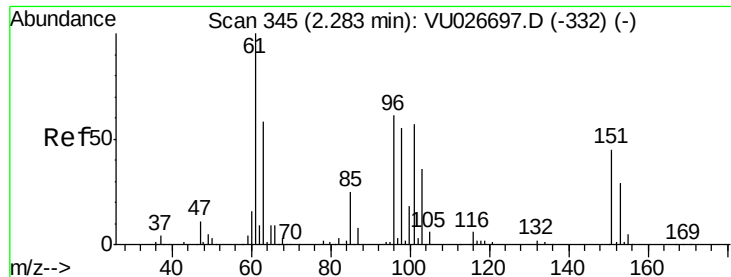
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Sep 13 03:38:50 2018  
Response via : Initial Calibration





#10

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

Concen: 0.597 ug/L

RT: 2.27 min Scan# 340

Delta R.T. -0.02 min

Lab File: VU026700.D

Acq: 12 Sep 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

A41S8DL

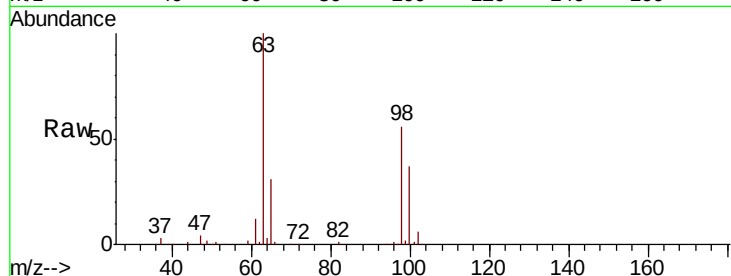
Tgt Ion: 101 Resp: 819

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

2.27

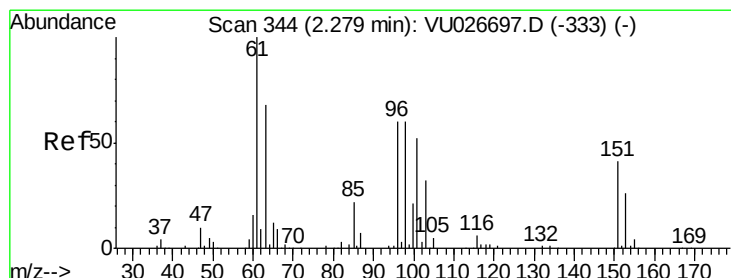
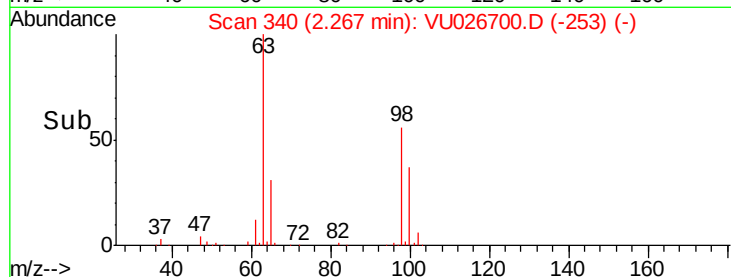
400

200

0

2.24 2.26 2.28 2.30

Time-->



#12

1,1-Dichloroethene

Concen: 0.572 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU026700.D

Acq: 12 Sep 2018 14:35

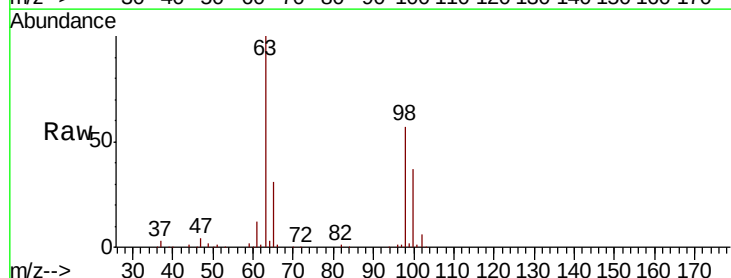
Tgt Ion: 96 Resp: 754

Ion Ratio Lower Upper

96 100

61 1288.3 121.0 224.8#

63 11200.0 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

80000

60000

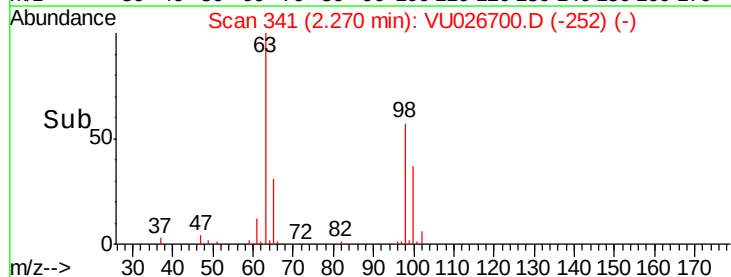
40000

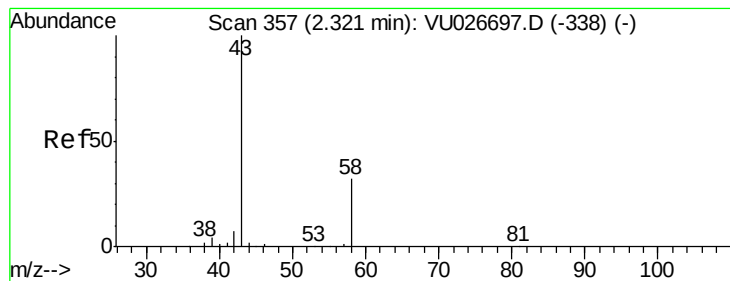
20000

0

2.24 2.26 2.28 2.30

Time-->





#13

Acetone

Concen: 169.309 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU026700.D

Acq: 12 Sep 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

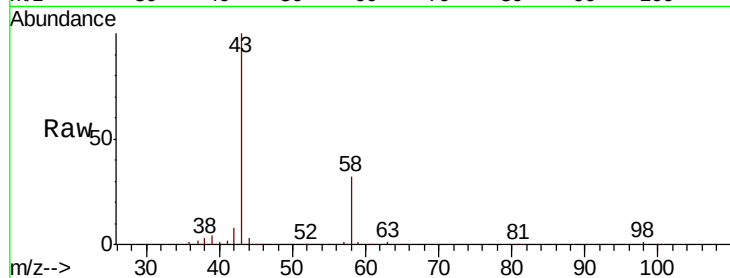
A41S8DL

Tgt Ion: 43 Resp: 199828

Ion Ratio Lower Upper

43 100

58 32.4 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

800000

600000

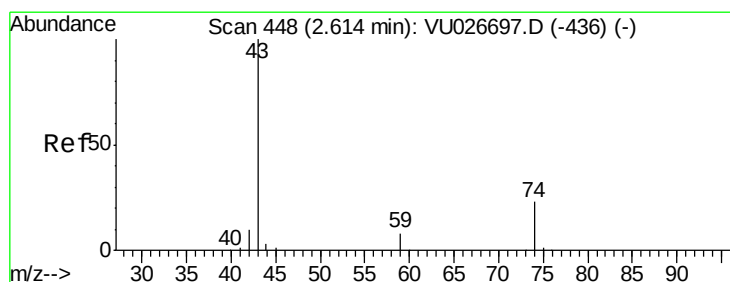
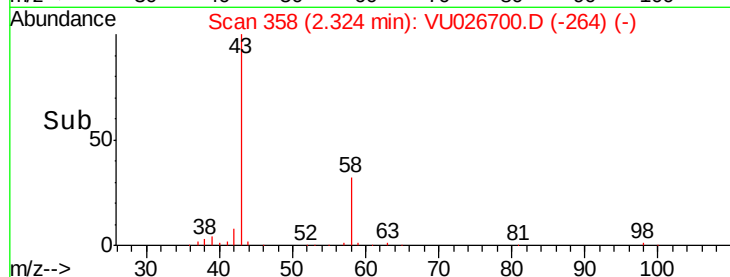
400000

200000

0

2.25 2.30 2.35 2.40

Time-->



#15

Methyl Acetate

Concen: 8.006 ug/L

RT: 2.74 min Scan# 487

Delta R.T. 0.12 min

Lab File: VU026700.D

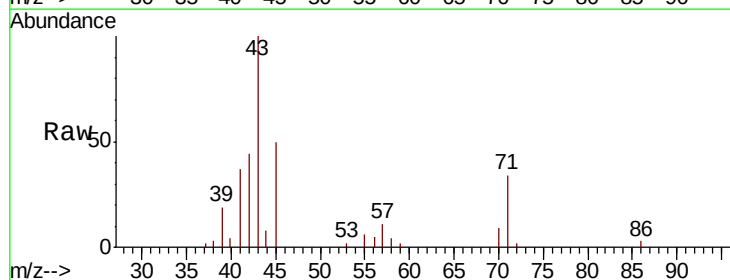
Acq: 12 Sep 2018 14:35

Tgt Ion: 43 Resp: 13480

Ion Ratio Lower Upper

43 100

74 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

8000

6000

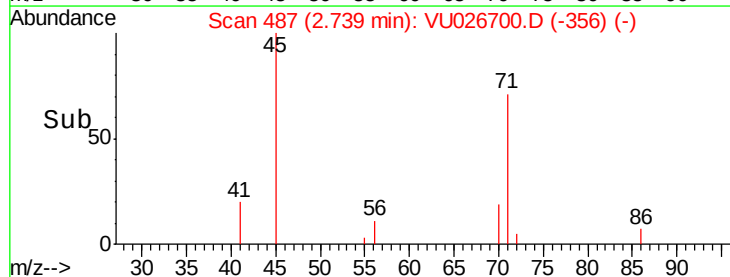
4000

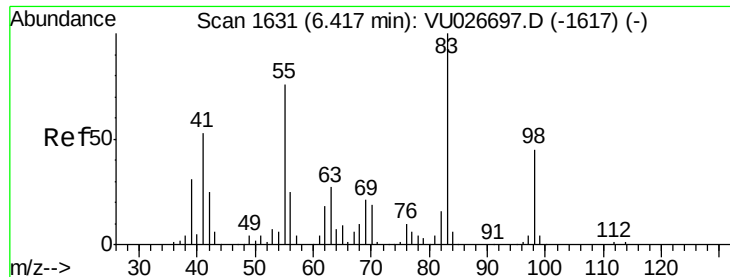
2000

0

2.70 2.75 2.80

Time-->

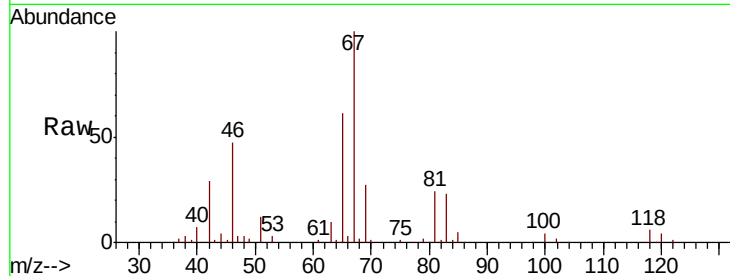




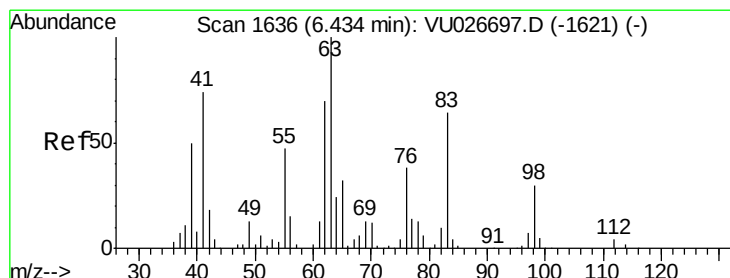
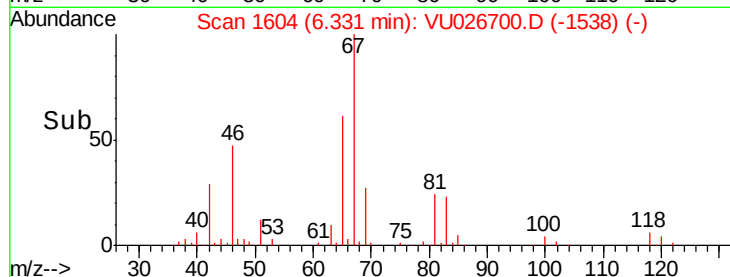
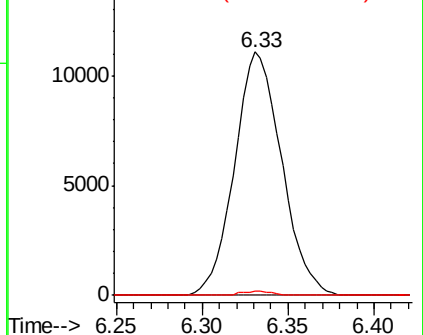
#35  
Methylcyclohexane  
Concen: 9.111 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.09 min  
Lab File: VU026700.D  
Acq: 12 Sep 2018 14:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
A41S8DL

Tgt Ion: 83 Resp: 21065  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.9 94.3#  
98 1.1 37.0 55.4#

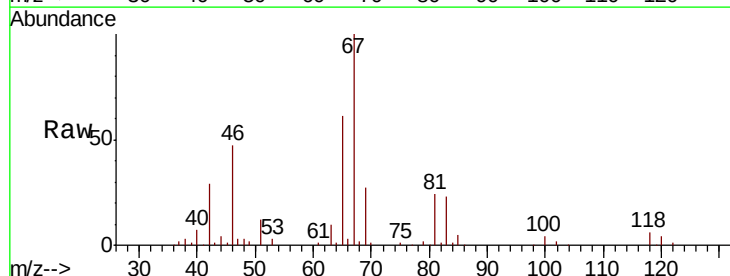


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

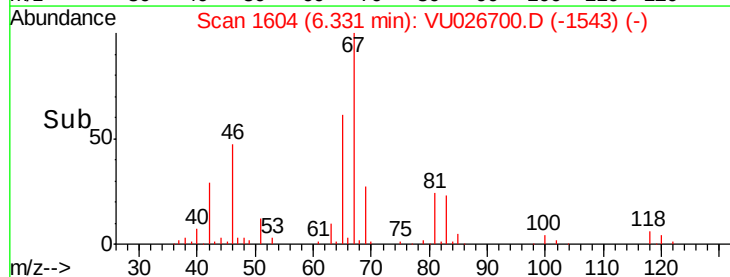
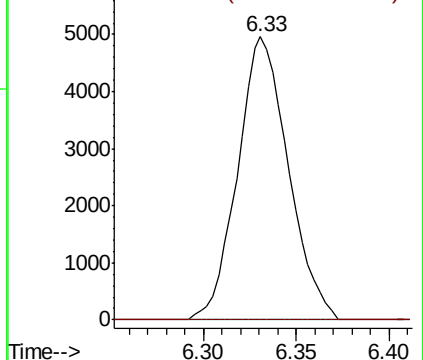


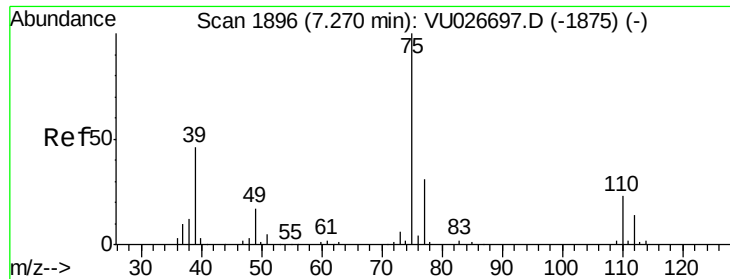
#37  
1,2-Dichloropropane  
Concen: 5.805 ug/L  
RT: 6.33 min Scan# 1604  
Delta R.T. -0.10 min  
Lab File: VU026700.D  
Acq: 12 Sep 2018 14:35

Tgt Ion: 63 Resp: 9424  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 112.00 (111.70 to 112.70): V

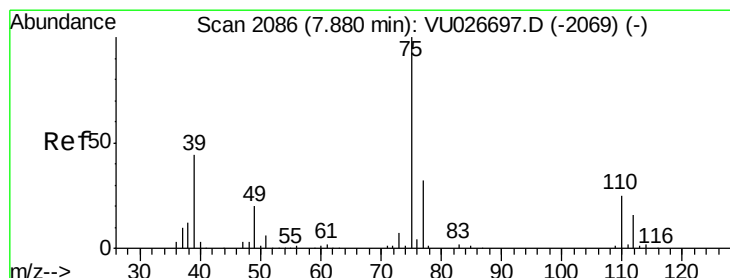
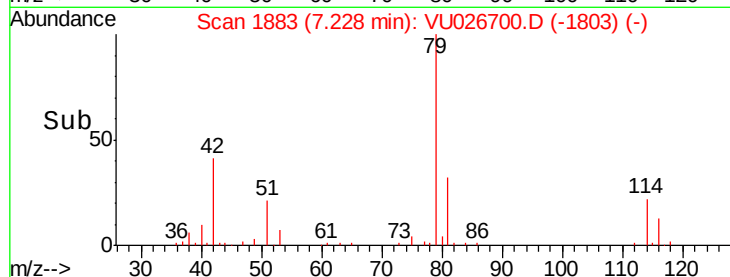
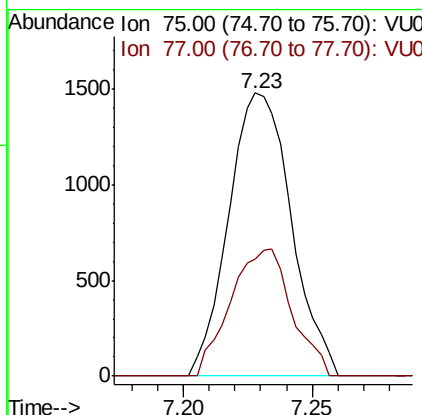
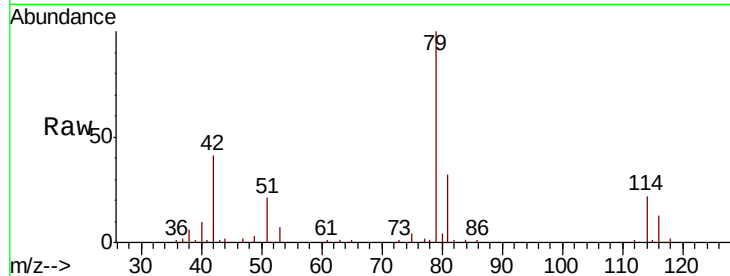




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.040 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU026700.D  
 Acq: 12 Sep 2018 14:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A41S8DL

Tgt Ion: 75 Resp: 2499  
 Ion Ratio Lower Upper  
 75 100  
 77 41.4 22.3 41.3#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.781 ug/L  
 RT: 7.85 min Scan# 2076  
 Delta R.T. -0.03 min  
 Lab File: VU026700.D  
 Acq: 12 Sep 2018 14:35

Tgt Ion: 75 Resp: 1746  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 22.4 41.6

