

Data File : VU027535.D  
Acq On : 09 Oct 2018 20:45  
Operator : MD/SY  
Sample : J5139-02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

Quant Time: Oct 10 05:59:56 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 119441   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 193712   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 170560   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 68657    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 99310    | 49.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.58%  |      |
| 35) Dibromofluoromethane  | 4.89   | 113 | 68422    | 51.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.08% |      |
| 50) Toluene-d8            | 7.57   | 98  | 247696   | 49.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.70%  |      |
| 62) 4-Bromofluorobenzene  | 10.31  | 95  | 77030    | 41.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 83.44%  |      |

Target Compounds

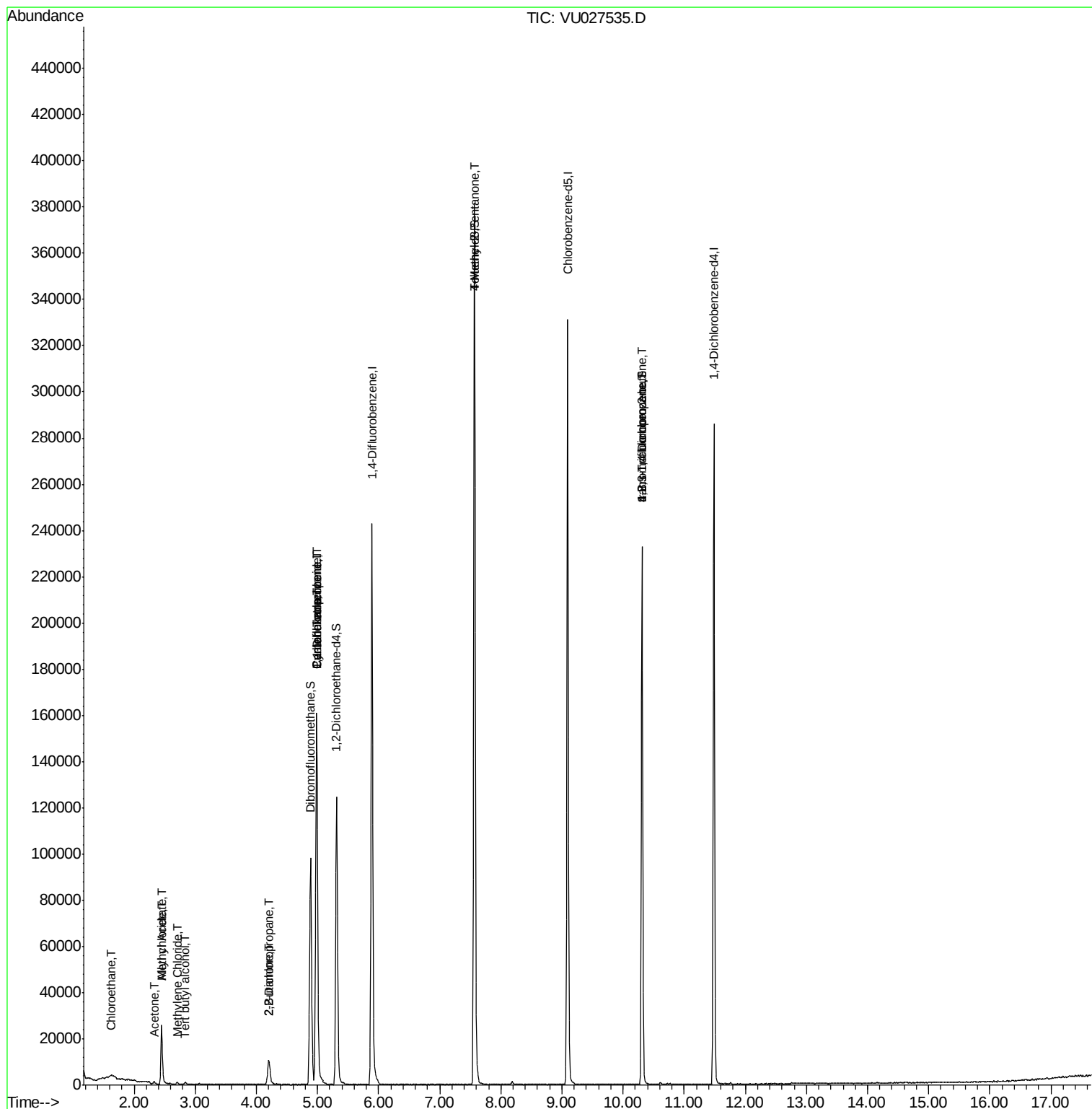
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 6) Chloroethane                | 1.62  | 64  | 287   | 0.218  | ug/l # | 44     |
| 11) Tert butyl alcohol         | 2.84  | 59  | 755   | 1.798  | ug/l # | 72     |
| 14) Allyl chloride             | 2.45  | 41  | 2639  | 0.881  | ug/l # | 70     |
| 16) Acetone                    | 2.32  | 43  | 1075  | 0.912  | ug/l   | 96     |
| 18) Methyl Acetate             | 2.45  | 43  | 6568  | 2.444  | ug/l # | 56     |
| 20) Methylene Chloride         | 2.70  | 84  | 508   | 0.310  | ug/l # | 85     |
| 25) 2-Butanone                 | 4.20  | 43  | 417   | 0.260  | ug/l # | 54     |
| 26) 2,2-Dichloropropane        | 4.20  | 77  | 682   | 0.265  | ug/l # | 56     |
| 31) Cyclohexane                | 4.99  | 56  | 2747  | 0.624  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.99  | 75  | 10659 | 5.068  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 12169 | 6.405  | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43  | 1302  | 0.475  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 41844 | 23.511 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 41844 | 61.531 | ug/l # | 100    |

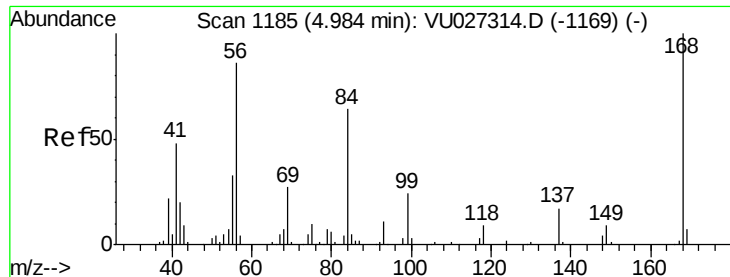
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027535.D

Acq: 09 Oct 2018 20:45

Instrument :

MSVOA\_U

ClientSampleId :

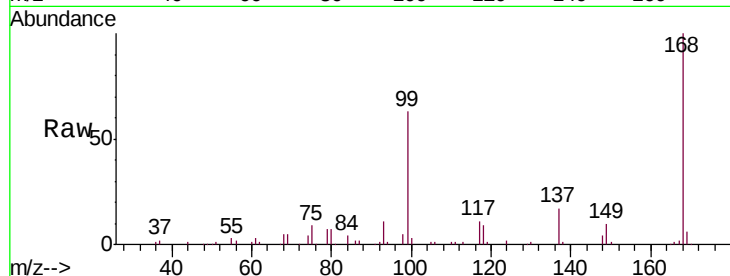
FB-09-27-18

Tgt Ion:168 Resp: 119441

Ion Ratio Lower Upper

168 100

99 62.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

50000

40000

30000

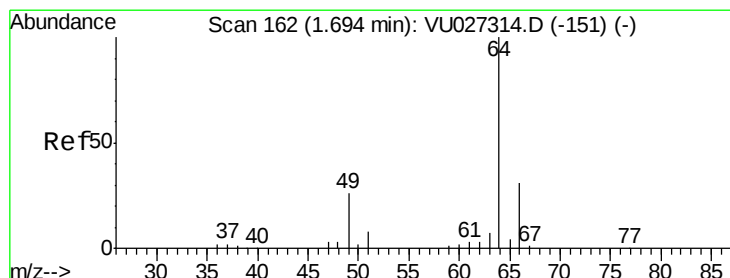
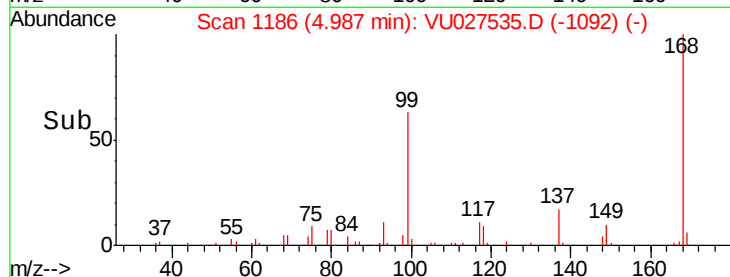
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#6

Chloroethane

Concen: 0.218 ug/l

RT: 1.62 min Scan# 140

Delta R.T. -0.07 min

Lab File: VU027535.D

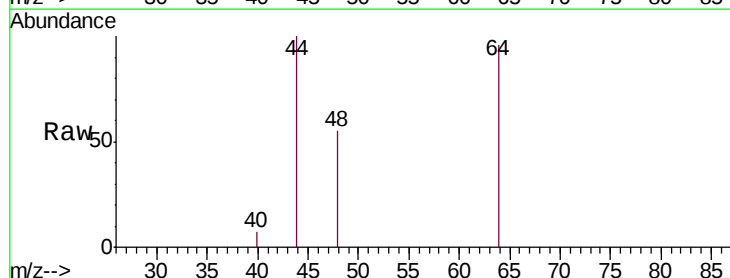
Acq: 09 Oct 2018 20:45

Tgt Ion: 64 Resp: 287

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VU027314.D (-151) (-)

Ion 65.90 (65.60 to 66.60): VU027314.D (-151) (-)

1.62

1500

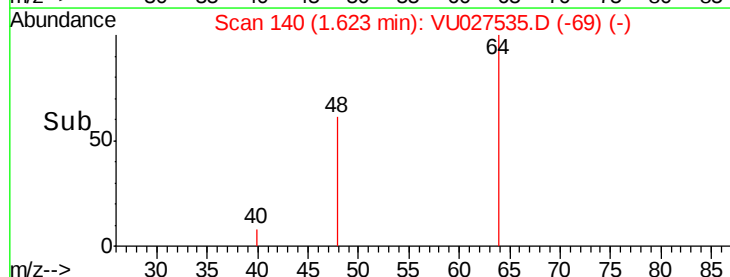
1000

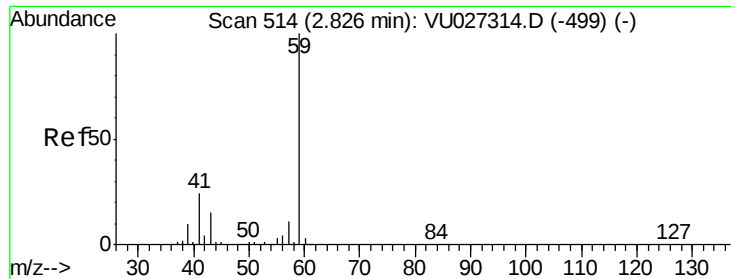
500

0

1.61 1.62 1.63 1.64

Time-->

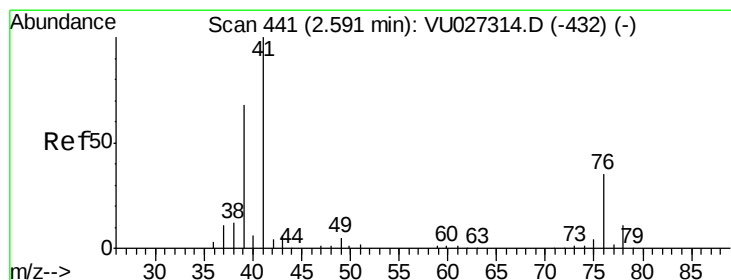
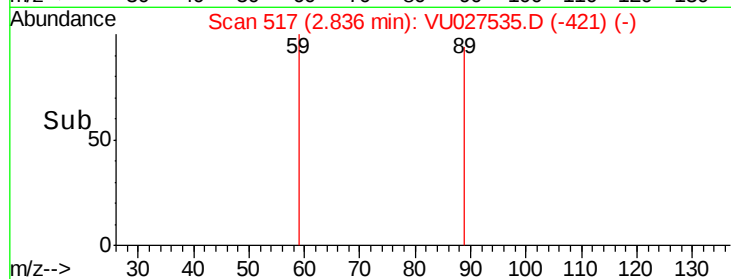
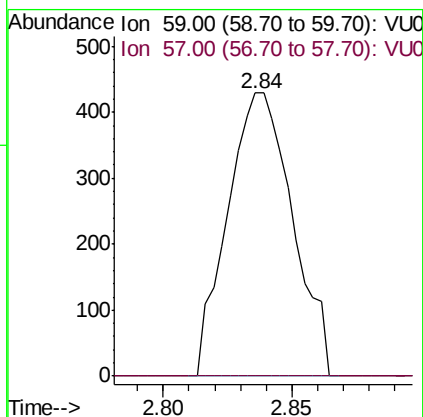
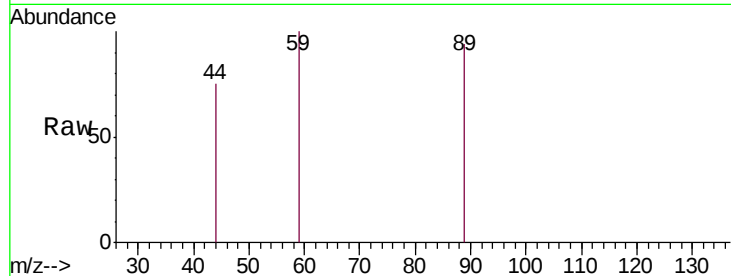




#11  
Tert butyl alcohol  
Concen: 1.798 ug/l  
RT: 2.84 min Scan# 517  
Delta R.T. 0.01 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

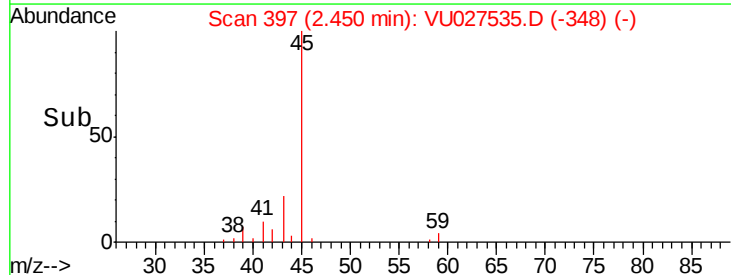
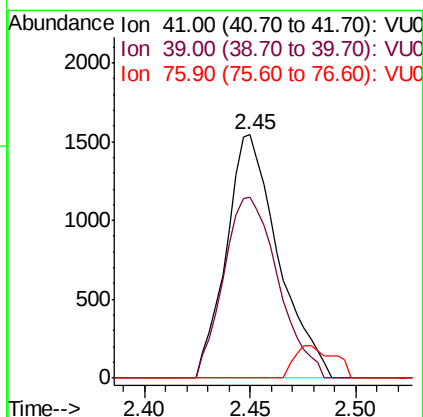
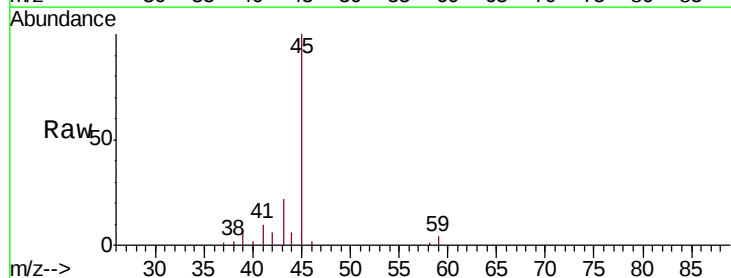
Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

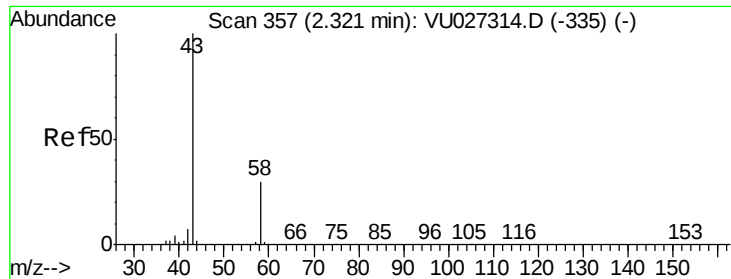
Tgt Ion: 59 Resp: 755  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#



#14  
Allyl chloride  
Concen: 0.881 ug/l  
RT: 2.45 min Scan# 397  
Delta R.T. -0.14 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion: 41 Resp: 2639  
Ion Ratio Lower Upper  
41 100  
39 77.9 51.8 77.8#  
76 0.0 25.9 38.9#





#16

Acetone

Concen: 0.912 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027535.D

Acq: 09 Oct 2018 20:45

Instrument :

MSVOA\_U

ClientSampleId :

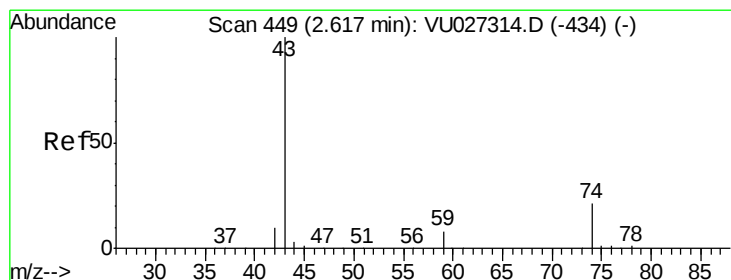
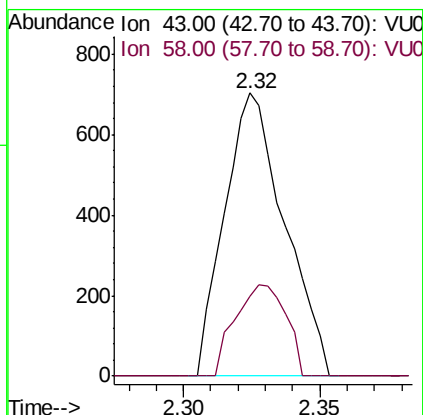
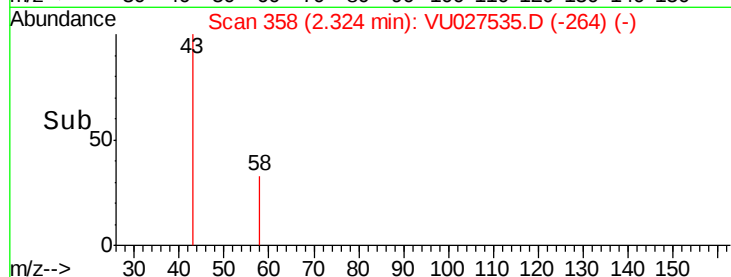
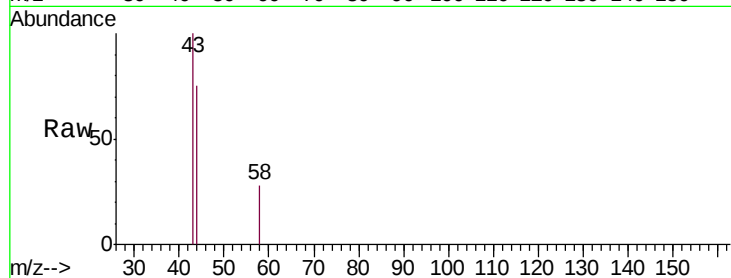
FB-09-27-18

Tgt Ion: 43 Resp: 1075

Ion Ratio Lower Upper

43 100

58 28.2 24.2 36.4



#18

Methyl Acetate

Concen: 2.444 ug/l

RT: 2.45 min Scan# 396

Delta R.T. -0.17 min

Lab File: VU027535.D

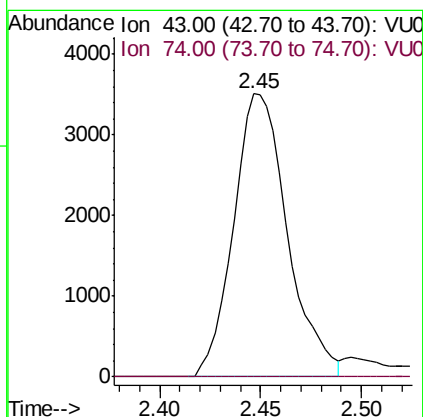
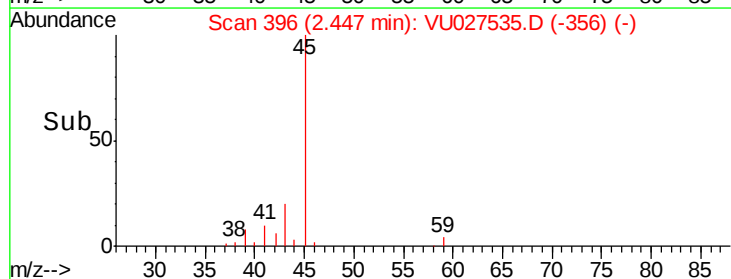
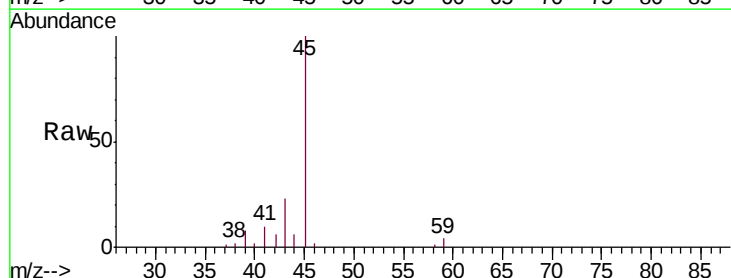
Acq: 09 Oct 2018 20:45

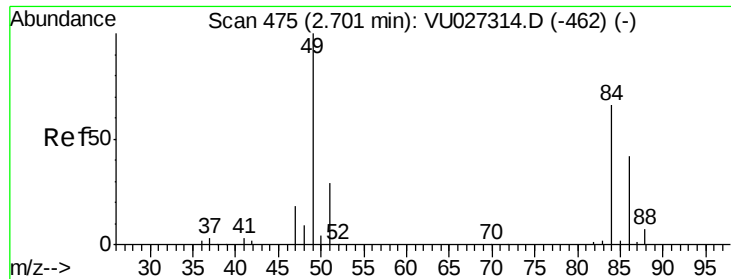
Tgt Ion: 43 Resp: 6568

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#

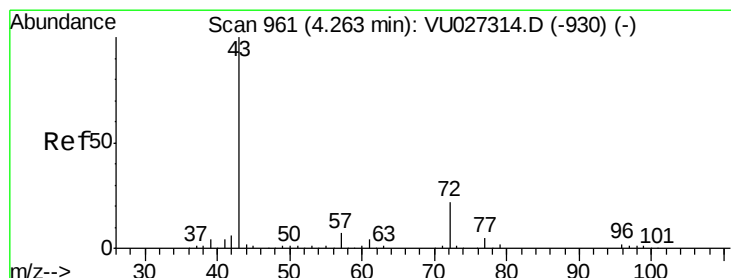
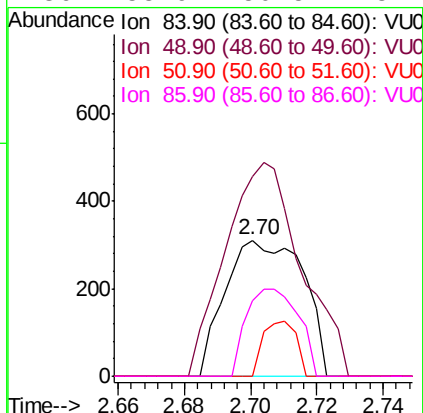
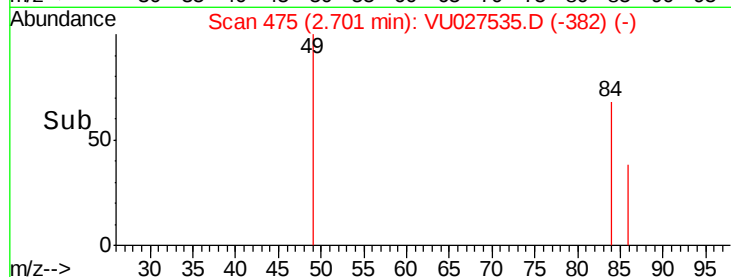
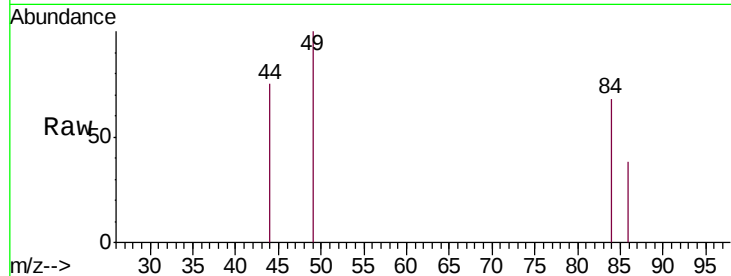




#20  
Methylene Chloride  
Concen: 0.310 ug/l  
RT: 2.70 min Scan# 475  
Delta R.T. -0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

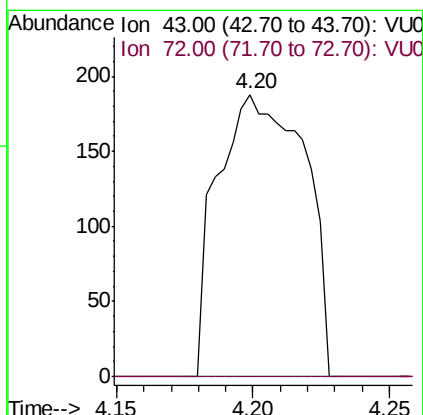
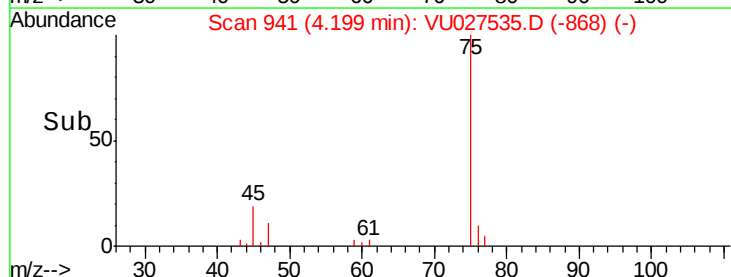
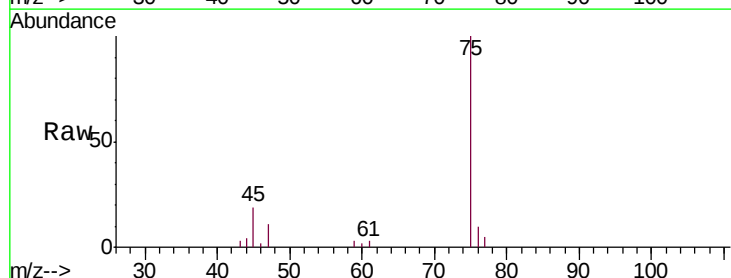
Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

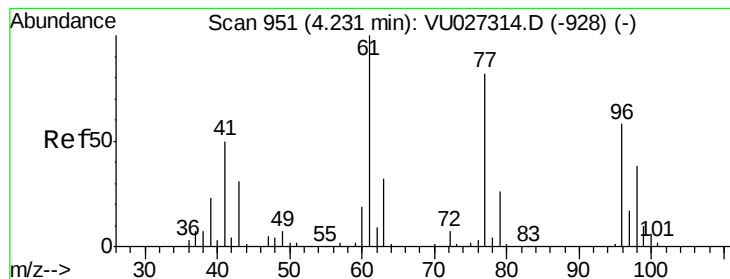
Tgt Ion: 84 Resp: 508  
Ion Ratio Lower Upper  
84 100  
49 147.3 120.5 180.7  
51 0.0 35.1 52.7#  
86 55.9 50.5 75.7



#25  
2-Butanone  
Concen: 0.260 ug/l  
RT: 4.20 min Scan# 941  
Delta R.T. -0.06 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion: 43 Resp: 417  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.8 26.6#





#26

2,2-Dichloropropane

Concen: 0.265 ug/l

RT: 4.20 min Scan# 941

Delta R.T. -0.03 min

Lab File: VU027535.D

Acq: 09 Oct 2018 20:45

Instrument :

MSVOA\_U

ClientSampleId :

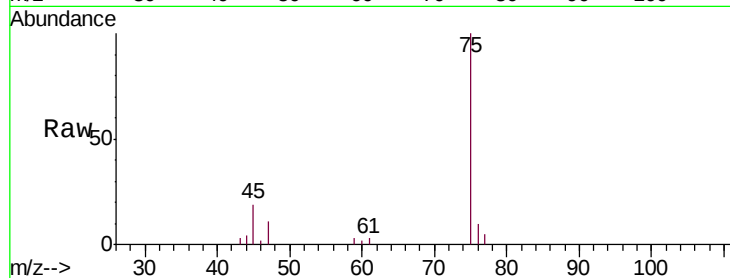
FB-09-27-18

Tgt Ion: 77 Resp: 682

Ion Ratio Lower Upper

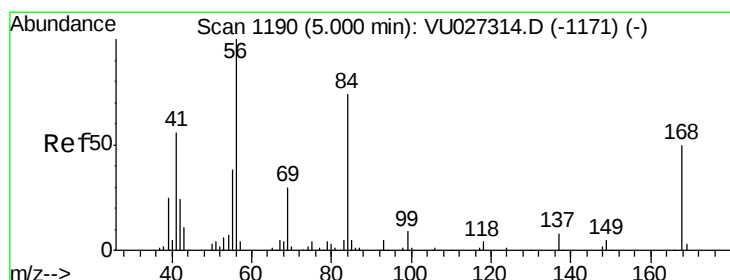
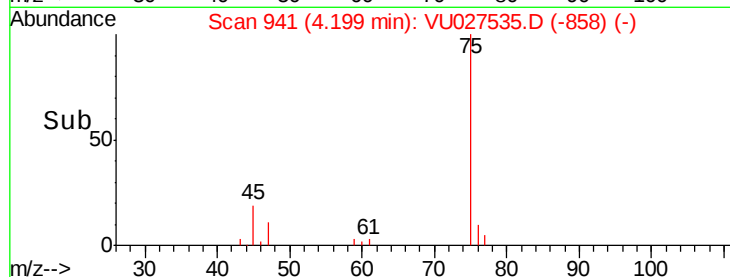
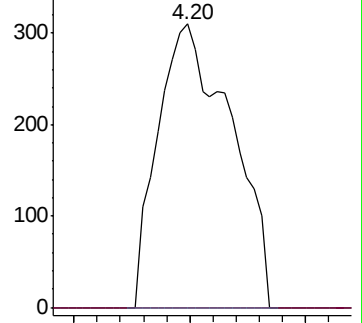
77 100

97 0.0 10.4 31.1#



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0



#31

Cyclohexane

Concen: 0.624 ug/l

RT: 4.99 min Scan# 1187

Delta R.T. -0.01 min

Lab File: VU027535.D

Acq: 09 Oct 2018 20:45

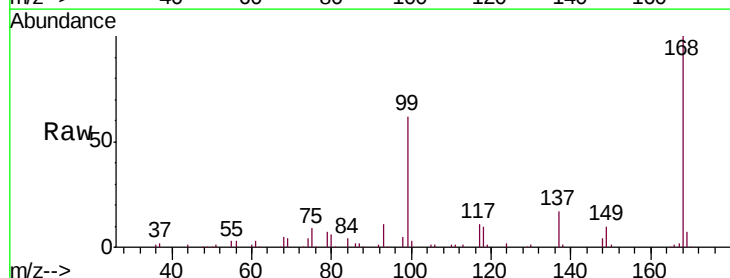
Tgt Ion: 56 Resp: 2747

Ion Ratio Lower Upper

56 100

69 164.3 24.1 36.1#

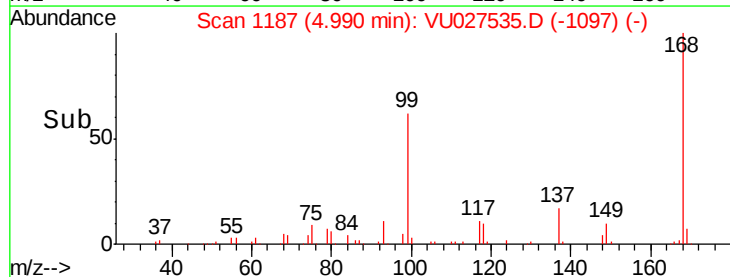
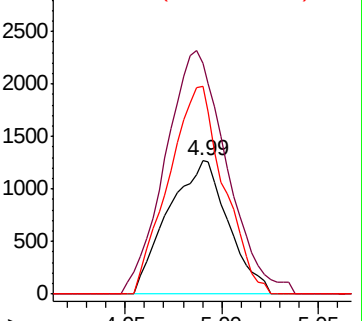
84 155.7 59.1 88.7#

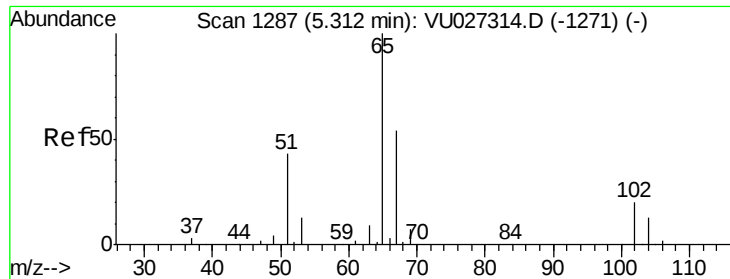


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

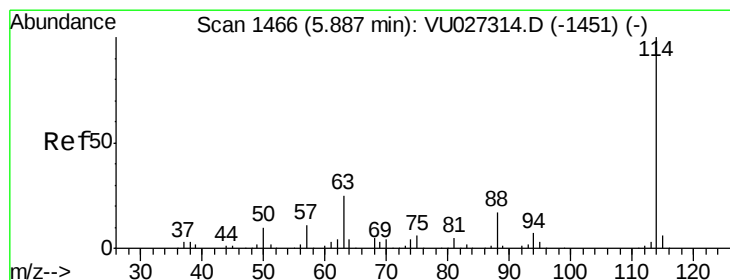
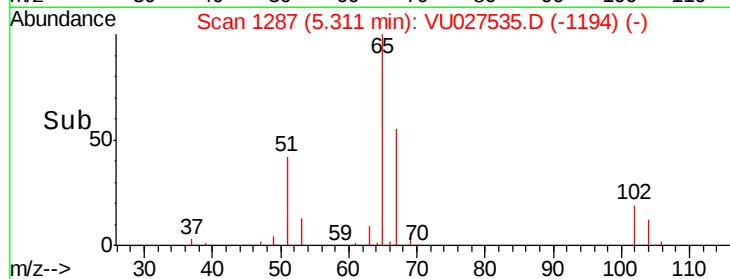
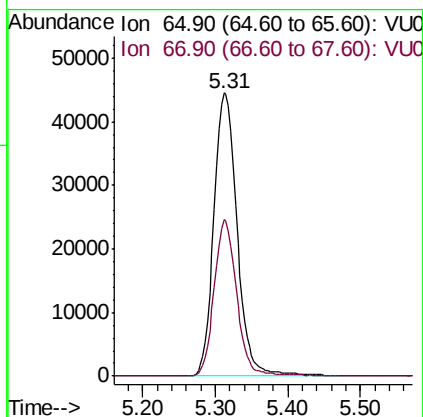
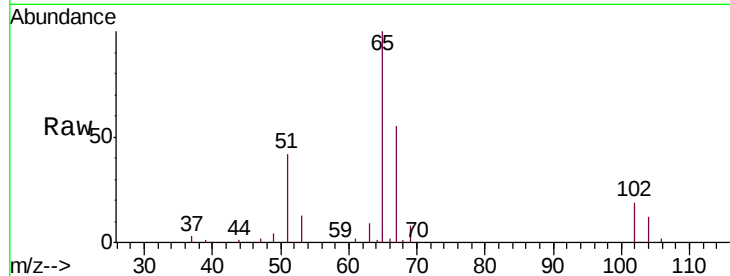




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.793 ug/l  
 RT: 5.31 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

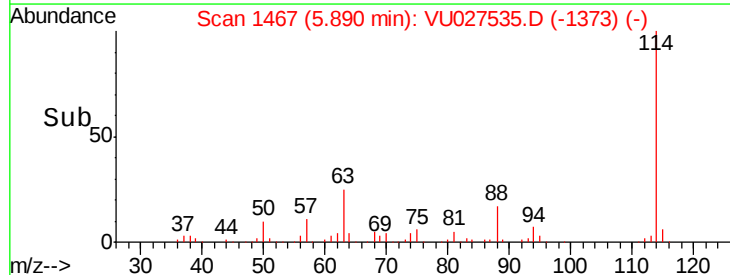
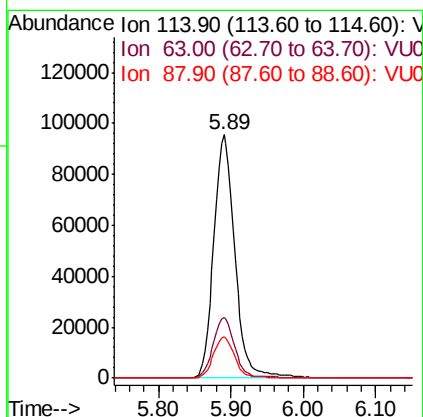
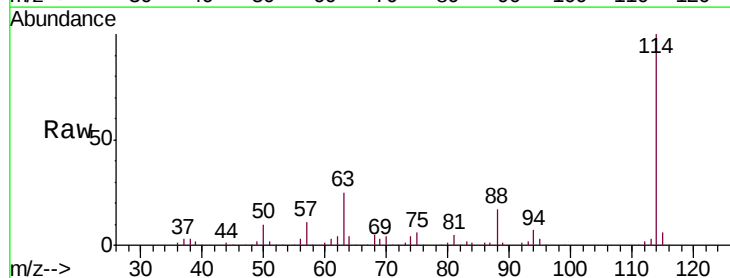
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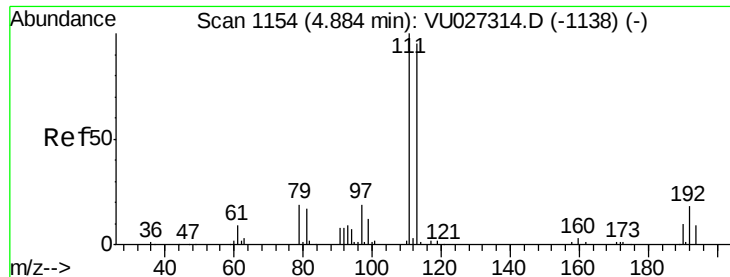
Tgt Ion: 65 Resp: 99310  
 Ion Ratio Lower Upper  
 65 100  
 67 53.5 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Tgt Ion: 114 Resp: 193712  
 Ion Ratio Lower Upper  
 114 100  
 63 25.0 0.0 50.2  
 88 16.9 0.0 33.8

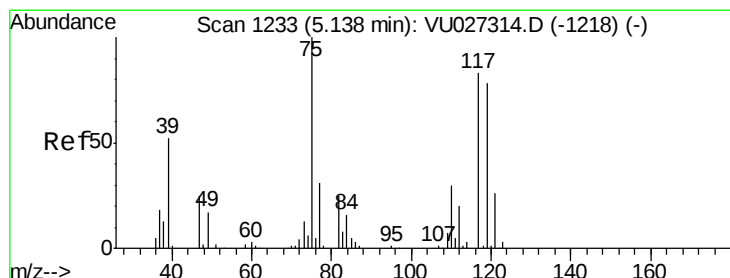
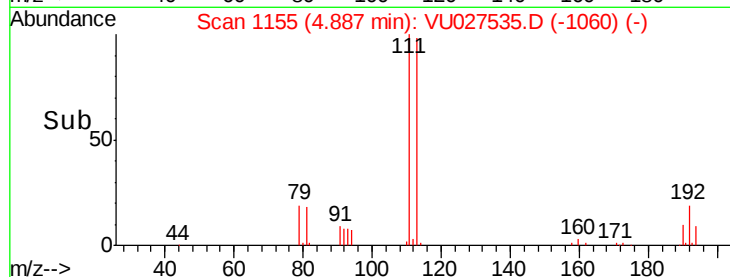
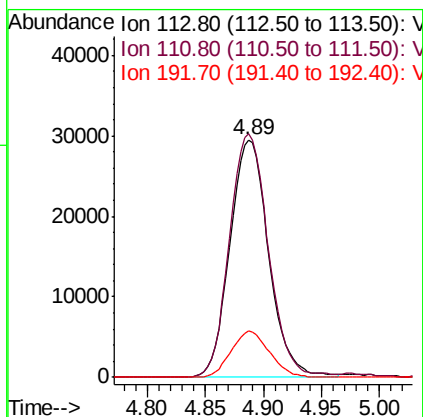
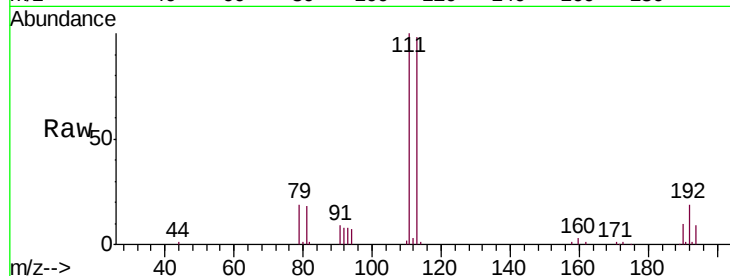




#35  
 Dibromofluoromethane  
 Concen: 51.539 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

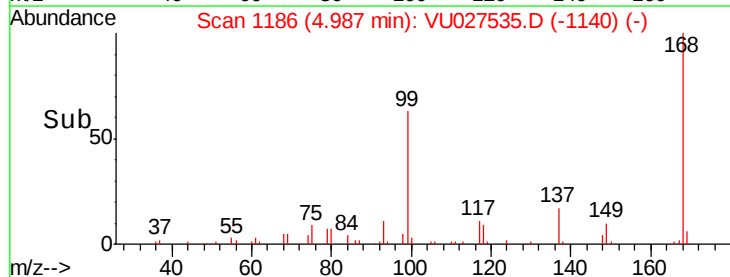
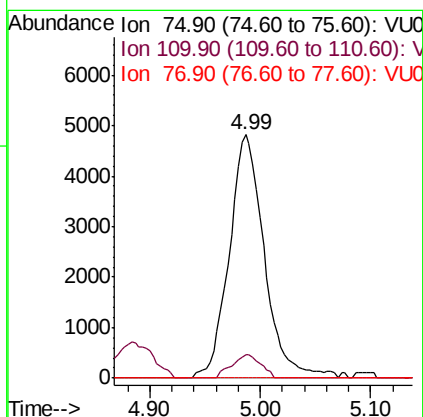
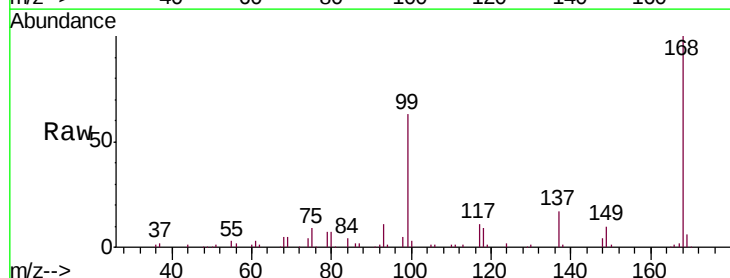
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FB-09-27-18

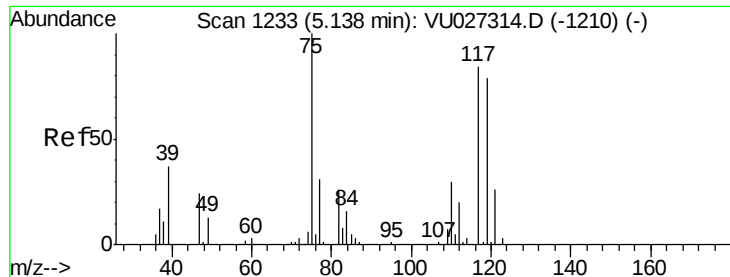
Tgt Ion:113 Resp: 68422  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 83.1 124.7  
 192 19.3 15.4 23.0



#36  
 1,1-Dichloropropene  
 Concen: 5.068 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Tgt Ion: 75 Resp: 10659  
 Ion Ratio Lower Upper  
 75 100  
 110 7.7 15.5 46.5#  
 77 0.0 25.4 38.0#

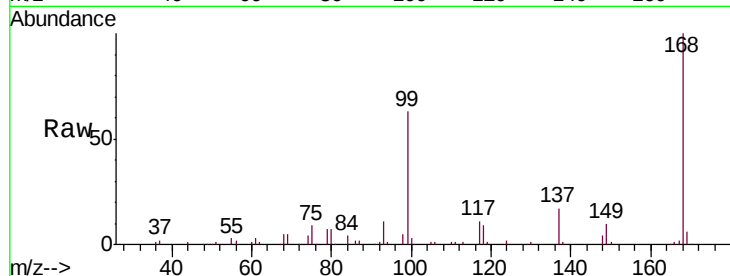




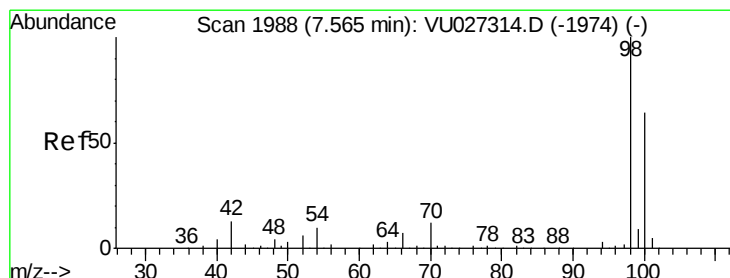
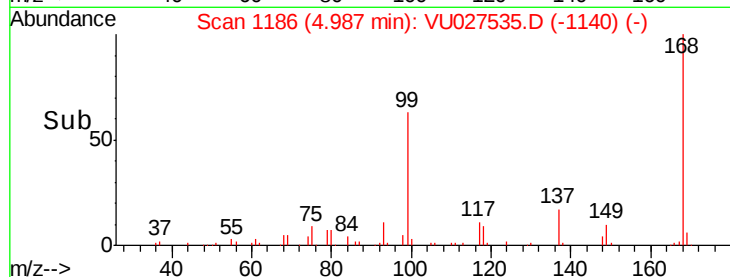
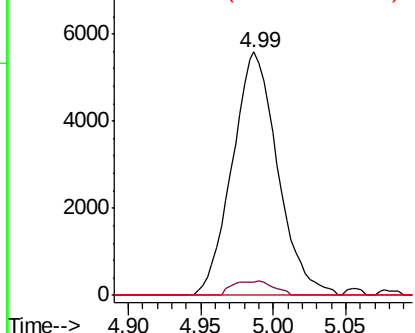
#38  
Carbon Tetrachloride  
Concen: 6.405 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.15 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

Tgt Ion: 117 Resp: 12169  
Ion Ratio Lower Upper  
117 100  
119 5.5 74.5 111.7#  
121 0.0 24.6 37.0#

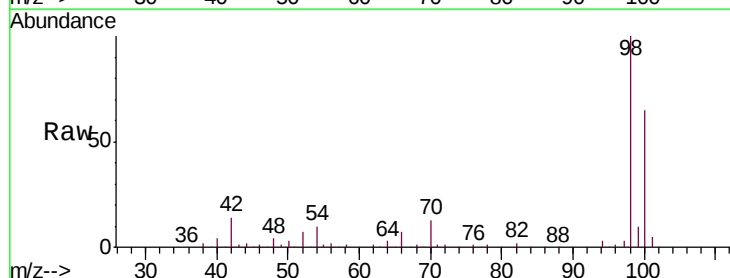


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

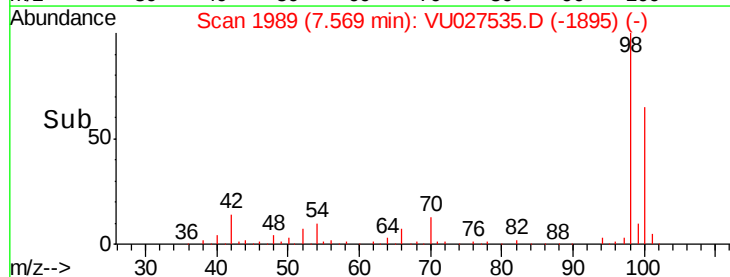
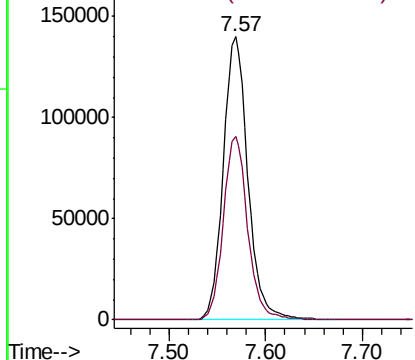


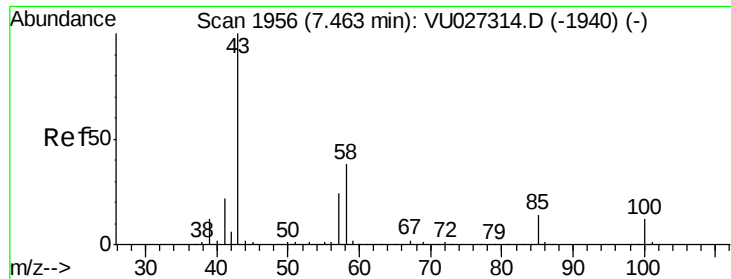
#50  
Toluene-d8  
Concen: 49.852 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion: 98 Resp: 247696  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

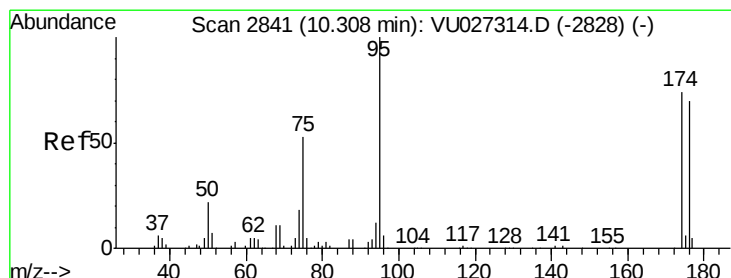
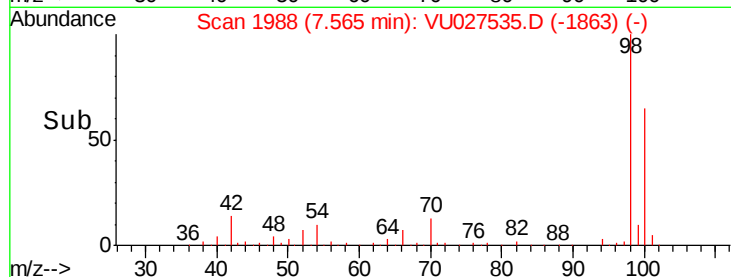
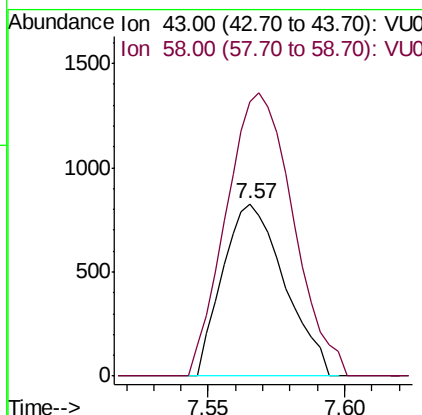
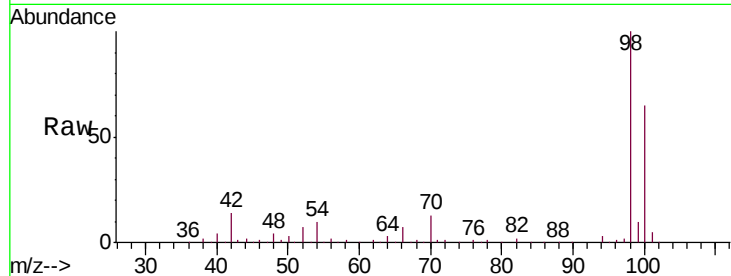




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.475 ug/l  
 RT: 7.57 min Scan# 1988  
 Delta R.T. 0.10 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

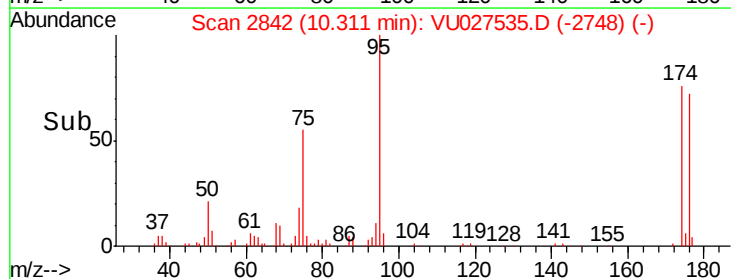
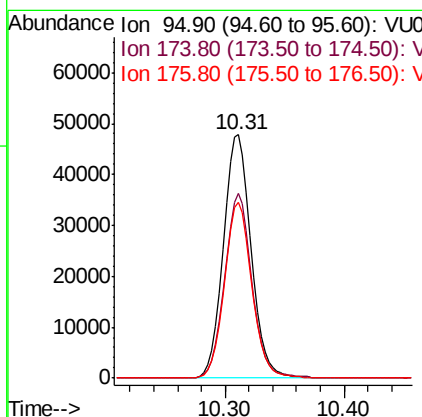
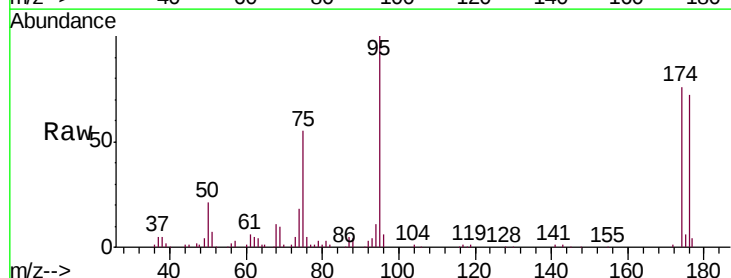
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FB-09-27-18

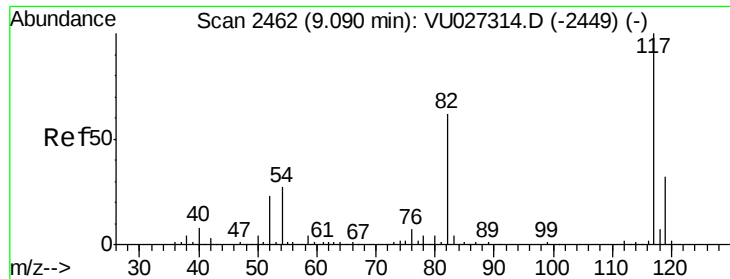
Tgt Ion: 43 Resp: 1302  
 Ion Ratio Lower Upper  
 43 100  
 58 178.0 29.8 44.8#



#62  
 4-Bromofluorobenzene  
 Concen: 41.716 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. 0.00 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Tgt Ion: 95 Resp: 77030  
 Ion Ratio Lower Upper  
 95 100  
 174 74.7 0.0 147.8  
 176 71.4 0.0 140.8

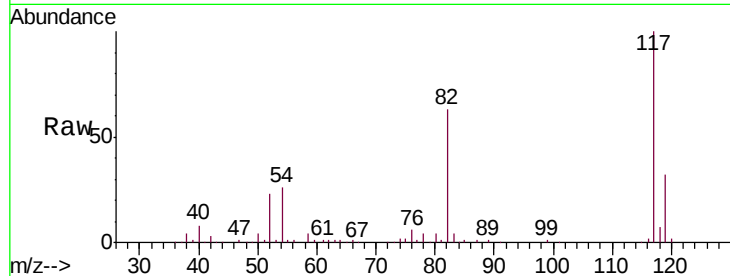




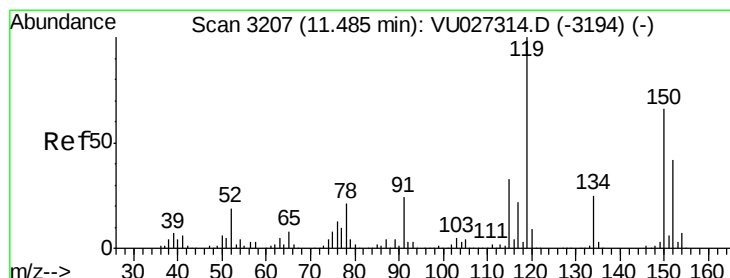
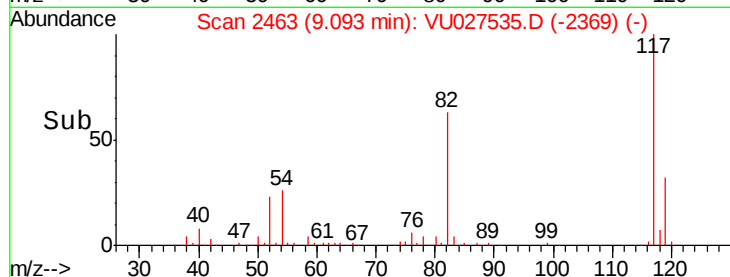
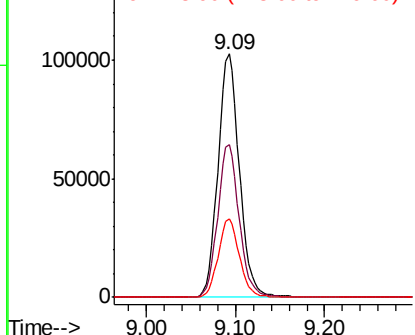
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Instrument :  
MSVOA\_U  
ClientSampleId :  
FB-09-27-18

Tgt Ion:117 Resp: 170560  
Ion Ratio Lower Upper  
117 100  
82 62.7 49.2 73.8  
119 32.0 25.7 38.5

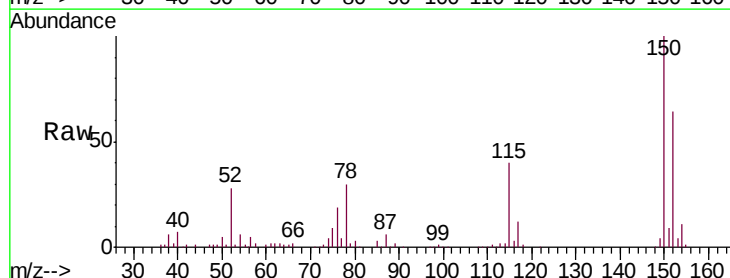


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V

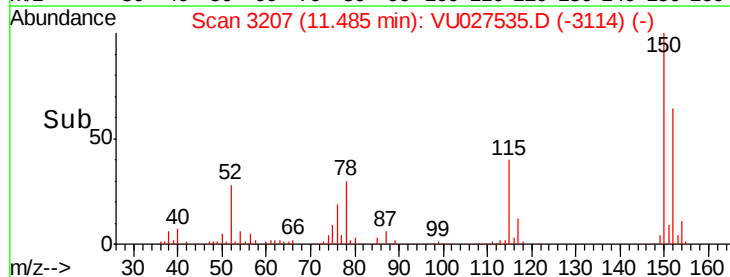
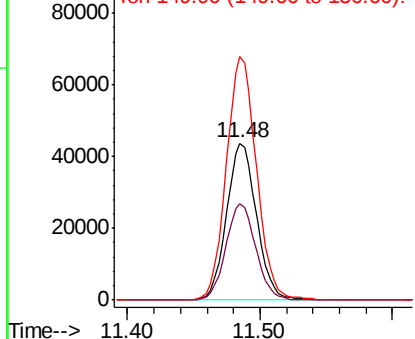


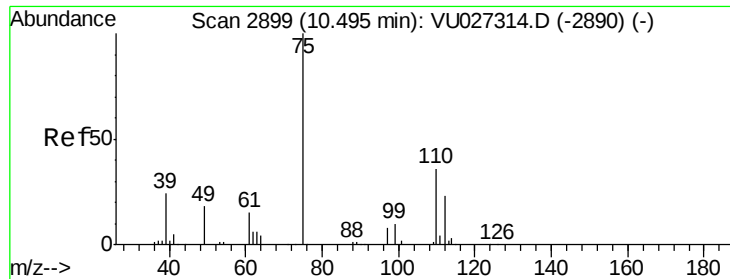
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU027535.D  
Acq: 09 Oct 2018 20:45

Tgt Ion:152 Resp: 68657  
Ion Ratio Lower Upper  
152 100  
115 61.6 43.4 130.2  
150 156.0 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

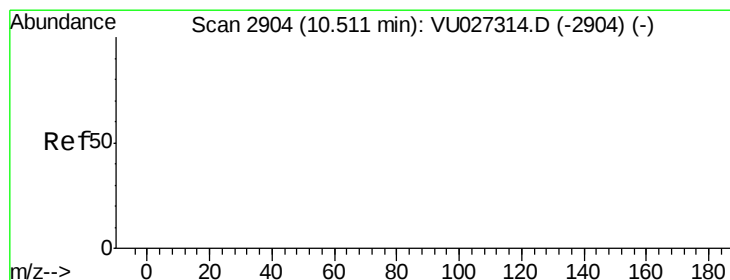
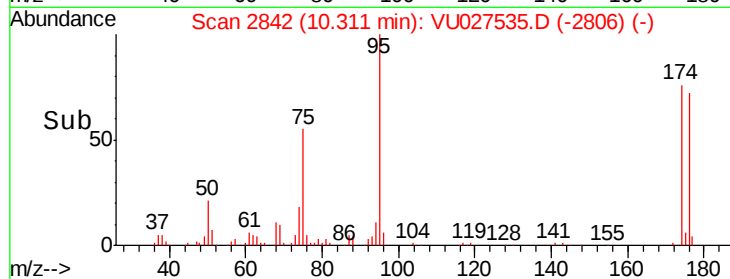
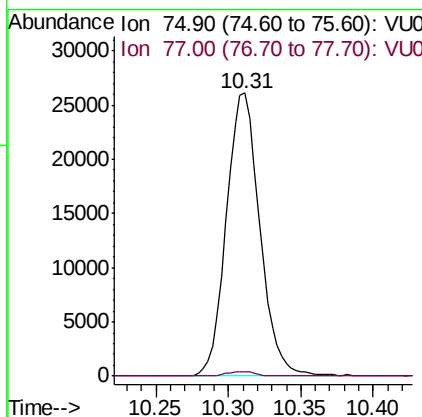
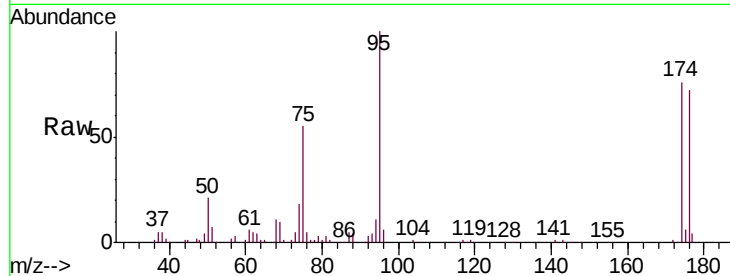




#76  
 1,2,3-Trichloropropane  
 Concen: 23.511 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. -0.18 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FB-09-27-18

Tgt Ion: 75 Resp: 41844  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 20.3 60.9#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 61.531 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. -0.20 min  
 Lab File: VU027535.D  
 Acq: 09 Oct 2018 20:45

Tgt Ion: 75 Resp: 41844  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0  
 89 0.0 0.0 0.0

