

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091618\  
 Data File : VU026815.D  
 Acq On : 17 Sep 2018 10:49  
 Operator : MD/SY  
 Sample : J4864-05DL 4X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 17 15:45:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091618WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Sep 17 07:09:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 127616   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 104602   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 42507    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

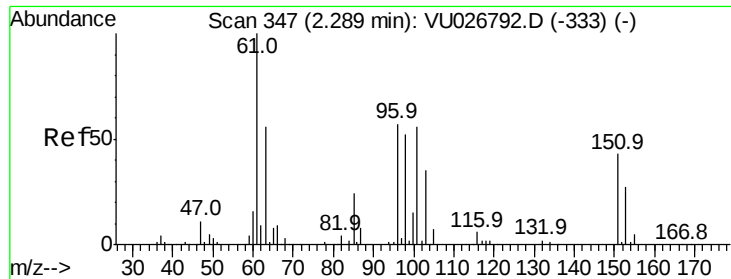
|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 40967    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 36366    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 57708    | 3.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 65.00%  |
| 20) 2-Butanone-d5              | 4.22   | 46    | 102591   | 47.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.92%  |
| 24) Chloroform-d               | 4.65   | 84    | 75062    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 39659    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 32) Benzene-d6                 | 5.34   | 84    | 156023   | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.60% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 49522    | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.20% |
| 41) Toluene-d8                 | 7.57   | 98    | 121262   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.60%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 15958    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.40%  |
| 46) 2-Hexanone-d5              | 8.33   | 63    | 62697    | 45.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 36193    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 42278    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.20% |

## Target Compounds

|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 558   | 0.055 ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 514   | 0.054 ug/L # | 1      |
| 13) Acetone                    | 2.35  | 43  | 2222  | 1.168 ug/L   | 59     |
| 15) Methyl Acetate             | 2.63  | 43  | 6826  | 1.368 ug/L # | 88     |
| 16) Methylene chloride         | 2.70  | 84  | 2750  | 0.238 ug/L   | 96     |
| 25) Chloroform                 | 4.68  | 83  | 2187  | 0.116 ug/L   | 85     |
| 31) Carbon tetrachloride       | 5.13  | 117 | 1069  | 0.081 ug/L   | 93     |
| 35) Methylcyclohexane          | 6.33  | 83  | 11747 | 0.724 ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 5244  | 0.504 ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 1161  | 0.083 ug/L # | 69     |
| 48) 2-Hexanone                 | 8.38  | 43  | 1485  | 0.343 ug/L # | 74     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 4835  | 0.791 ug/L   | 94     |
| 69) Naphthalene                | 13.75 | 128 | 616   | 0.041 ug/L # | 69     |

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





#10

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

Concen: 0.055 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU026815.D

Acq: 17 Sep 2018 10:49

Instrument :

MSVOA\_U

ClientSampleId :

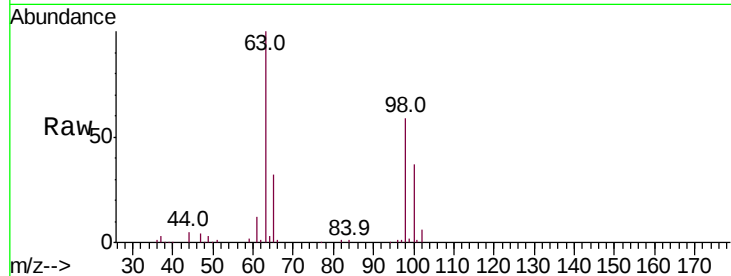
Tot Ion:101 Resp: 558

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

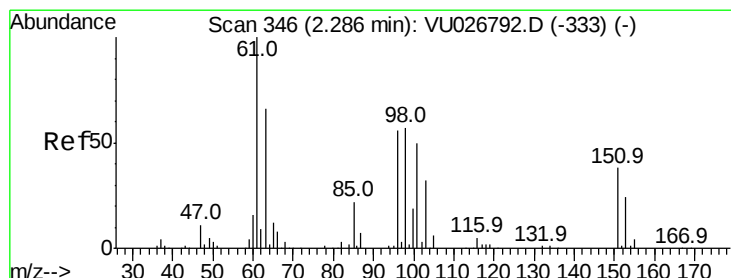
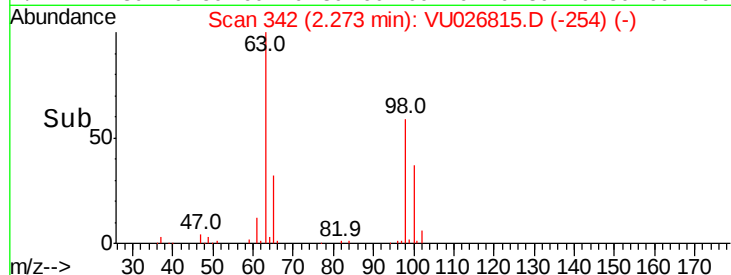
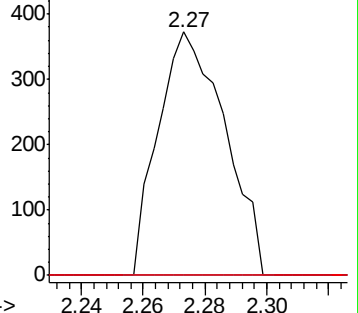
151 0.0 63.3 94.9#



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: 0.054 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU026815.D

Acq: 17 Sep 2018 10:49

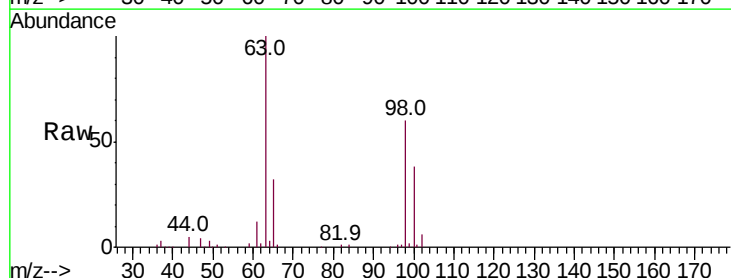
Tgt Ion: 96 Resp: 514

Ion Ratio Lower Upper

96 100

61 1350.3 126.6 235.2#

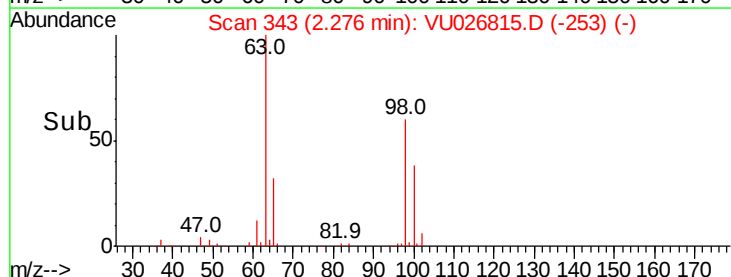
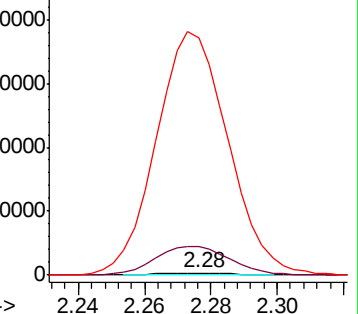
63 11336.6 91.3 169.5#

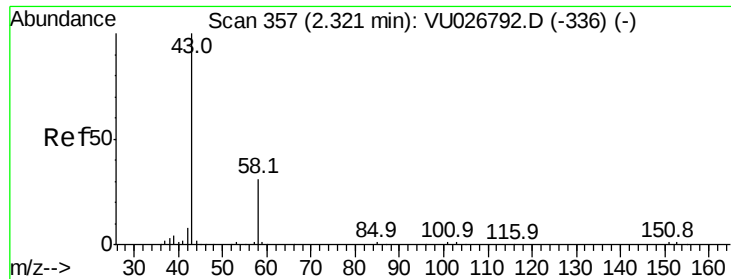


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.168 ug/L

RT: 2.35 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU026815.D

Acq: 17 Sep 2018 10:49

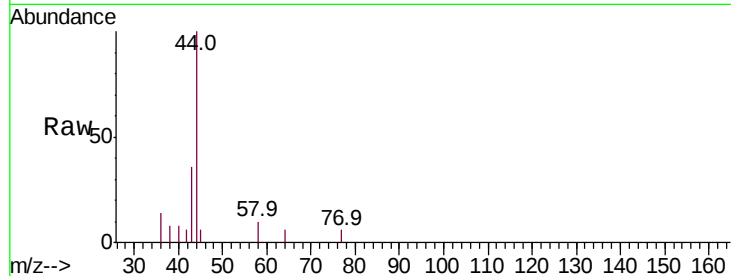
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 2222

Ion Ratio Lower Upper

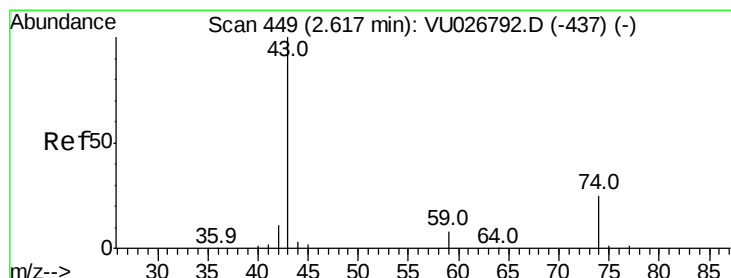
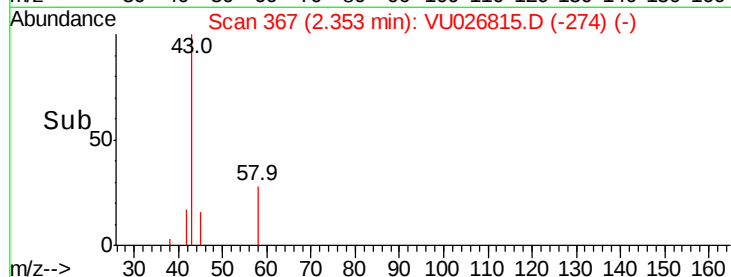
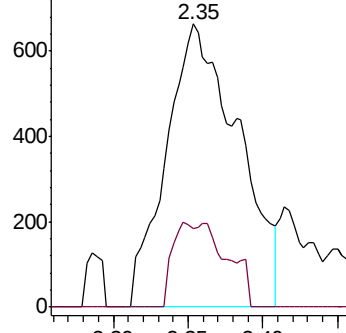
43 100

58 8.9 0.0 63.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 1.368 ug/L

RT: 2.63 min Scan# 453

Delta R.T. 0.00 min

Lab File: VU026815.D

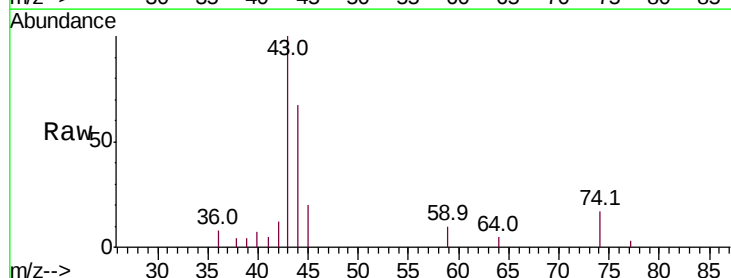
Acq: 17 Sep 2018 10:49

Tgt Ion: 43 Resp: 6826

Ion Ratio Lower Upper

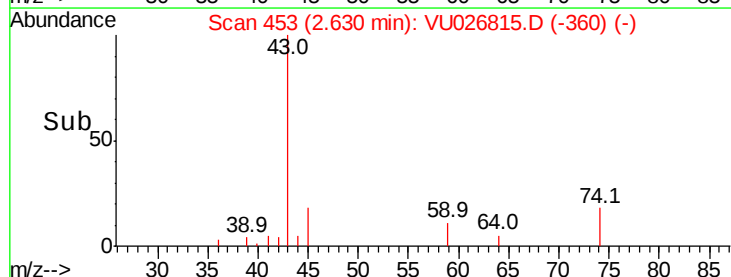
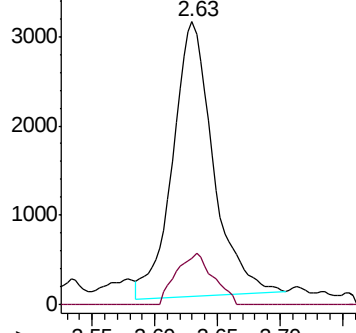
43 100

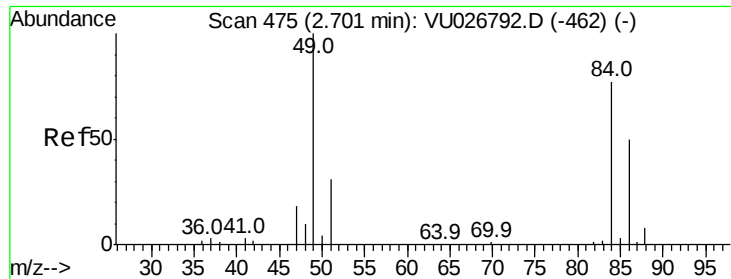
74 17.3 18.5 27.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

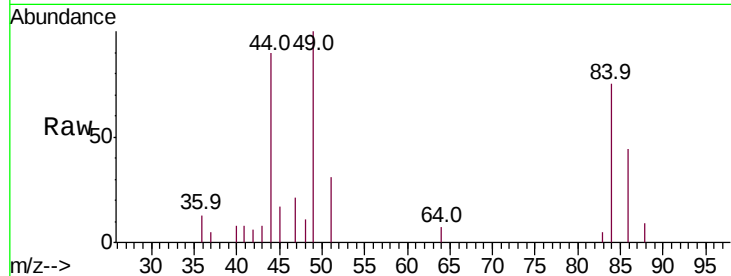




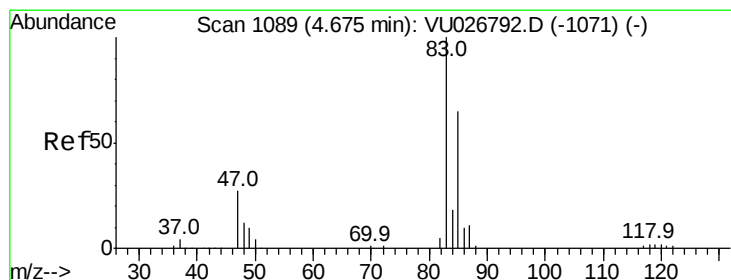
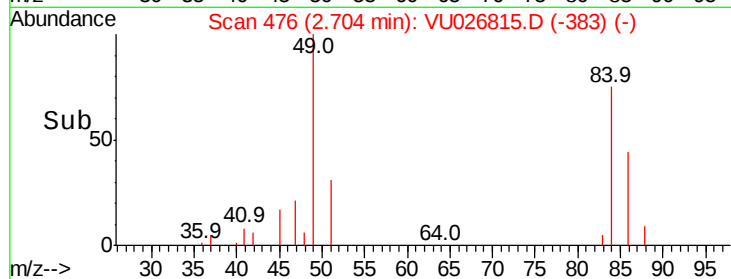
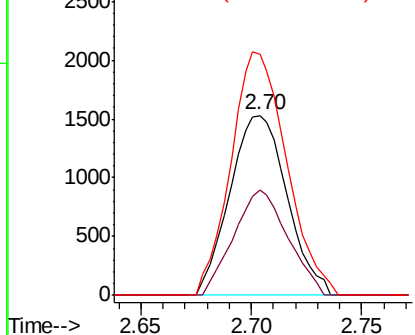
#16  
Methvlene chloride  
Concen: 0.238 ug/L  
RT: 2.70 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VU026815.D  
Acq: 17 Sep 2018 10:49

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 84 Resp: 2750  
Ion Ratio Lower Upper  
84 100  
86 58.6 46.1 85.5  
49 134.1 92.1 171.1

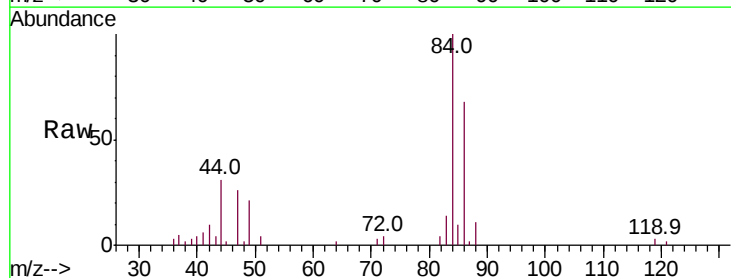


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

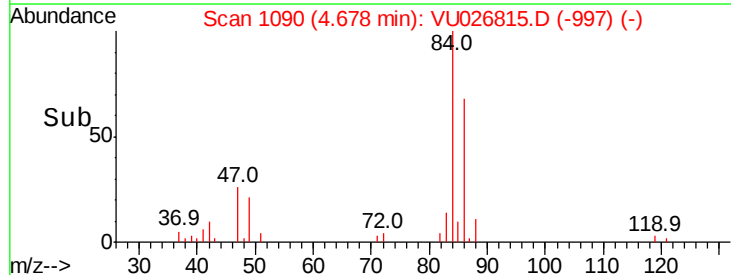
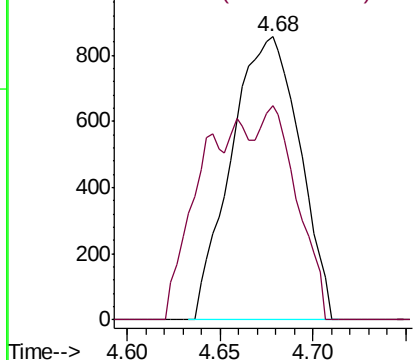


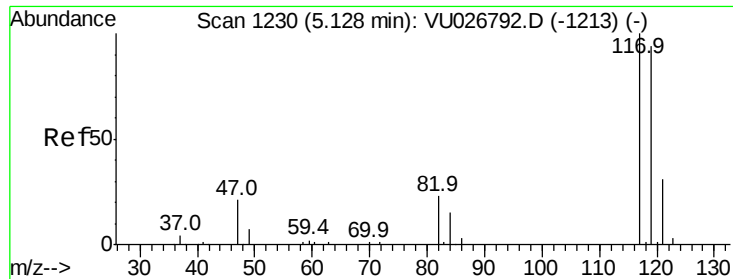
#25  
Chloroform  
Concen: 0.116 ug/L  
RT: 4.68 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VU026815.D  
Acq: 17 Sep 2018 10:49

Tgt Ion: 83 Resp: 2187  
Ion Ratio Lower Upper  
83 100  
85 75.8 44.8 83.2



Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0

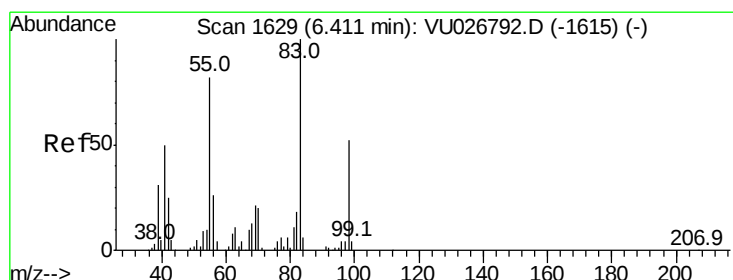
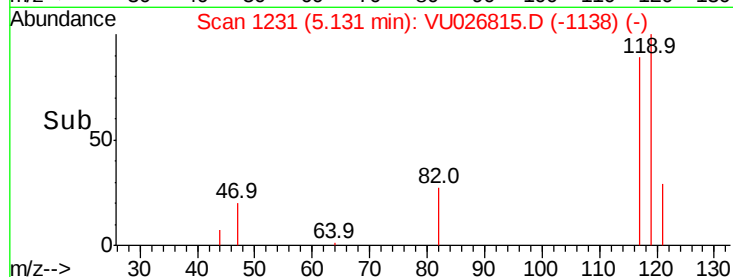
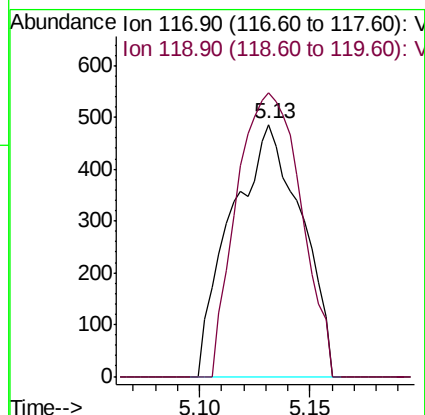
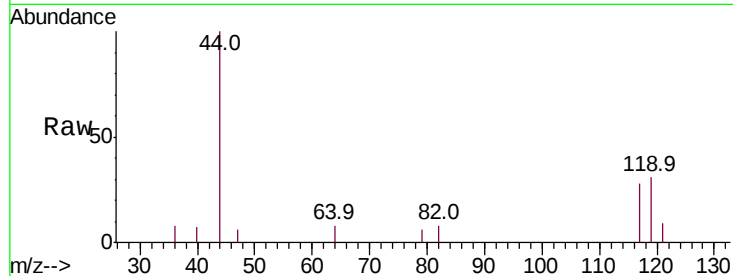




#31  
Carbon tetrachloride  
Concen: 0.081 ug/L  
RT: 5.13 min Scan# 1231  
Delta R.T. 0.00 min  
Lab File: VU026815.D  
Acq: 17 Sep 2018 10:49

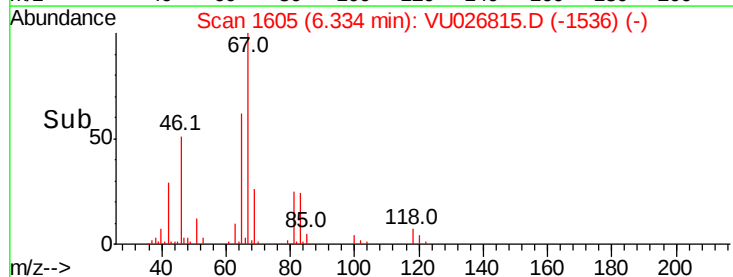
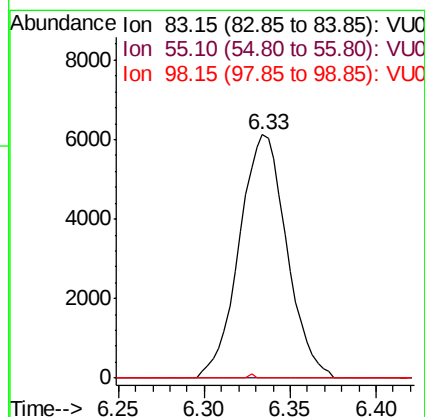
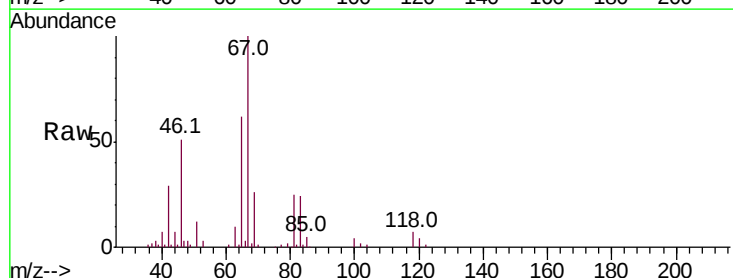
Instrument :  
MSVOA\_U  
ClientSampleId :

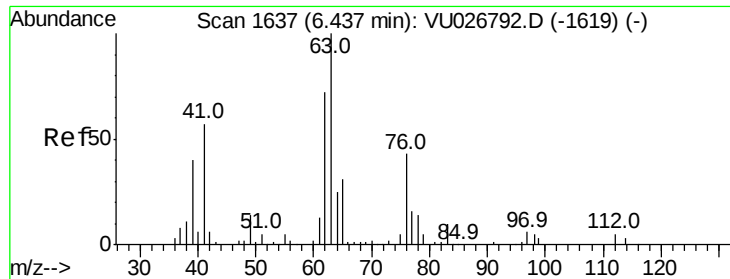
Tot Ion:117 Resp: 1069  
Ion Ratio Lower Upper  
117 100  
119 103.2 76.9 115.3



#35  
Methylcyclohexane  
Concen: 0.724 ug/L  
RT: 6.33 min Scan# 1605  
Delta R.T. -0.08 min  
Lab File: VU026815.D  
Acq: 17 Sep 2018 10:49

Tgt Ion: 83 Resp: 11747  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.9 97.3#  
98 0.2 39.3 58.9#





#37

1,2-Dichloropropane

Concen: 0.504 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU026815.D

Acq: 17 Sep 2018 10:49

Instrument :

MSVOA\_U

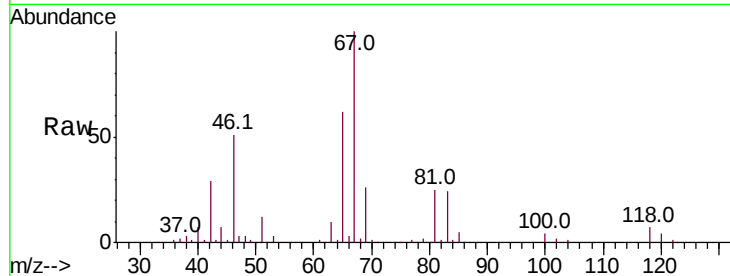
ClientSampleId :

Tot Ion: 63 Resp: 5244

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VU026815.D (-1619) (-)

Ion 112.10 (111.80 to 112.80): VU026815.D (-1619) (-)

3000

2500

2000

1500

1000

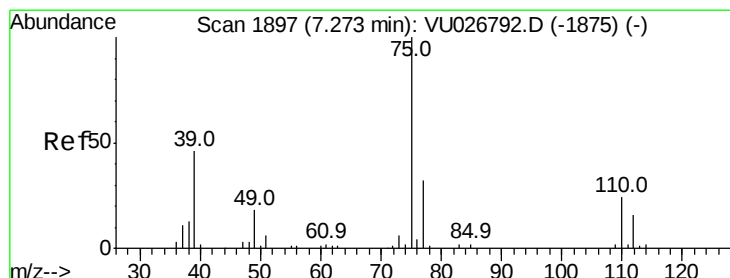
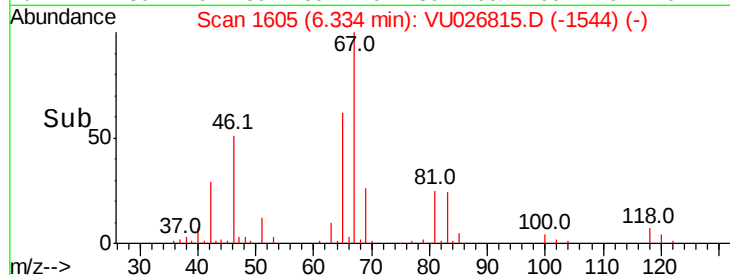
500

0

6.30 6.35 6.40

6.33

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.23 min Scan# 1885

Delta R.T. -0.04 min

Lab File: VU026815.D

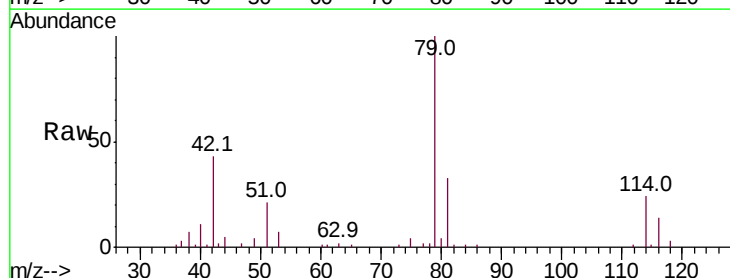
Acq: 17 Sep 2018 10:49

Tgt Ion: 75 Resp: 1161

Ion Ratio Lower Upper

75 100

77 48.2 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU026815.D (-1875) (-)

Ion 77.05 (76.75 to 77.75): VU026815.D (-1875) (-)

800

600

400

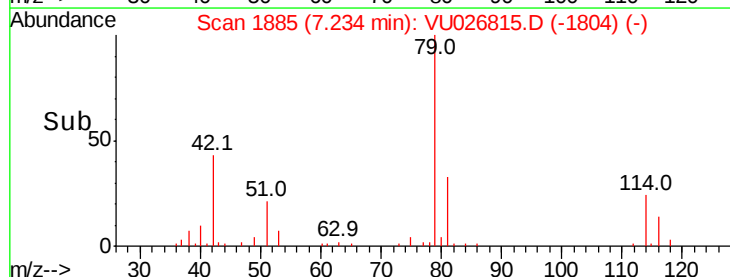
200

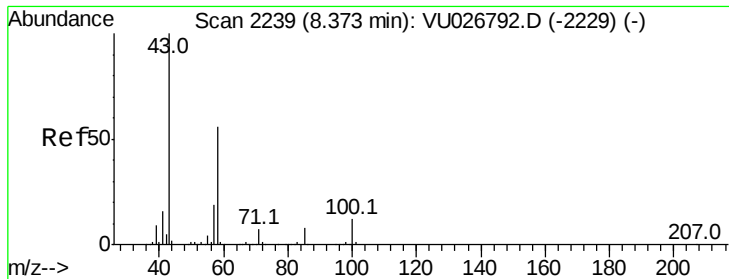
0

7.20 7.25

7.23

Time-->

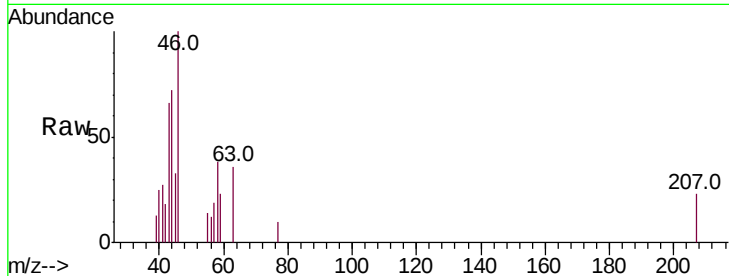




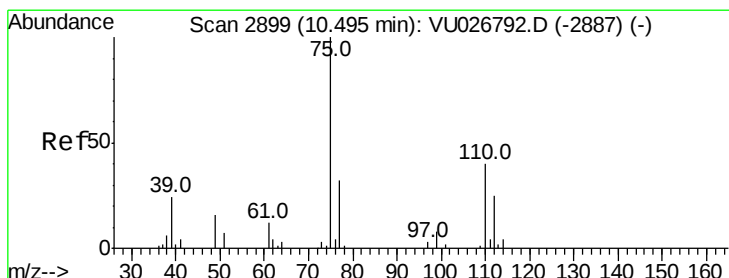
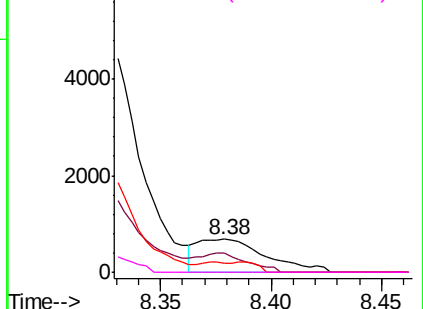
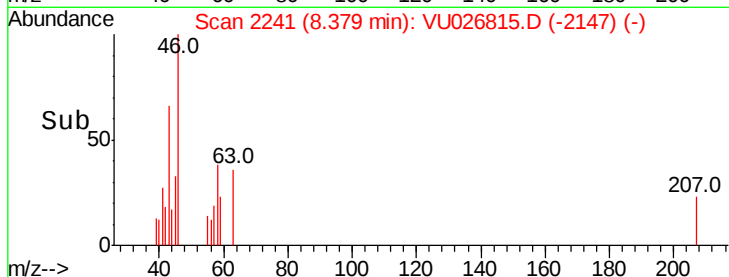
#48  
 2-Hexanone  
 Concen: 0.343 ug/L  
 RT: 8.38 min Scan# 2241  
 Delta R.T. 0.00 min  
 Lab File: VU026815.D  
 Acq: 17 Sep 2018 10:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.5  | 43.7  | 65.5# |
| 57      | 0.0   | 15.2  | 22.8# |
| 100     | 0.0   | 10.1  | 15.1# |

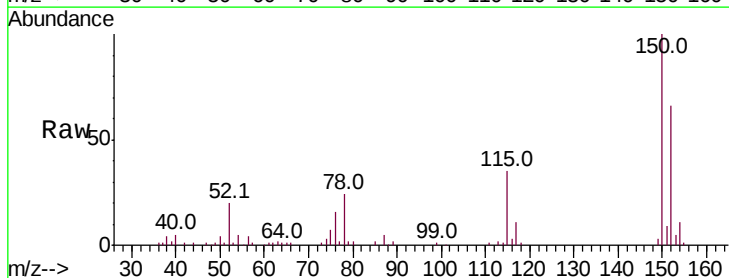


Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 58.05 (57.75 to 58.75): VU0  
 Ion 57.20 (56.90 to 57.90): VU0  
 Ion 100.15 (99.85 to 100.85): VU0

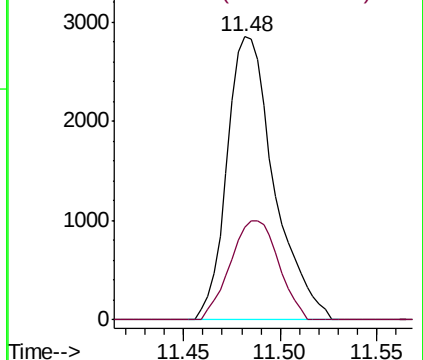
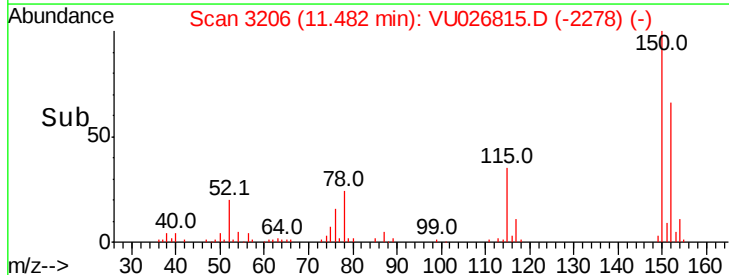


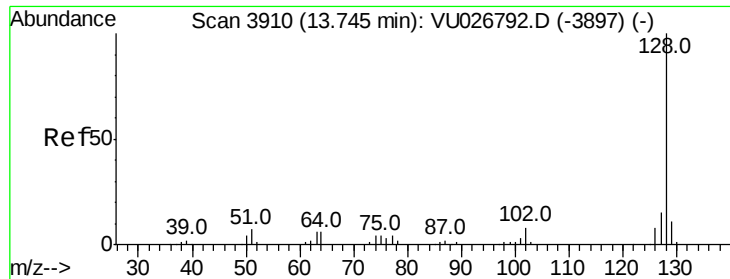
#59  
 1,2,3-Trichloropropane  
 Concen: 0.791 ug/L  
 RT: 11.48 min Scan# 3206  
 Delta R.T. 0.98 min  
 Lab File: VU026815.D  
 Acq: 17 Sep 2018 10:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 35.9  | 25.9  | 38.9  |



Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 0.041 ug/L

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU026815.D

Acq: 17 Sep 2018 10:49

Instrument :

MSVOA\_U

ClientSampleId :

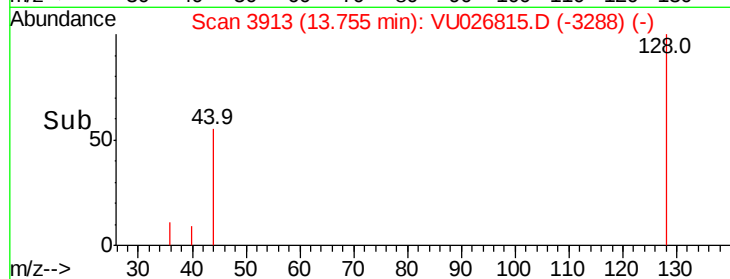
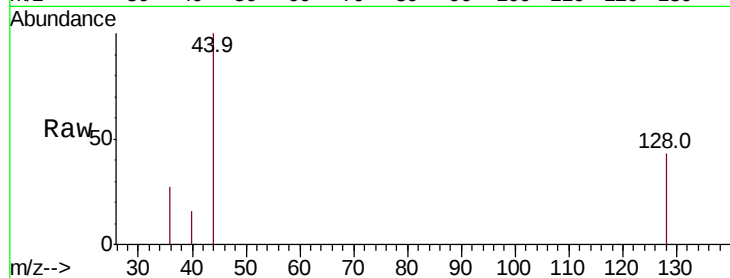
Tot Ion:128 Resp: 616

Ion Ratio Lower Upper

128 100

129 0.0 8.6 12.8#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

