

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\  
 Data File : VU030982.D  
 Acq On : 10 Apr 2019 02:20  
 Operator : JC/SP  
 Sample : K2248-18RE  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YD3RE

Quant Time: Apr 10 04:36:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Apr 10 04:30:45 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 216597   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 224381   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 88310    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 68787    | 4.16     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.20%   |
| 7) Chloroethane-d5             | 1.68   | 69    | 64900    | 4.86     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.20%   |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 107464   | 3.17     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 63.40%   |
| 20) 2-Butanone-d5              | 4.18   | 46    | 277288   | 65.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 130.02%# |
| 24) Chloroform-d               | 4.64   | 84    | 132935   | 4.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%   |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 88481    | 5.94     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 118.80%  |
| 32) Benzene-d6                 | 5.33   | 84    | 254469   | 4.26     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.20%   |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 93846    | 4.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60%   |
| 41) Toluene-d8                 | 7.56   | 98    | 193782   | 3.67     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 73.40%   |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 28136    | 3.82     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.40%   |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 160316   | 50.09    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.18%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 80731    | 5.69     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 113.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 76466    | 5.18     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.60%  |

## Target Compounds

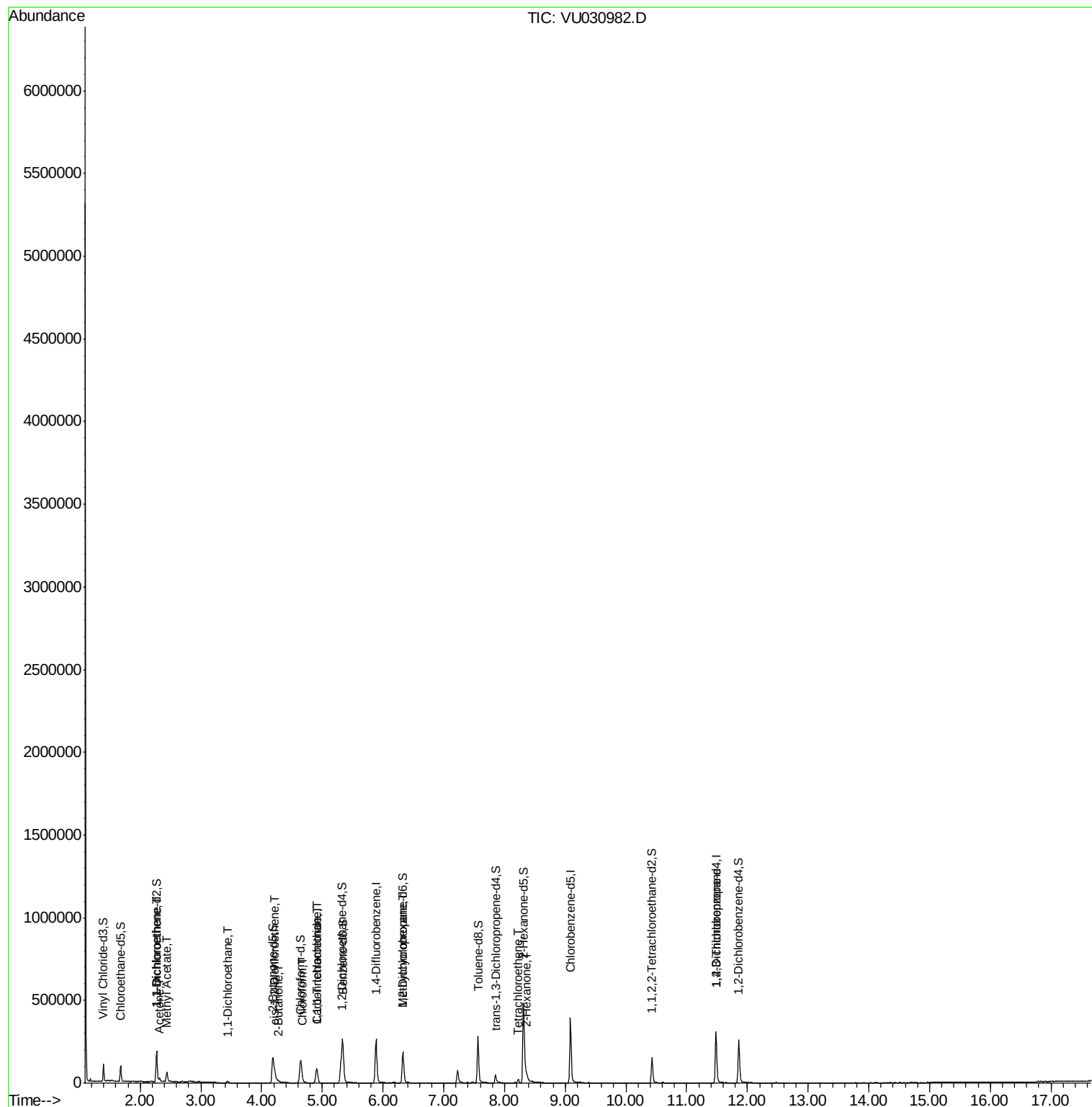
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene     | 2.28  | 96   | 4311     | 0.273 | ug/L # | 1      |
| 13) Acetone                | 2.32  | 43   | 23000    | 6.975 | ug/L   | 96     |
| 15) Methyl Acetate         | 2.44  | 43   | 14632    | 1.718 | ug/L # | 55     |
| 19) 1,1-Dichloroethane     | 3.44  | 63   | 9187     | 0.260 | ug/L # | 96     |
| 21) 2-Butanone             | 4.28  | 43   | 4673     | 0.894 | ug/L   | 96     |
| 22) cis-1,2-Dichloroethene | 4.22  | 96   | 6085     | 0.342 | ug/L   | 86     |
| 25) Chloroform             | 4.67  | 83   | 12518    | 0.389 | ug/L   | 91     |
| 29) 1,1,1-Trichloroethane  | 4.91  | 97   | 69245    | 2.422 | ug/L   | 97     |
| 31) Carbon tetrachloride   | 4.91  | 117  | 8918     | 0.372 | ug/L   | 97     |
| 35) Methylcyclohexane      | 6.32  | 83   | 20753    | 0.684 | ug/L # | 14     |
| 47) Tetrachloroethene      | 8.22  | 164  | 4623     | 0.347 | ug/L   | 92     |
| 48) 2-Hexanone             | 8.37  | 43   | 17087    | 1.892 | ug/L # | 90     |
| 59) 1,2,3-Trichloropropane | 11.48 | 75   | 10568    | 0.905 | ug/L # | 82     |

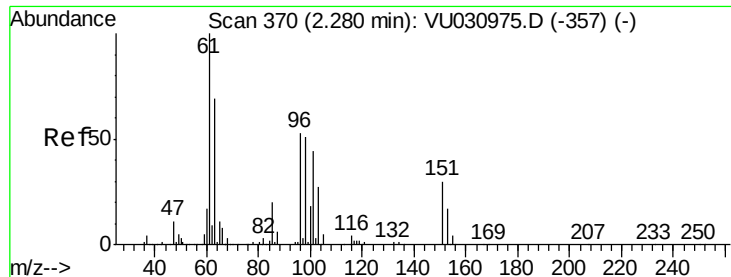
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041019\  
Data File : VU030982.D  
Acq On : 10 Apr 2019 02:20  
Operator : JC/SP  
Sample : K2248-18RE  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YD3RE

Quant Time: Apr 10 04:36:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Apr 10 04:30:45 2019  
Response via : Initial Calibration

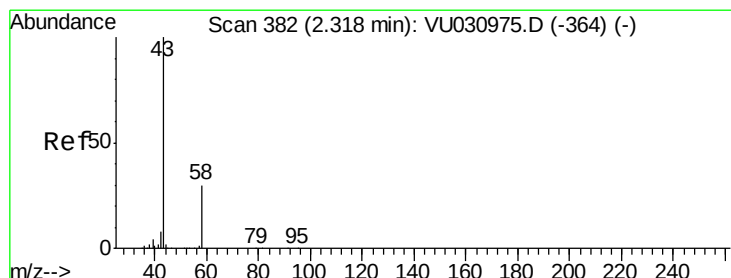
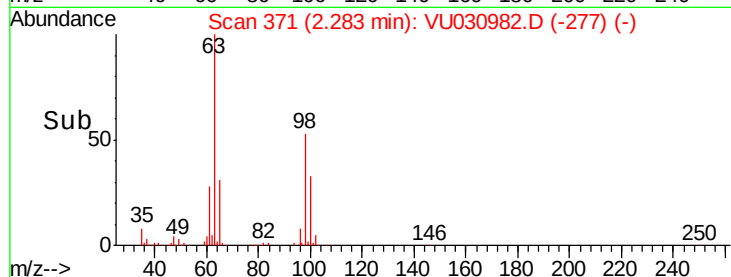
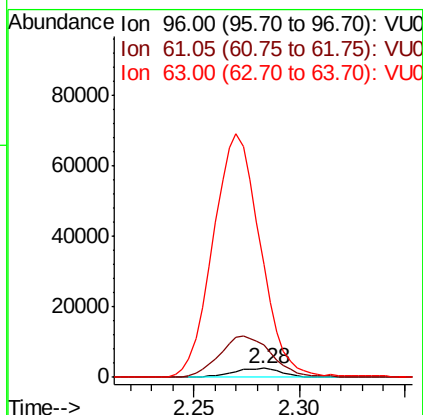
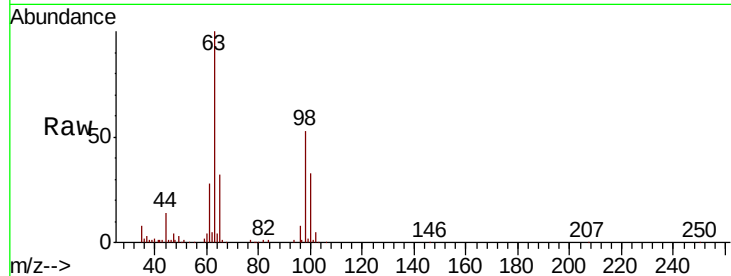




#12  
 1,1-Dichloroethene  
 Concen: 0.273 ug/L  
 RT: 2.28 min Scan# 371  
 Delta R.T. 0.00 min  
 Lab File: VU030982.D  
 Acq: 10 Apr 2019 02:20

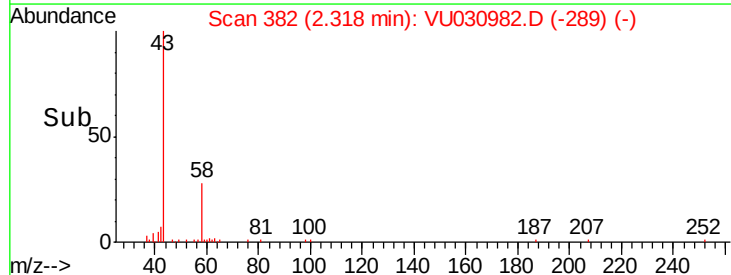
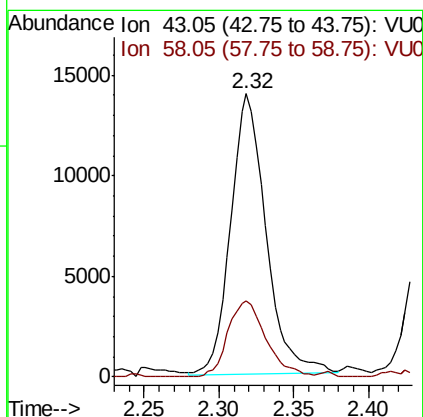
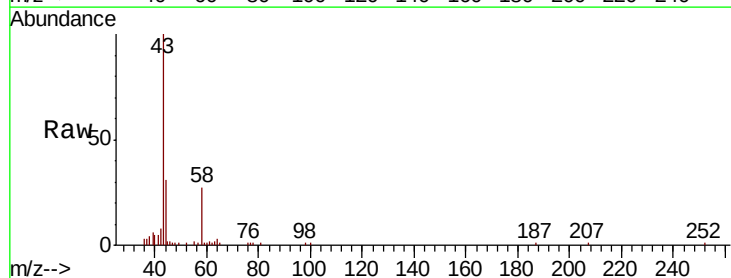
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YD3RE

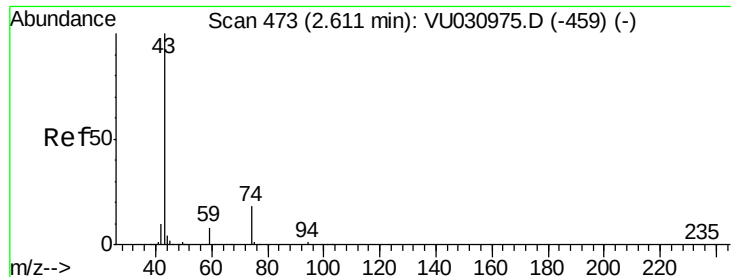
Tot Ion: 96 Resp: 4311  
 Ion Ratio Lower Upper  
 96 100  
 61 358.1 136.9 254.3#  
 63 1267.8 107.7 200.1#



#13  
 Acetone  
 Concen: 6.975 ug/L  
 RT: 2.32 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: VU030982.D  
 Acq: 10 Apr 2019 02:20

Tgt Ion: 43 Resp: 23000  
 Ion Ratio Lower Upper  
 43 100  
 58 29.2 0.0 62.8

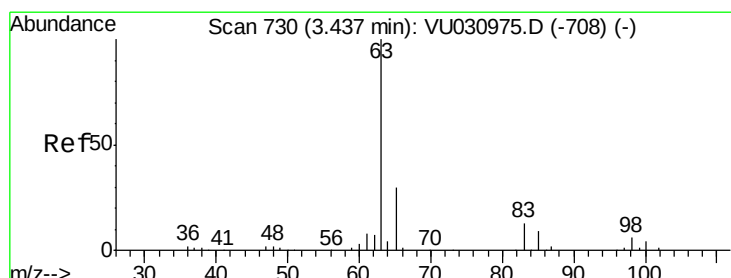
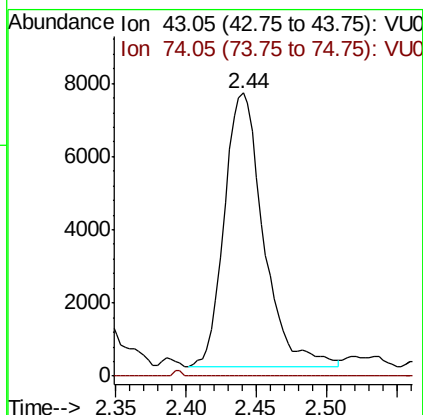
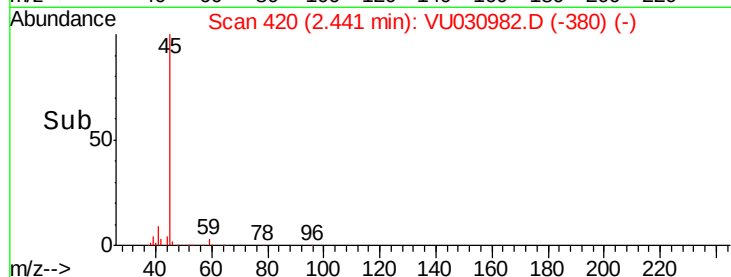
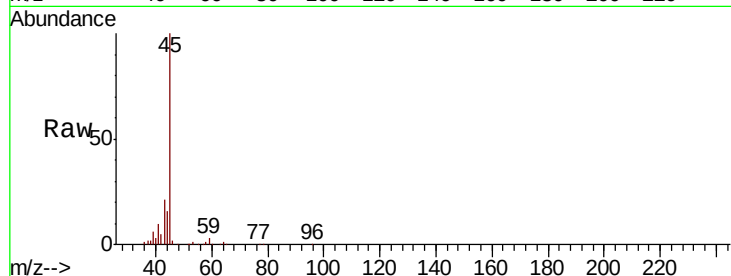




#15  
Methvl Acetate  
Concen: 1.718 ug/L  
RT: 2.44 min Scan# 420  
Delta R.T. -0.17 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

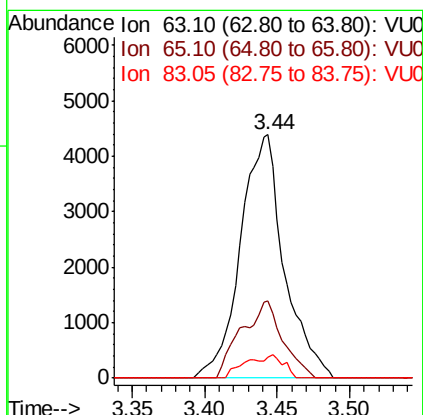
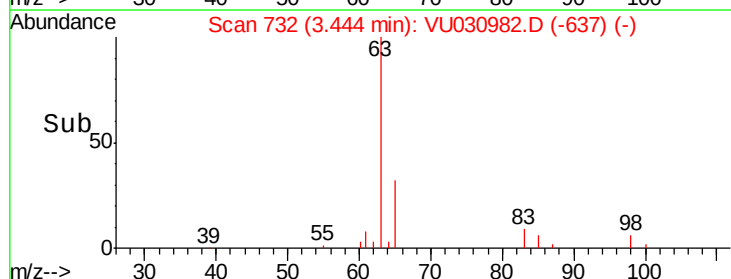
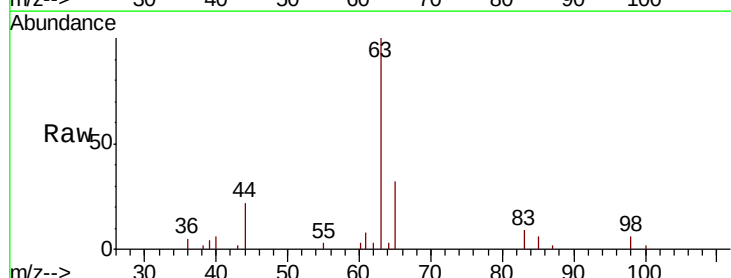
Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YD3RE

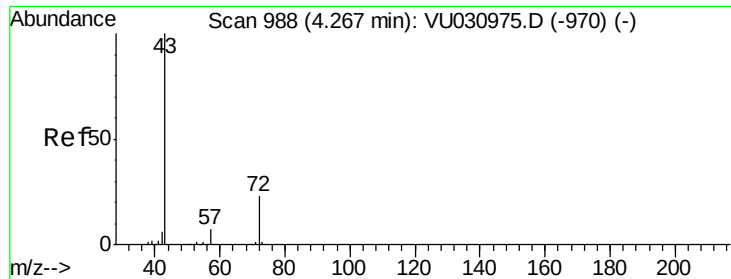
Tot Ion: 43 Resp: 14632  
Ion Ratio Lower Upper  
43 100  
74 0.4 17.1 25.7#



#19  
1,1-Dichloroethane  
Concen: 0.260 ug/L  
RT: 3.44 min Scan# 732  
Delta R.T. 0.01 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

Tgt Ion: 63 Resp: 9187  
Ion Ratio Lower Upper  
63 100  
65 31.5 21.6 40.0  
83 8.5 9.1 16.9#





#21

2-Butanone

Concen: 0.894 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VU030982.D

Acq: 10 Apr 2019 02:20

Instrument :

MSVOA\_U

ClientSampleId :

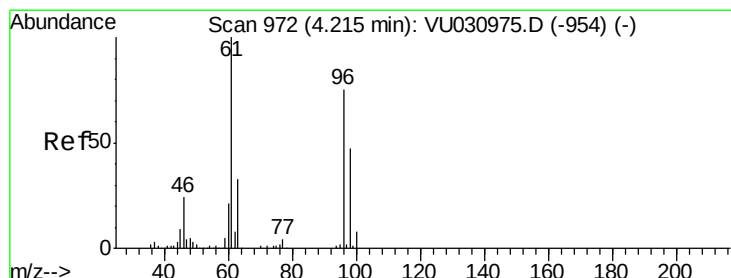
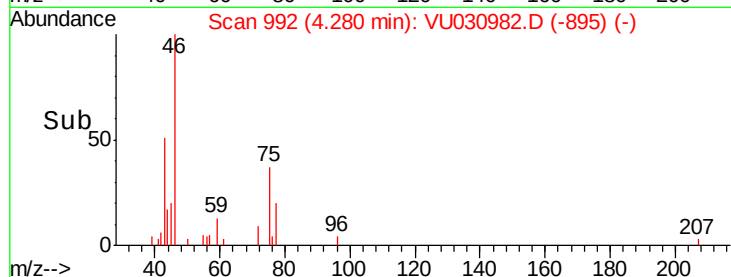
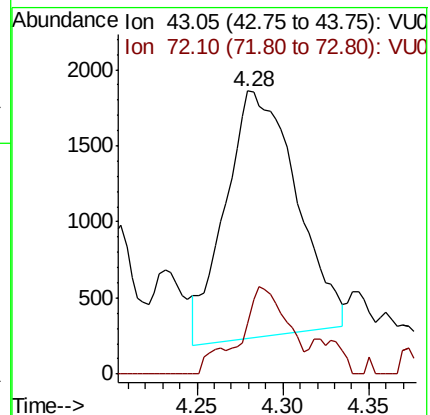
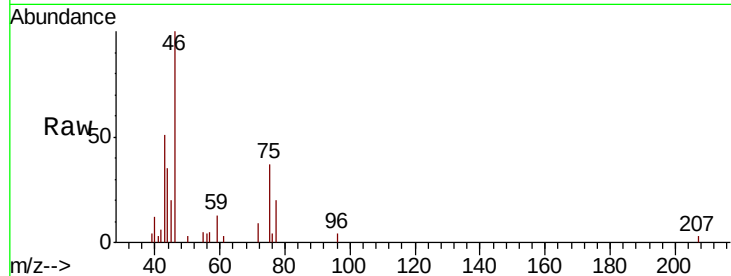
E3YD3RE

Tot Ion: 43 Resp: 4673

Ion Ratio Lower Upper

43 100

72 20.5 11.2 33.5



#22

cis-1,2-Dichloroethene

Concen: 0.342 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.01 min

Lab File: VU030982.D

Acq: 10 Apr 2019 02:20

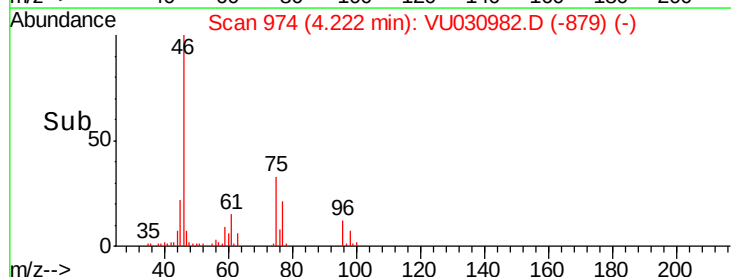
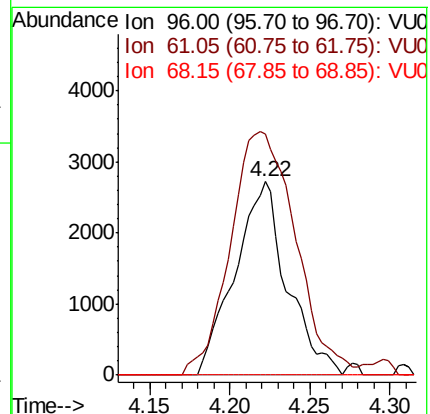
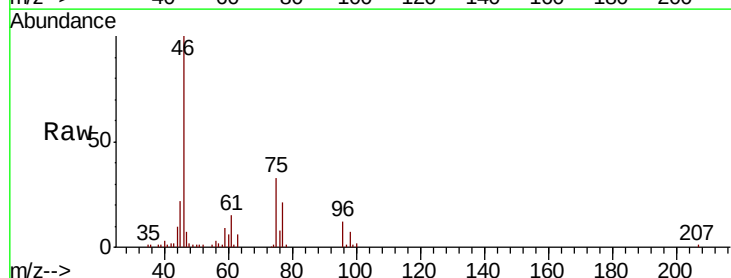
Tgt Ion: 96 Resp: 6085

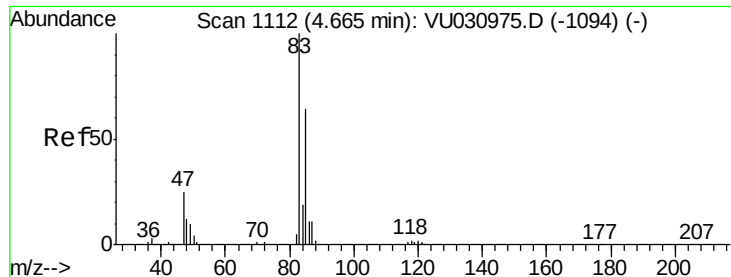
Ion Ratio Lower Upper

96 100

61 124.8 98.9 183.7

68 0.0 0.0 0.0

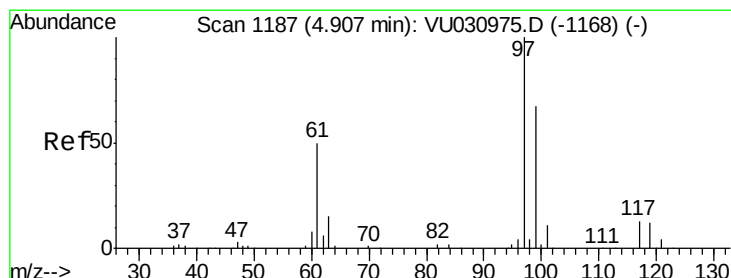
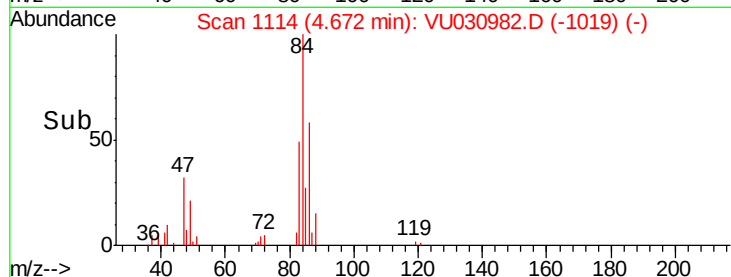
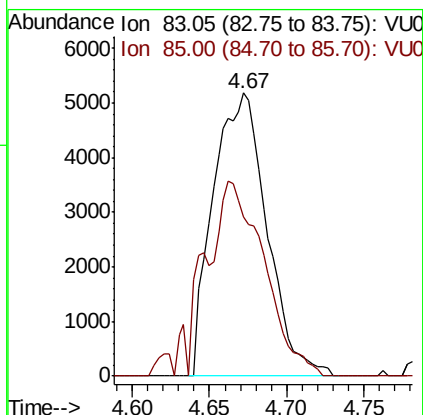
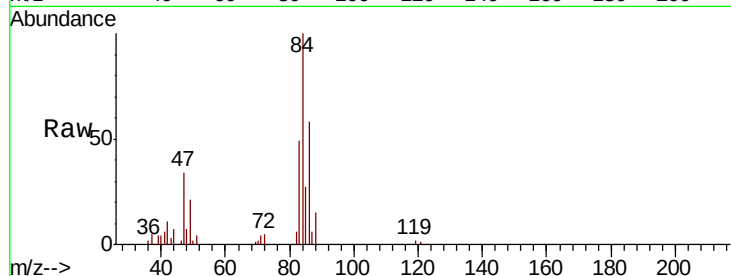




#25  
Chloroform  
Concen: 0.389 ug/L  
RT: 4.67 min Scan# 1114  
Delta R.T. 0.01 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

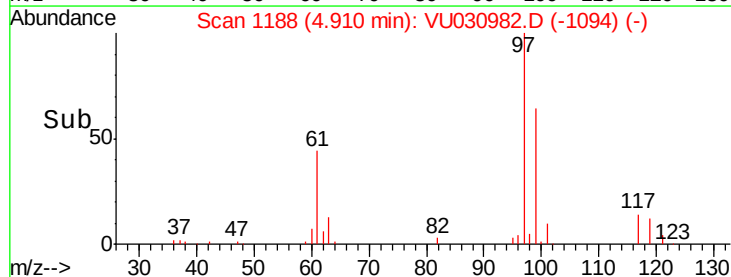
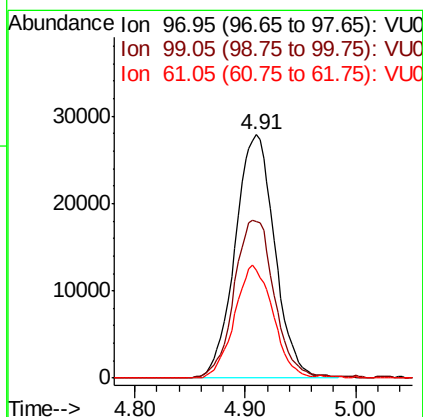
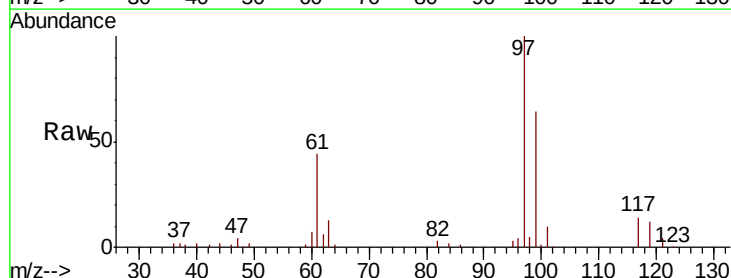
Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YD3RE

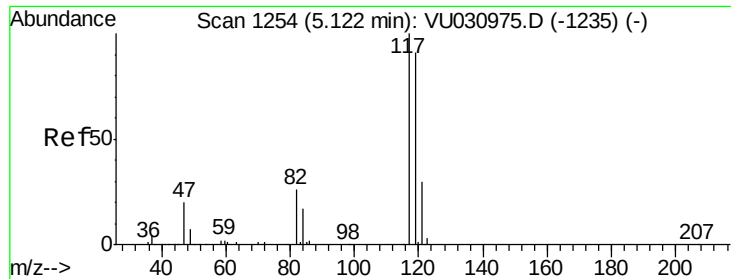
Tot Ion: 83 Resp: 12518  
Ion Ratio Lower Upper  
83 100  
85 56.2 44.2 82.2



#29  
1,1,1-Trichloroethane  
Concen: 2.422 ug/L  
RT: 4.91 min Scan# 1188  
Delta R.T. 0.00 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

Tgt Ion: 97 Resp: 69245  
Ion Ratio Lower Upper  
97 100  
99 66.3 51.8 77.6  
61 45.1 38.1 57.1





#31

Carbon tetrachloride

Concen: 0.372 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.21 min

Lab File: VU030982.D

Acq: 10 Apr 2019 02:20

Instrument :

MSVOA\_U

ClientSampleId :

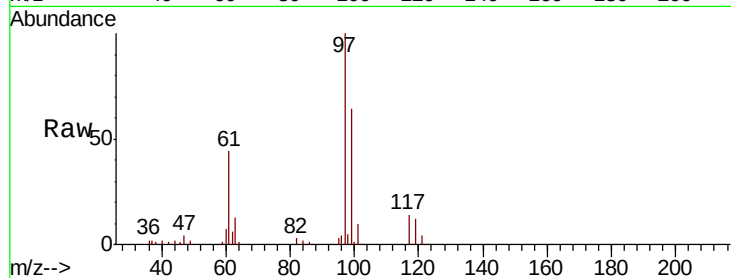
E3YD3RE

Tot Ion:117 Resp: 8918

Ion Ratio Lower Upper

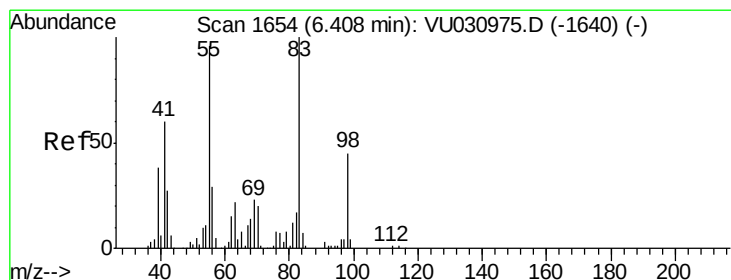
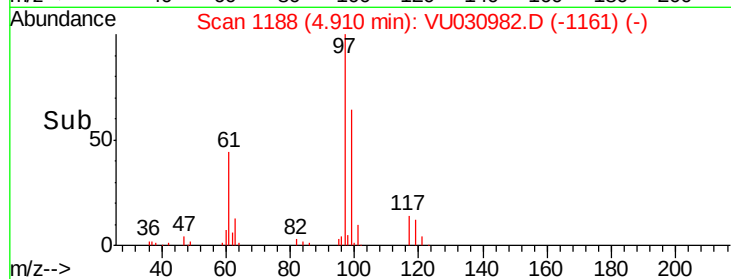
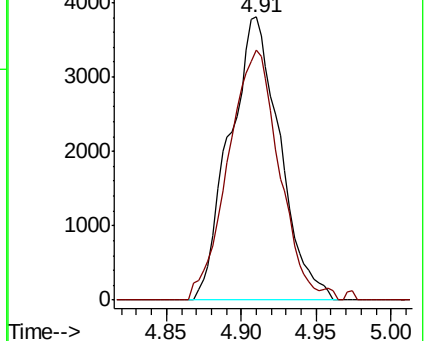
117 100

119 89.6 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#35

Methylcyclohexane

Concen: 0.684 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.08 min

Lab File: VU030982.D

Acq: 10 Apr 2019 02:20

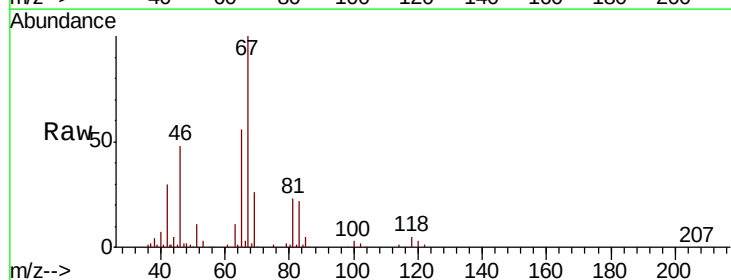
Tgt Ion: 83 Resp: 20753

Ion Ratio Lower Upper

83 100

55 0.5 72.6 108.8#

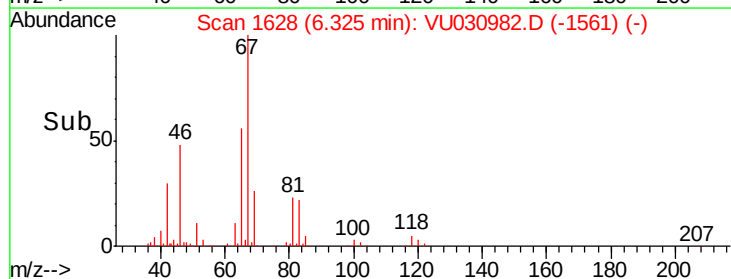
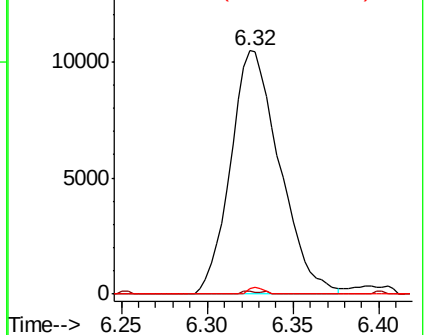
98 0.8 35.0 52.6#

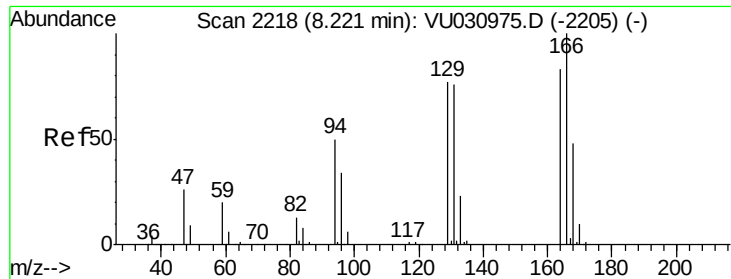


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

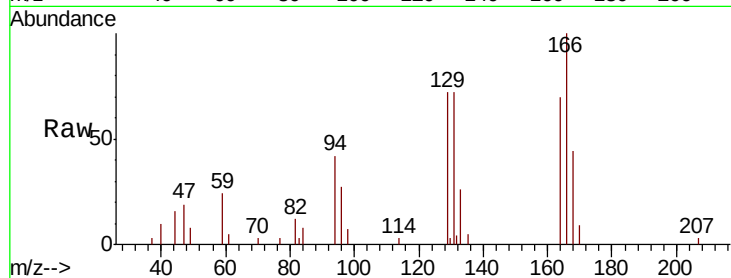




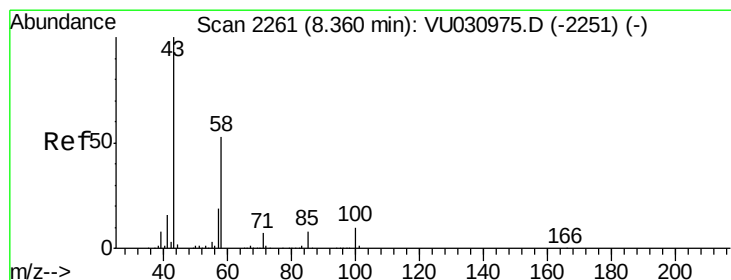
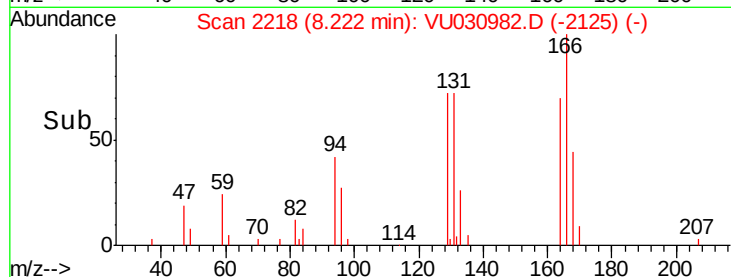
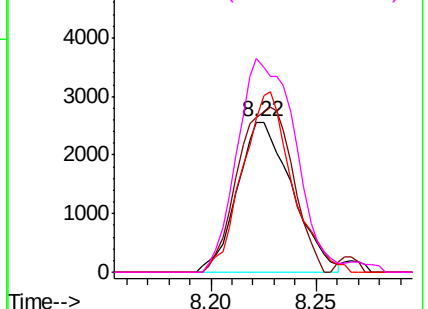
#47  
Tetrachloroethene  
Concen: 0.347 ug/L  
RT: 8.22 min Scan# 2218  
Delta R.T. 0.00 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YD3RE

Tot Ion:164 Resp: 4623  
Ion Ratio Lower Upper  
164 100  
129 103.0 70.1 130.1  
131 102.5 67.8 125.8  
166 142.5 87.9 163.3

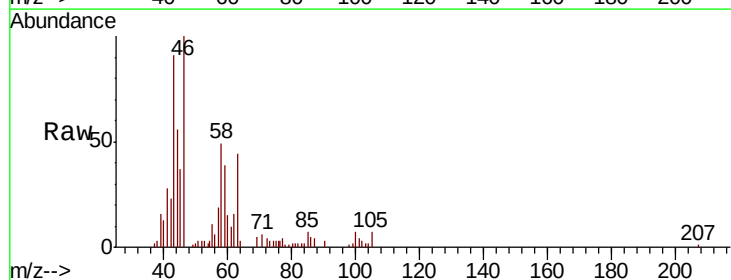


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

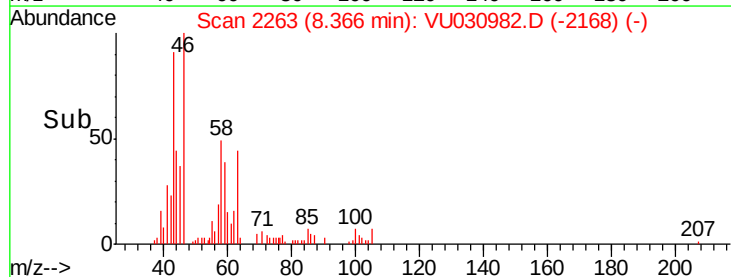
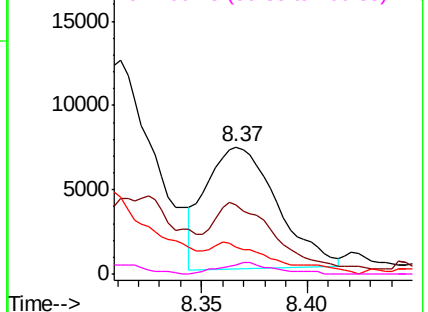


#48  
2-Hexanone  
Concen: 1.892 ug/L  
RT: 8.37 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: VU030982.D  
Acq: 10 Apr 2019 02:20

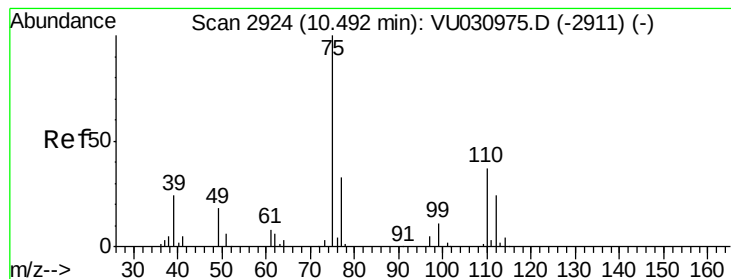
Tgt Ion: 43 Resp: 17087  
Ion Ratio Lower Upper  
43 100  
58 45.9 42.5 63.7  
57 13.1 13.9 20.9#  
100 6.6 7.1 10.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0







#59

1,2,3-Trichloropropane

Concen: 0.905 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU030982.D

Acq: 10 Apr 2019 02:20

Instrument :

MSVOA\_U

ClientSampleId :

E3YD3RE

Tot Ion: 75 Resp: 10568

Ion Ratio Lower Upper

75 100

77 41.8 25.6 38.4#

