

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028106.D
 Acq On : 13 Nov 2018 20:55
 Operator : MD/SY
 Sample : J5908-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:02:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	247231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	447394	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	404191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	165922	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	192908	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
35) Dibromofluoromethane	4.88	113	145796	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	7.57	98	575963	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	
62) 4-Bromofluorobenzene	10.31	95	192968	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	

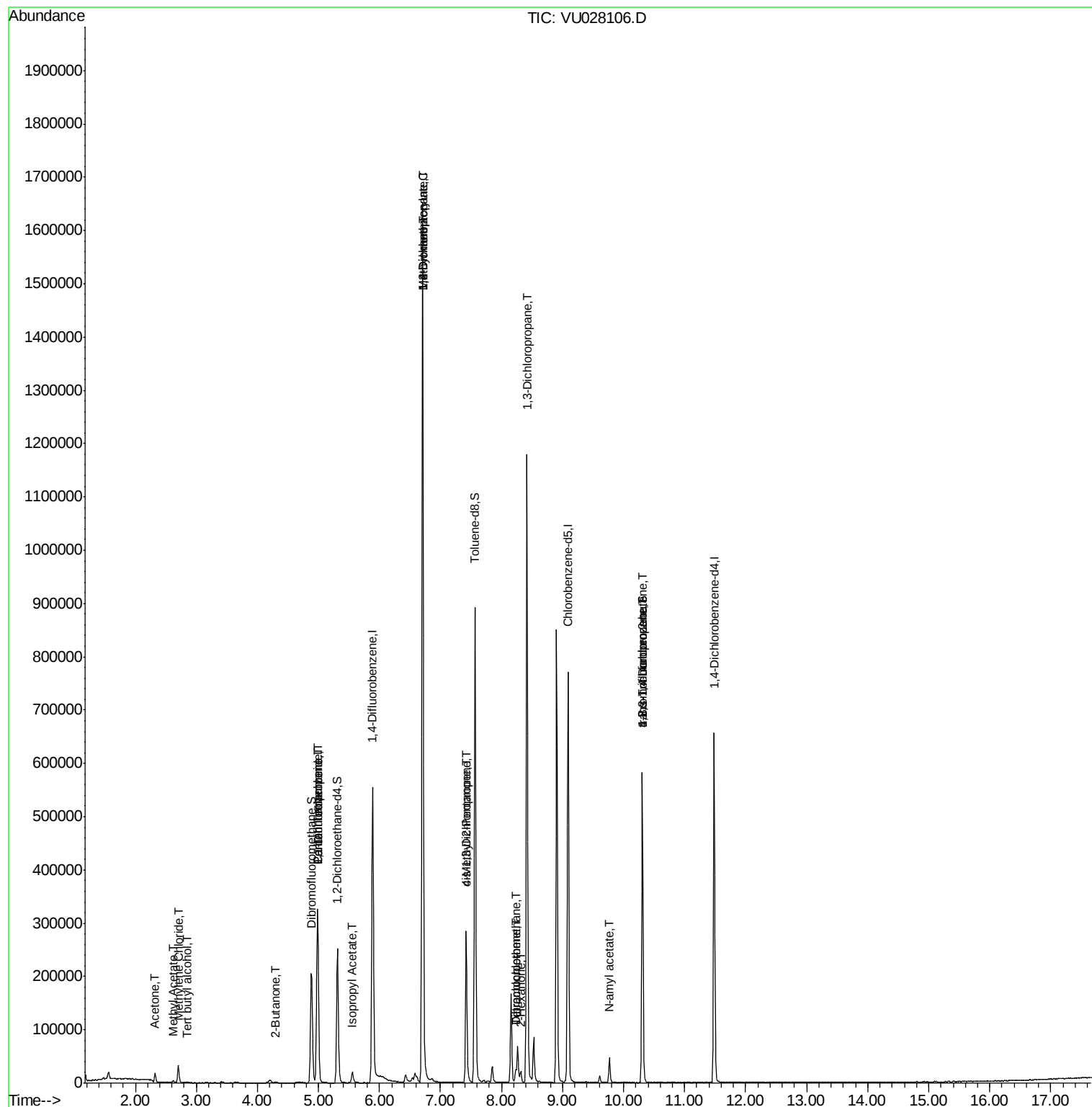
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	659	0.677	ug/l #	73
13) Acrolein	2.24	56	43	Below Cal	#	1
16) Acetone	2.32	43	17945	7.869	ug/l	100
18) Methyl Acetate	2.62	43	5550	0.885	ug/l	93
20) Methylene Chloride	2.70	84	14167	4.255	ug/l	91
25) 2-Butanone	4.30	43	1717	0.473	ug/l	100
31) Cyclohexane	4.98	56	5332	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	20289	4.330	ug/l #	50
38) Carbon Tetrachloride	4.99	117	24874	5.990	ug/l #	16
43) Isopropyl Acetate	5.56	43	25040	2.328	ug/l	97
45) 1,2-Dichloropropane	6.70	63	1596	0.386	ug/l #	44
48) Methyl methacrylate	6.71	41	138936	26.358	ug/l #	46
49) 1,4-Dioxane	6.71	88	21	0.244	ug/l #	1
51) 4-Methyl-2-Pentanone	7.42	43	110071	15.323	ug/l #	48
54) cis-1,3-Dichloropropene	7.42	75	49543	8.781	ug/l #	56
57) 1,3-Dichloropropane	8.41	76	11273	1.806	ug/l #	43
59) 2-Hexanone	8.31	43	17597	3.167	ug/l #	26
60) Dibromochloromethane	8.23	129	701	0.216	ug/l #	10
64) Tetrachloroethene	8.23	164	757	0.289	ug/l #	82
74) N-amyl acetate	9.77	43	15257	1.963	ug/l #	56
76) 1,2,3-Trichloropropane	10.31	75	97104	21.396	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	97104	53.403	ug/l #	100
95) Naphthalene	13.77	128	759	Below Cal	#	69

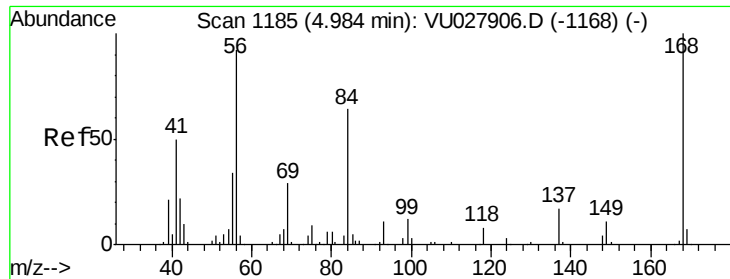
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU111318\
Data File : VU028106.D
Acq On : 13 Nov 2018 20:55
Operator : MD/SY
Sample : J5908-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Nov 14 07:02:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
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: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :

MSVOA_U

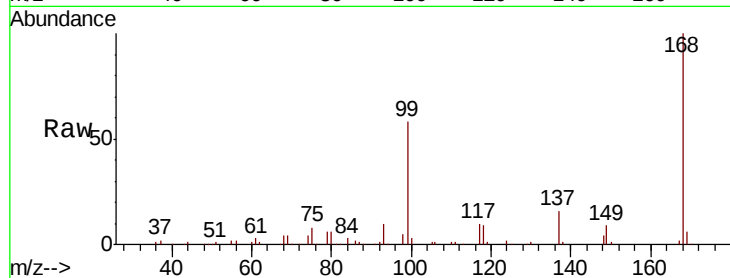
ClientSampled :

Tot Ion:168 Resp: 247231

Ion Ratio Lower Upper

168 100

99 58.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028106.D (-1092) (-)

4.99

120000

100000

80000

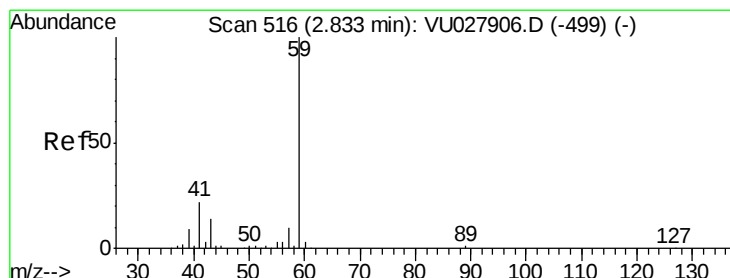
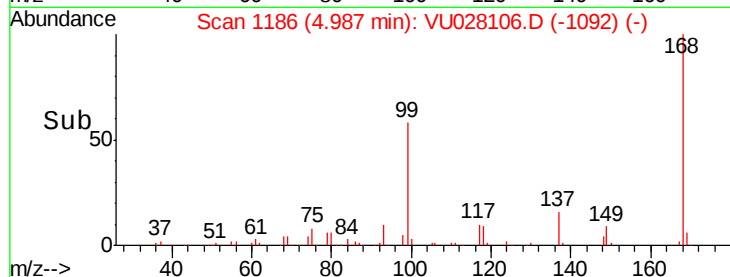
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.677 ug/l

RT: 2.83 min Scan# 516

Delta R.T. -0.00 min

Lab File: VU028106.D

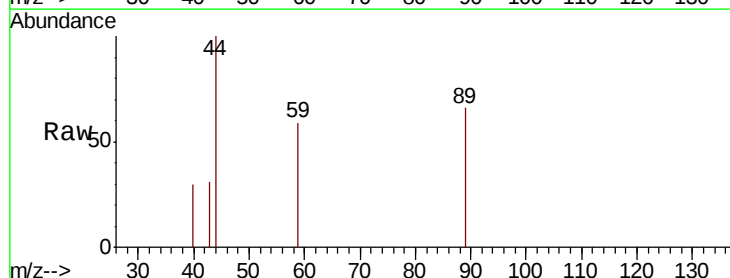
Acq: 13 Nov 2018 20:55

Tgt Ion: 59 Resp: 659

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU028106.D (-423) (-)

2.83

500

400

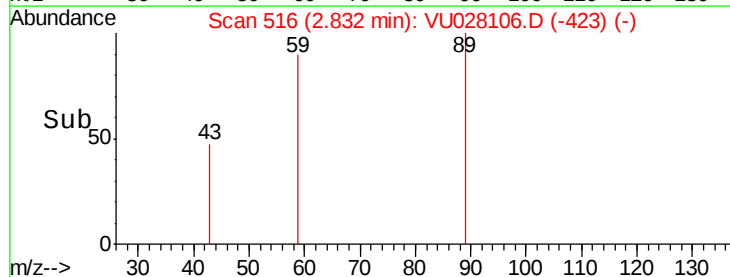
300

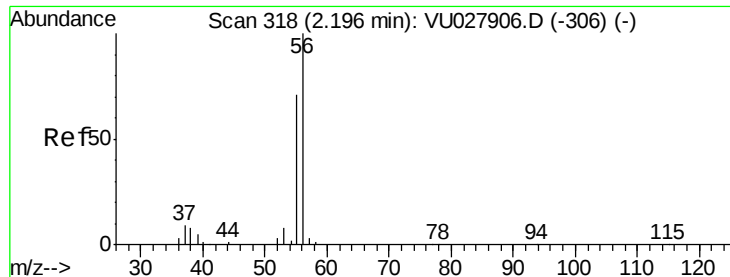
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.24 min Scan# 333

Delta R.T. 0.05 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

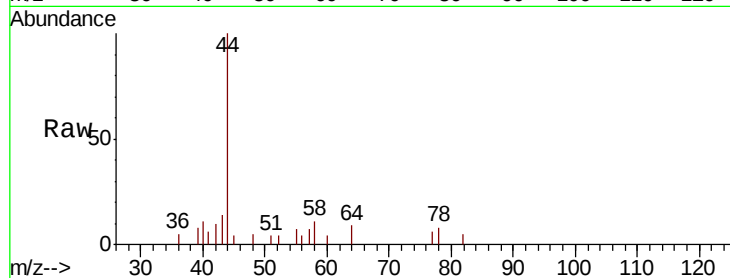
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 43

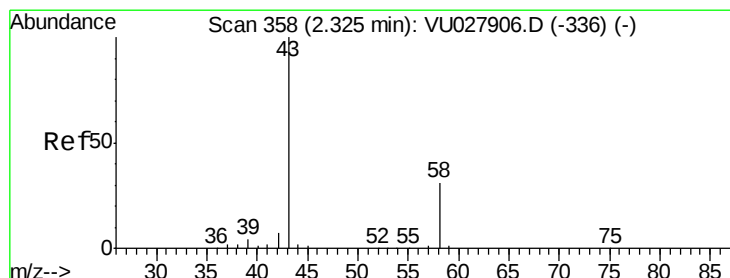
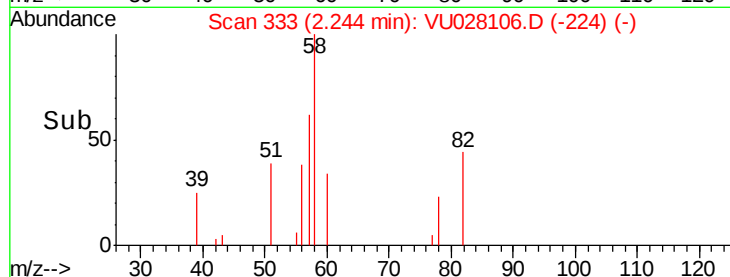
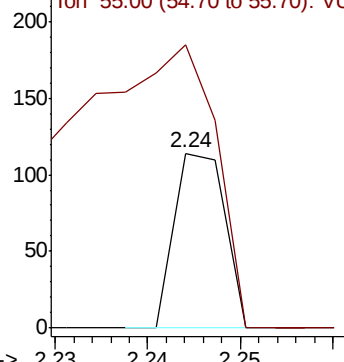
Ion Ratio Lower Upper

56 100

55 416.3 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 7.869 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028106.D

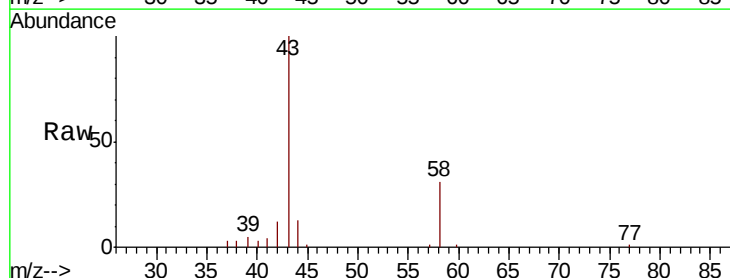
Acq: 13 Nov 2018 20:55

Tgt Ion: 43 Resp: 17945

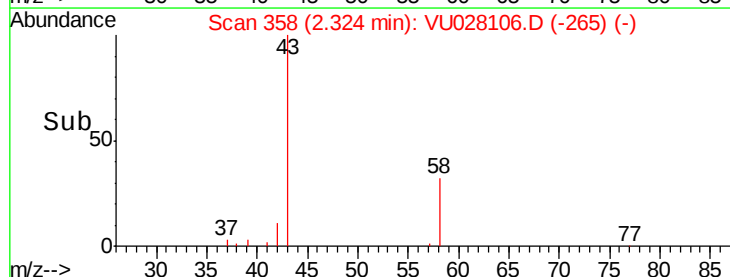
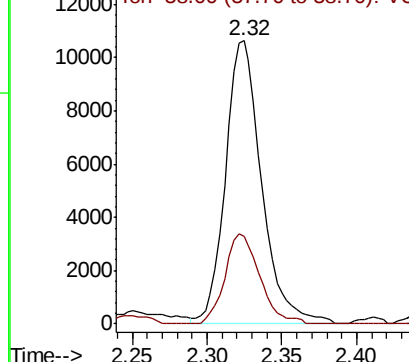
Ion Ratio Lower Upper

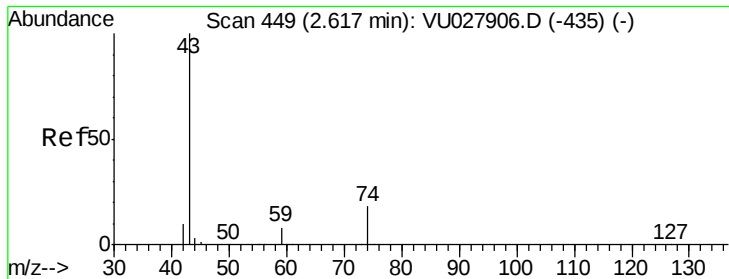
43 100

58 30.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

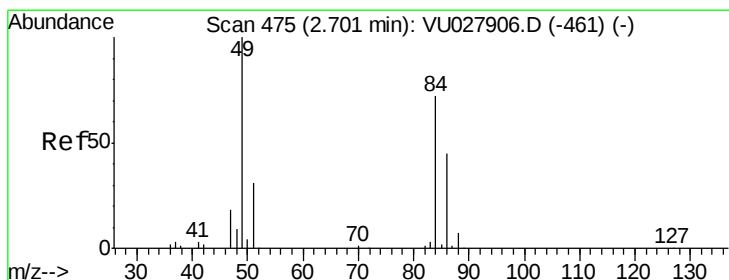
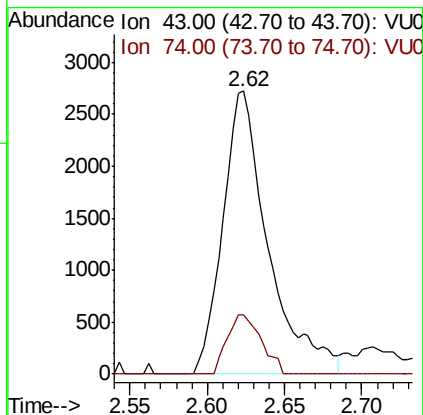
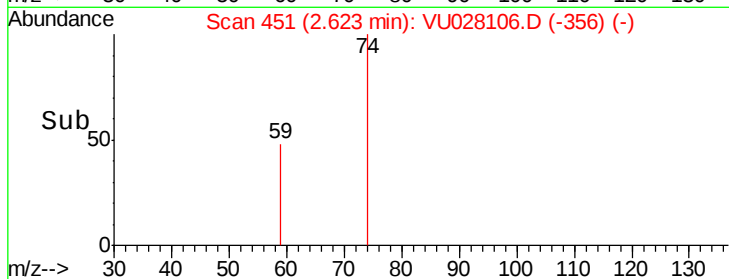
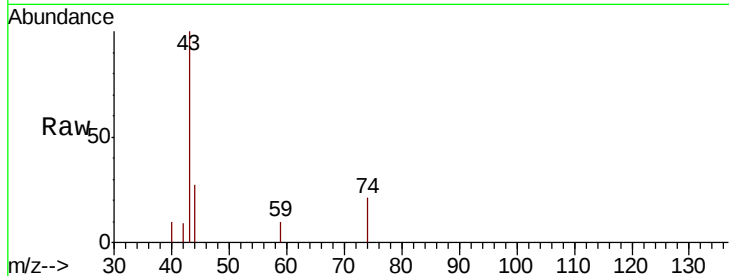




#18
Methyl Acetate
Concen: 0.885 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

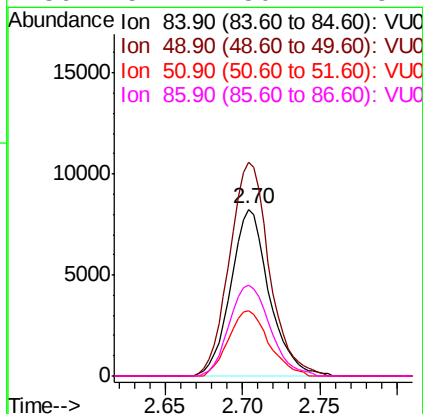
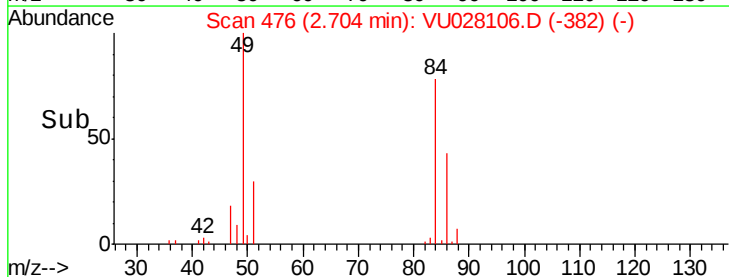
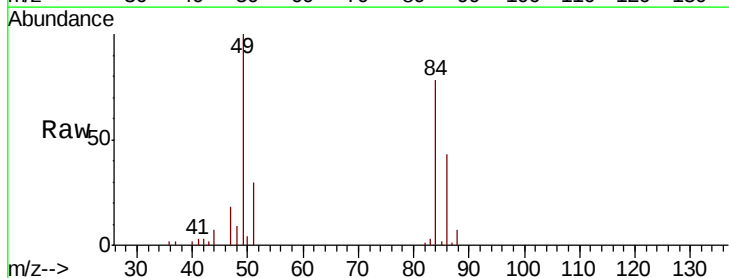
Instrument :
MSVOA_U
ClientSampled :

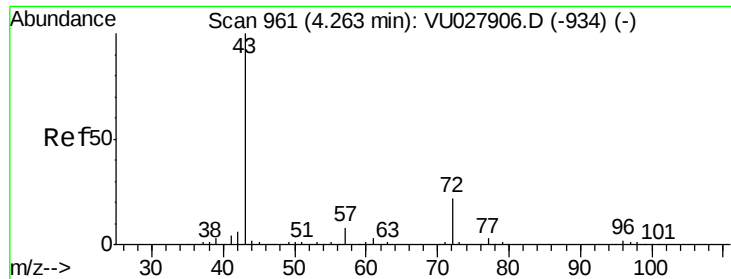
Tot Ion: 43 Resp: 5550
Ion Ratio Lower Upper
43 100
74 15.7 14.9 22.3



#20
Methylene Chloride
Concen: 4.255 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Tgt Ion: 84 Resp: 14167
Ion Ratio Lower Upper
84 100
49 127.9 111.6 167.4
51 38.7 34.8 52.2
86 54.4 50.1 75.1

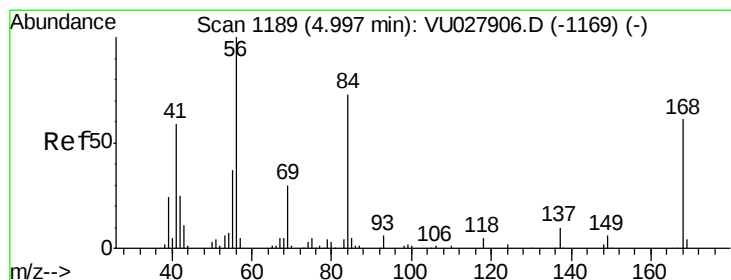
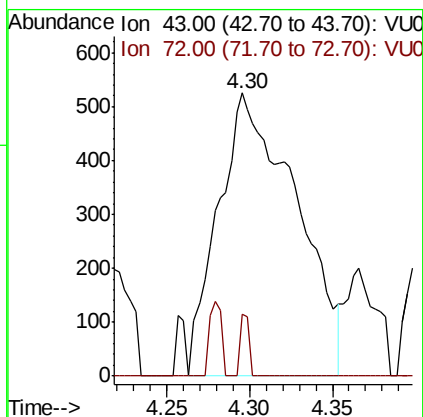
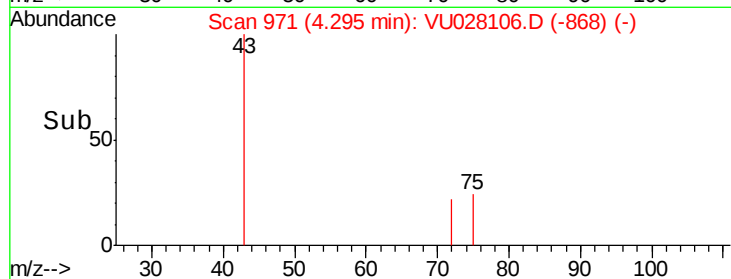
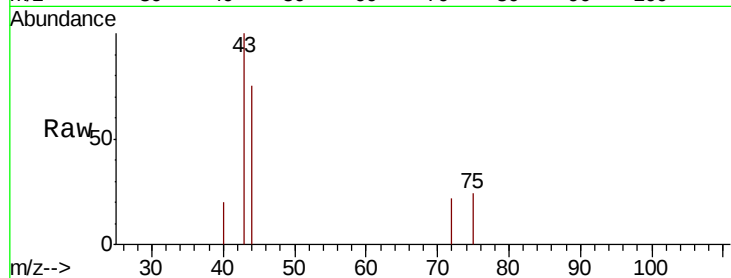




#25
 2-Butanone
 Concen: 0.473 ug/l
 RT: 4.30 min Scan# 971
 Delta R.T. 0.03 min
 Lab File: VU028106.D
 Acq: 13 Nov 2018 20:55

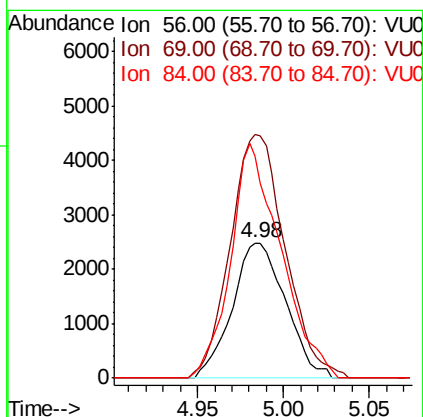
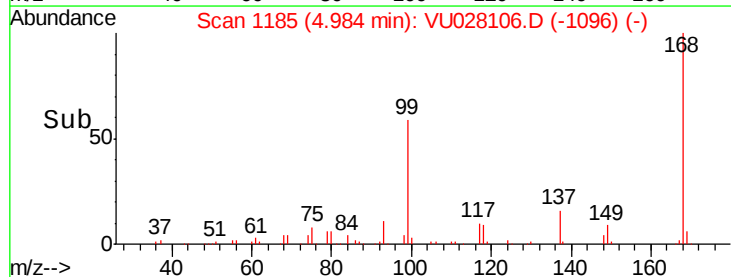
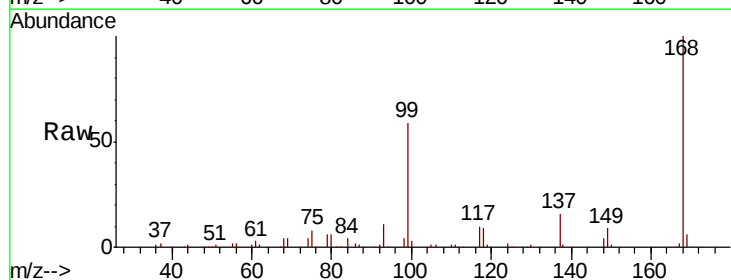
Instrument :
 MSVOA_U
 ClientSampled :

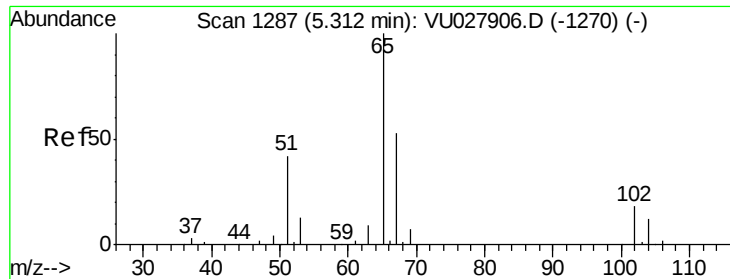
Tot Ion: 43 Resp: 1717
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.7 26.5



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VU028106.D
 Acq: 13 Nov 2018 20:55

Tgt Ion: 56 Resp: 5332
 Ion Ratio Lower Upper
 56 100
 69 179.9 23.7 35.5#
 84 163.9 58.2 87.4#





#33

1,2-Dichloroethane-d4

Concen: 52.482 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :

MSVOA_U

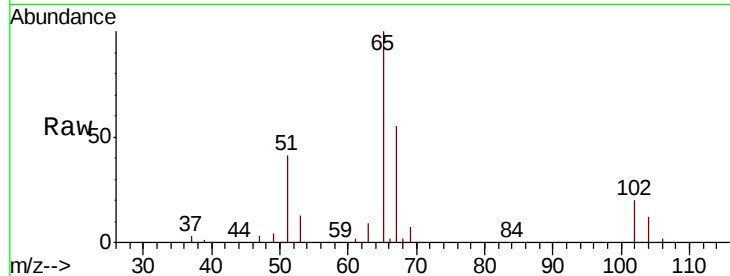
ClientSampled :

Tot Ion: 65 Resp: 192908

Ion Ratio Lower Upper

65 100

67 54.4 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

5.31

80000

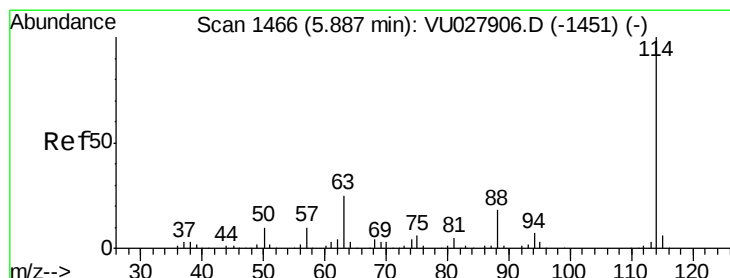
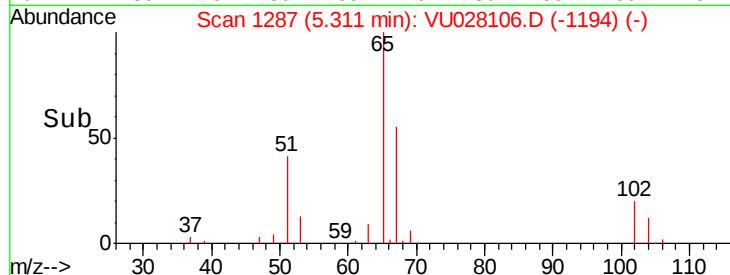
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1466

Delta R.T. -0.00 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

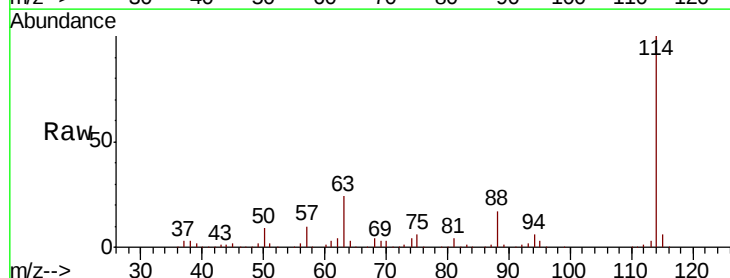
Tgt Ion: 114 Resp: 447394

Ion Ratio Lower Upper

114 100

63 23.9 0.0 50.8

88 16.6 0.0 35.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0

300000

250000

200000

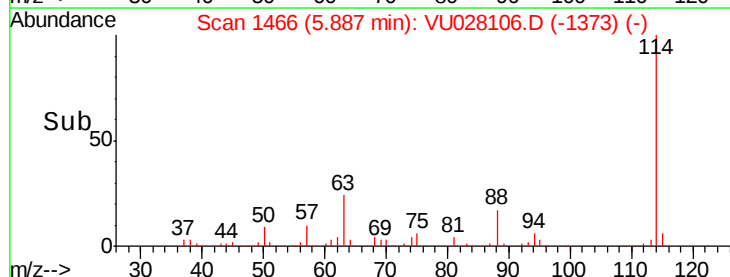
150000

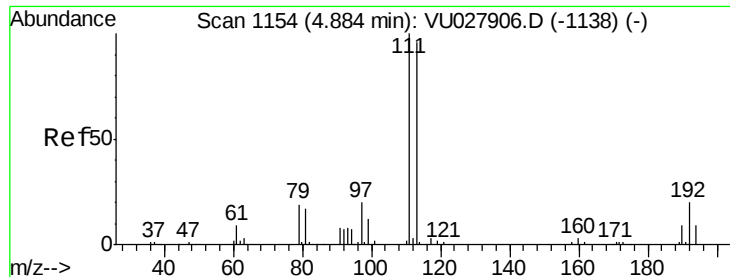
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 51.684 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :
MSVOA_U
ClientSampleId :

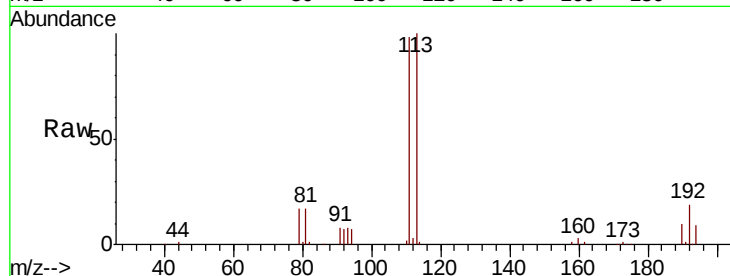
Tot Ion:113 Resp: 145796

Ion Ratio Lower Upper

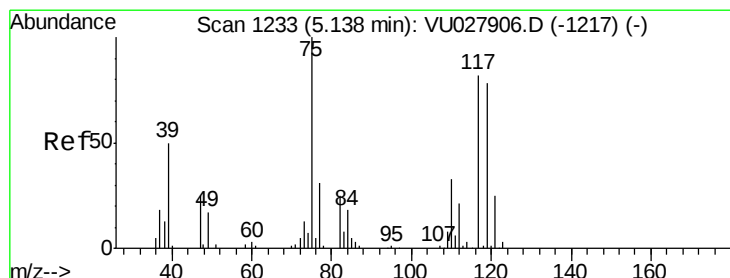
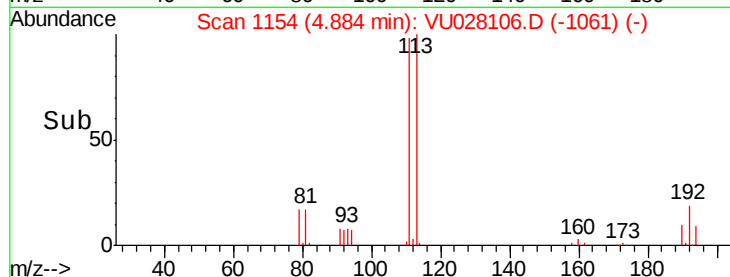
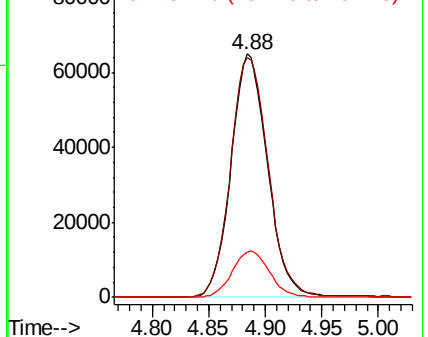
113 100

111 101.5 83.0 124.6

192 19.5 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.330 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

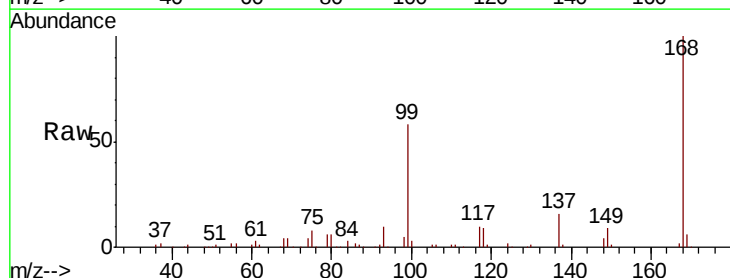
Tgt Ion: 75 Resp: 20289

Ion Ratio Lower Upper

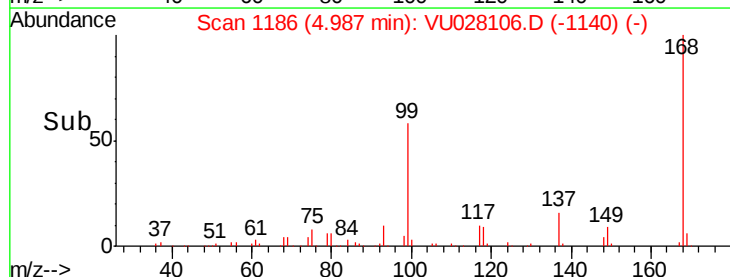
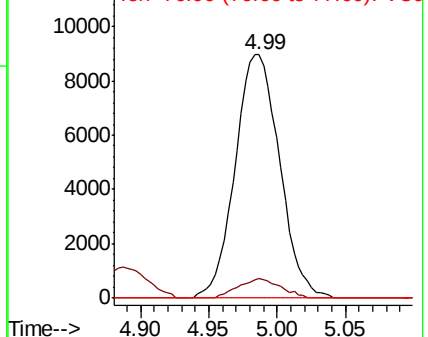
75 100

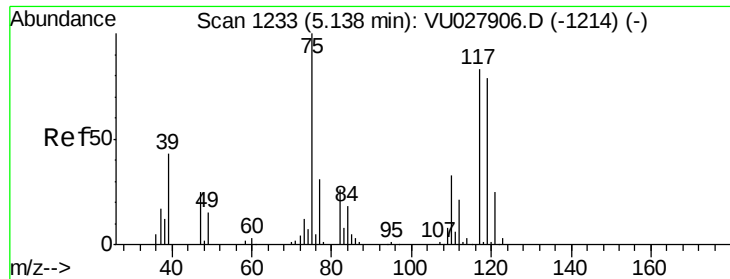
110 7.7 16.5 49.5#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0

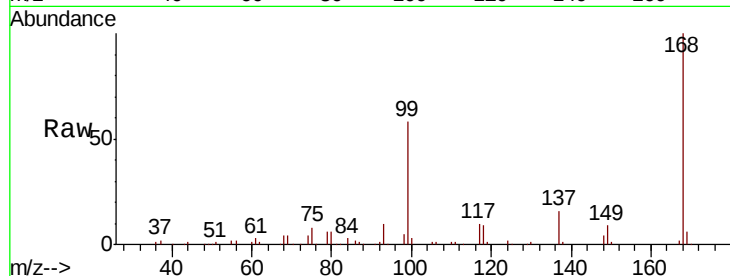




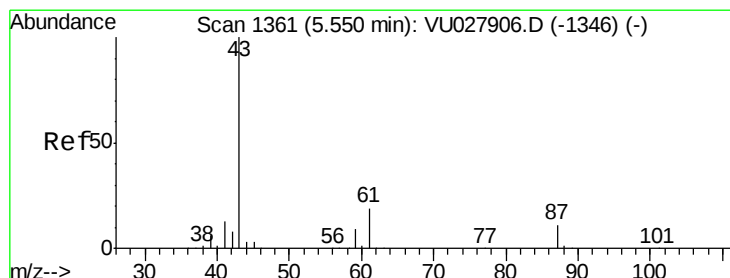
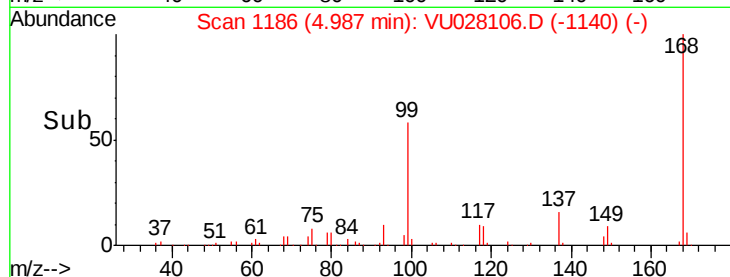
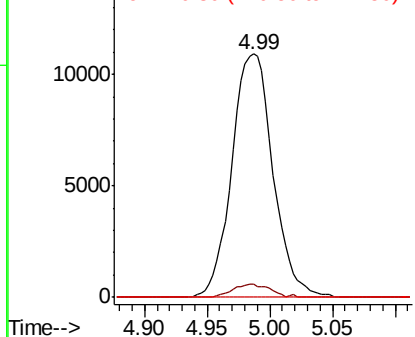
#38
Carbon Tetrachloride
Concen: 5.990 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 24874
Ion Ratio Lower Upper
117 100
119 5.3 76.0 114.0#
121 0.0 24.5 36.7#

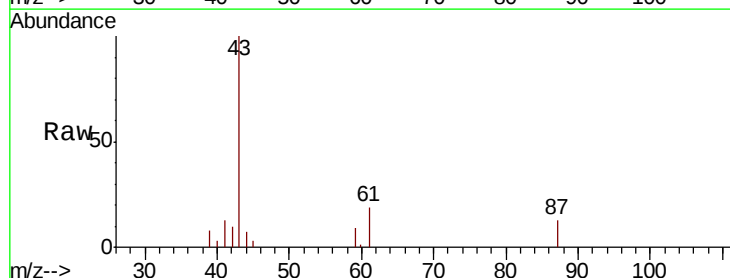


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

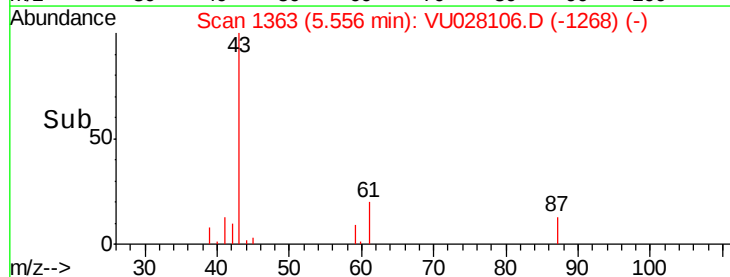
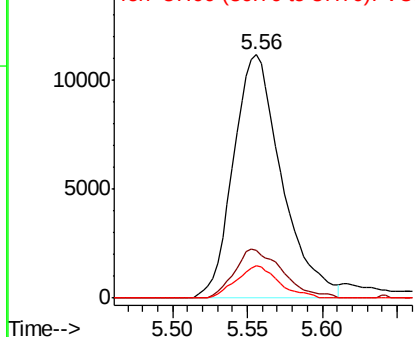


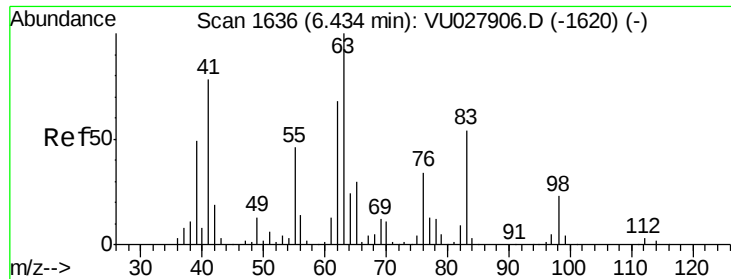
#43
Isopropyl Acetate
Concen: 2.328 ug/l
RT: 5.56 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Tgt Ion: 43 Resp: 25040
Ion Ratio Lower Upper
43 100
61 20.0 15.0 22.4
87 11.7 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.386 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :

MSVOA_U

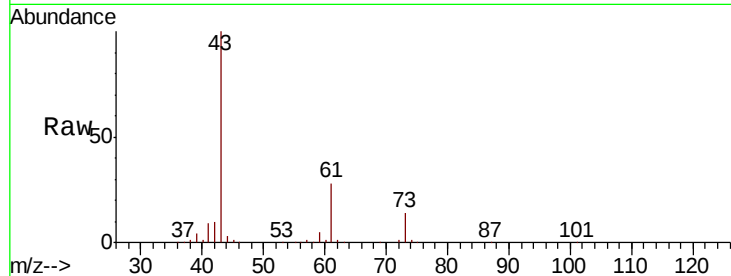
ClientSampled :

Tot Ion: 63 Resp: 1596

Ion Ratio Lower Upper

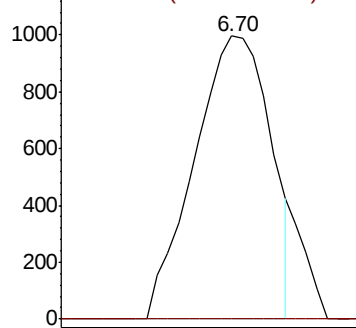
63 100

65 0.0 24.4 36.6#

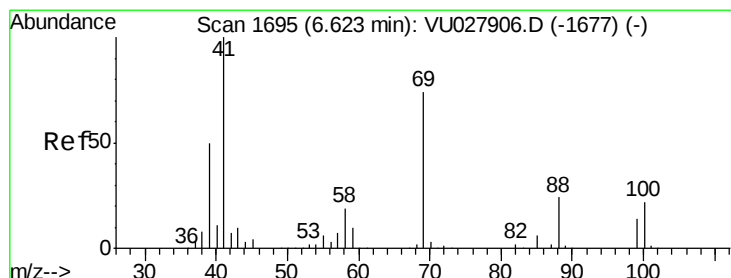
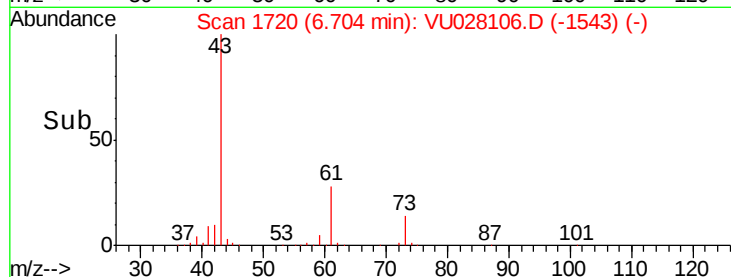


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



Time-->



#48

Methyl methacrylate

Concen: 26.358 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

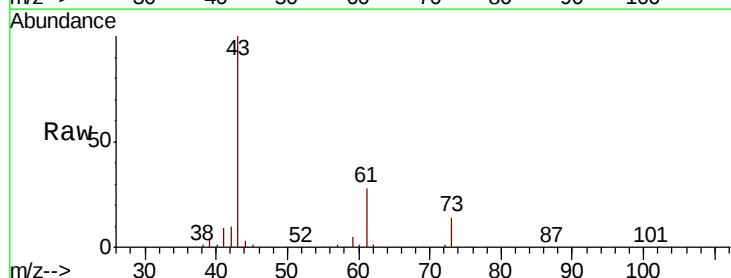
Tgt Ion: 41 Resp: 138936

Ion Ratio Lower Upper

41 100

69 0.1 59.8 89.8#

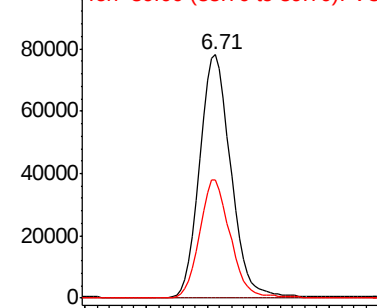
39 48.1 40.0 60.0



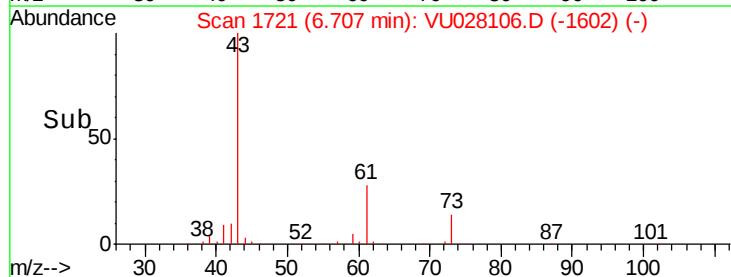
Abundance Ion 41.00 (40.70 to 41.70): VU0

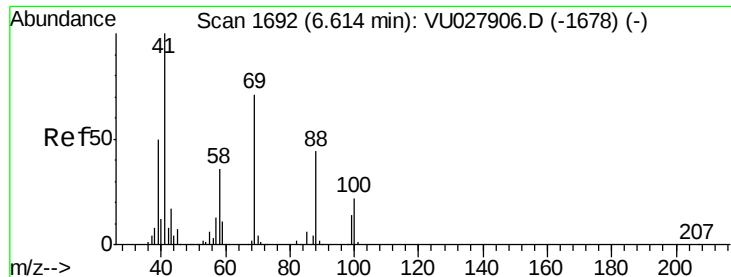
Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



Time-->





#49

1,4-Dioxane

Concen: 0.244 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.10 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :

MSVOA_U

ClientSampleId :

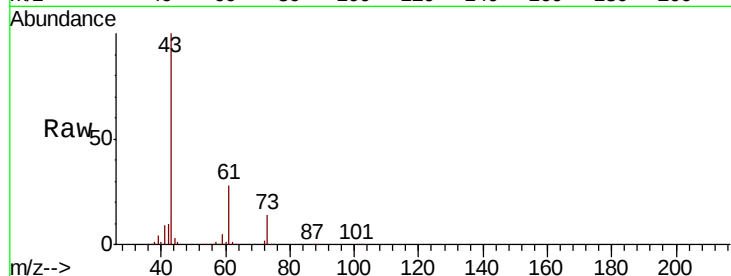
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 7721533.3 30.5 45.7#

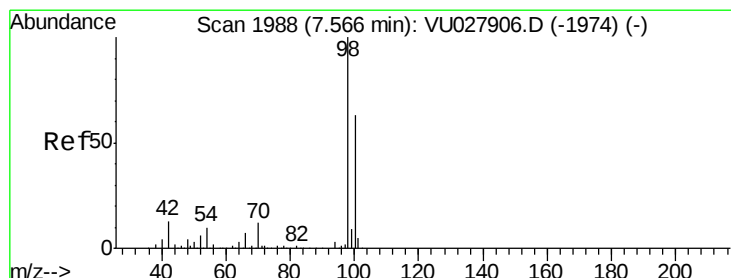
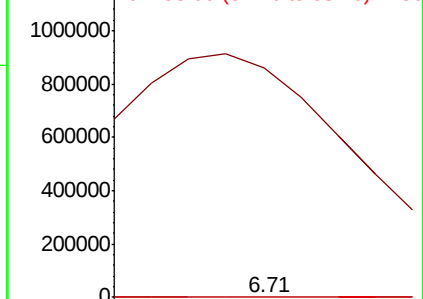
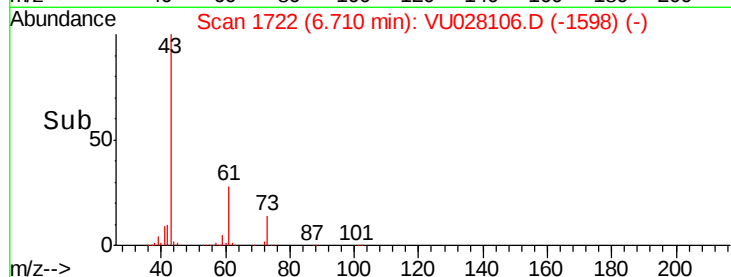
58 28304.8 67.1 100.7#



Abundance Ion 88.00 (87.70 to 88.70): VU028106.D (-1598) (-)

Ion 43.00 (42.70 to 43.70): VU028106.D (-1598) (-)

Ion 58.00 (57.70 to 58.70): VU028106.D (-1598) (-)



#50

Toluene-d8

Concen: 52.856 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028106.D

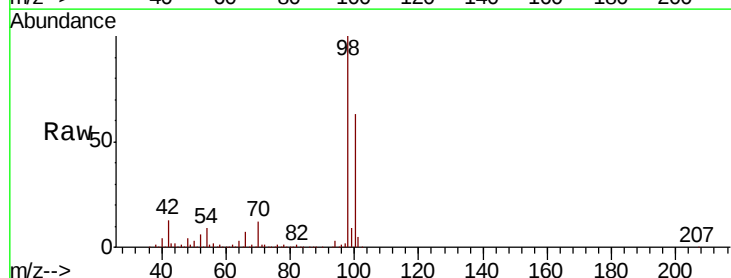
Acq: 13 Nov 2018 20:55

Tgt Ion: 98 Resp: 575963

Ion Ratio Lower Upper

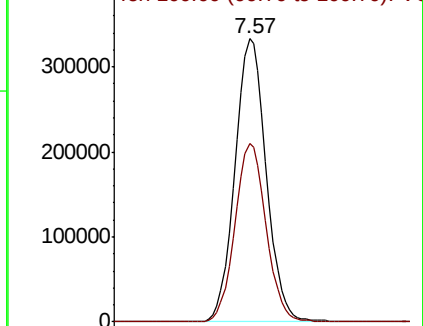
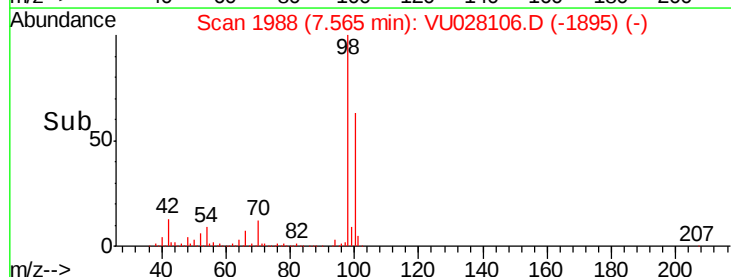
98 100

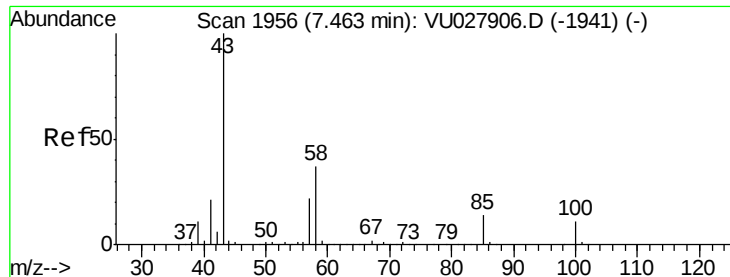
100 62.9 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU028106.D (-1895) (-)

Ion 100.00 (99.70 to 100.70): VU028106.D (-1895) (-)





#51

4-Methyl-2-Pentanone

Concen: 15.323 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. -0.04 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

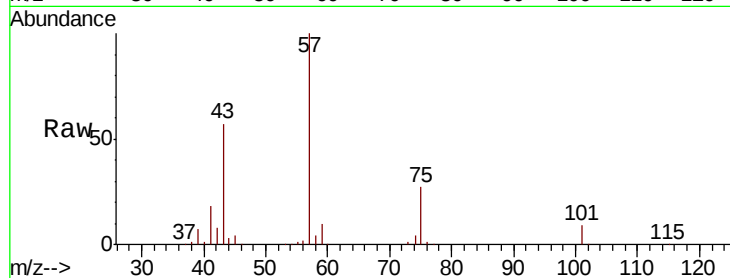
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 110071

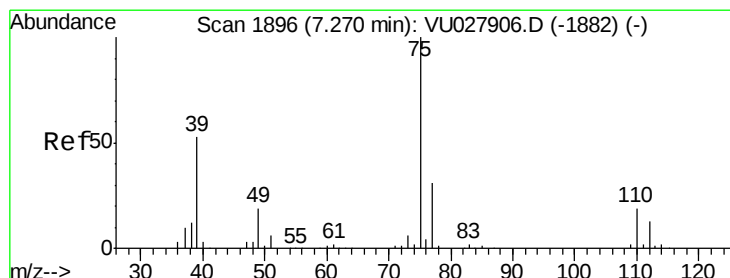
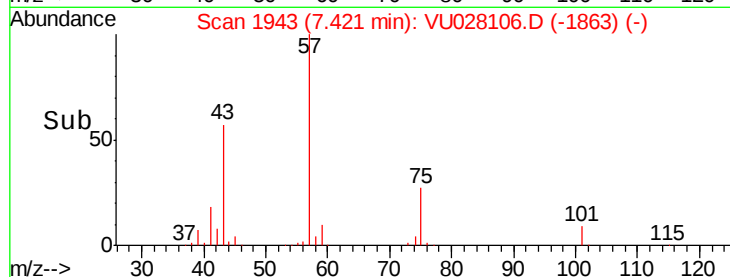
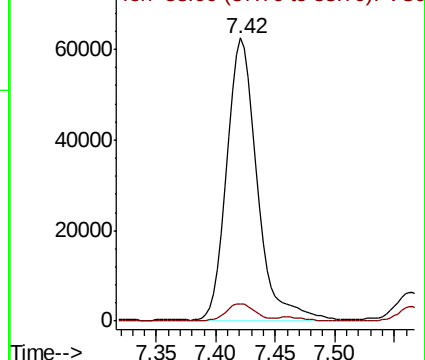
Ion Ratio Lower Upper

43 100

58 6.1 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 8.781 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

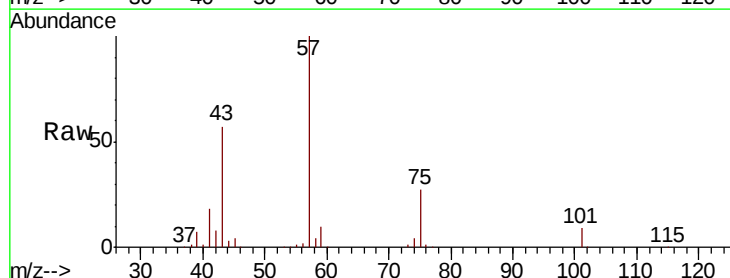
Tgt Ion: 75 Resp: 49543

Ion Ratio Lower Upper

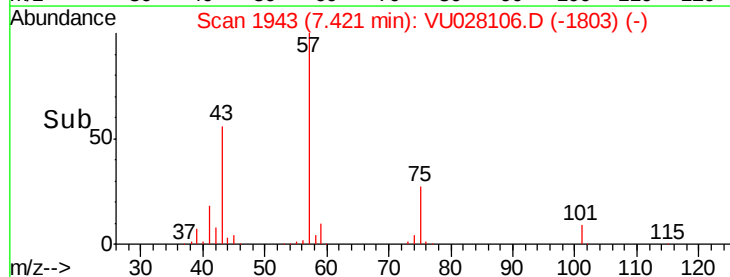
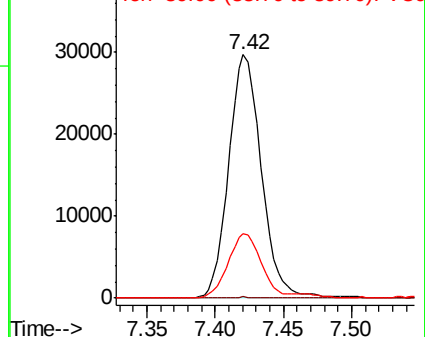
75 100

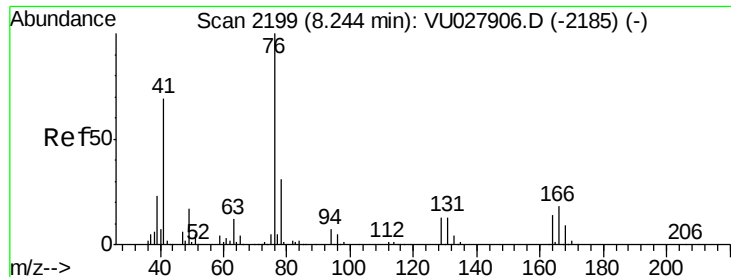
77 0.4 24.6 37.0#

39 26.6 42.6 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 76.90 (76.60 to 77.60): VU0
Ion 39.00 (38.70 to 39.70): VU0

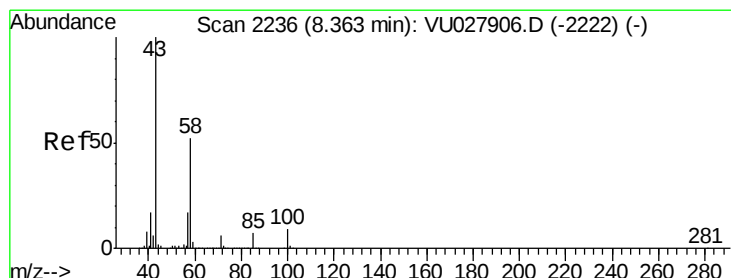
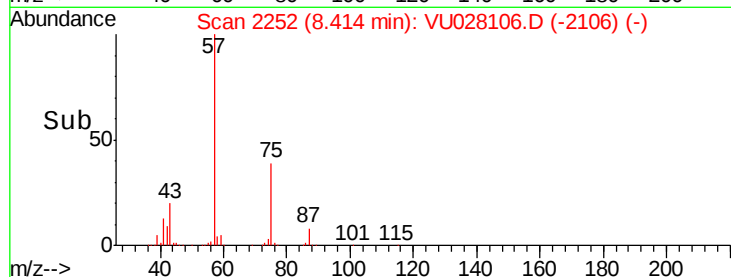
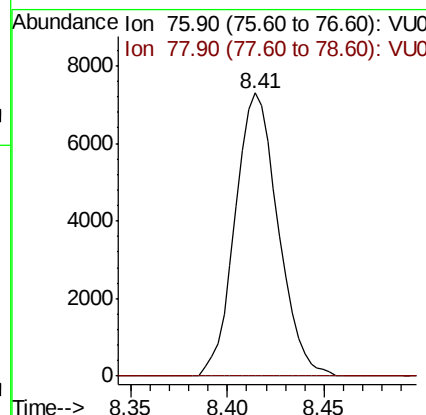
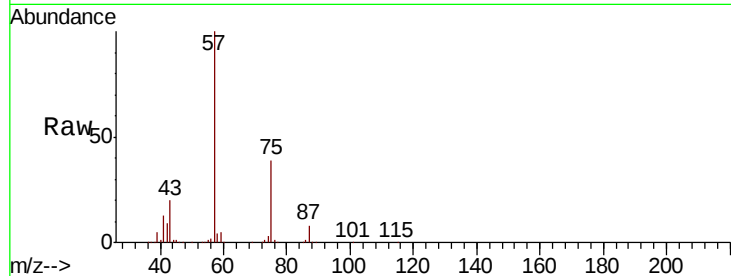




#57
 1,3-Dichloropropane
 Concen: 1.806 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028106.D
 Acq: 13 Nov 2018 20:55

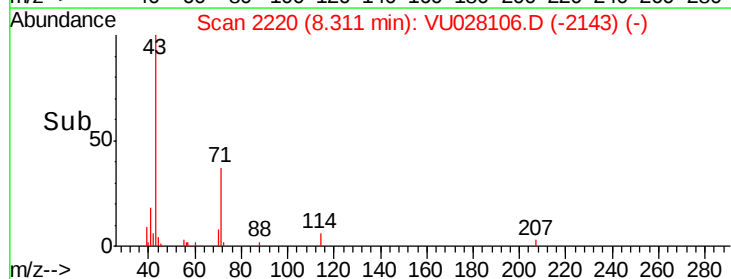
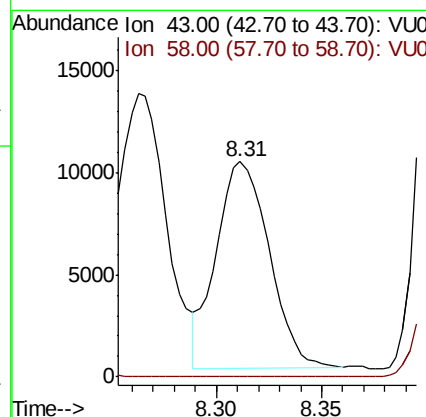
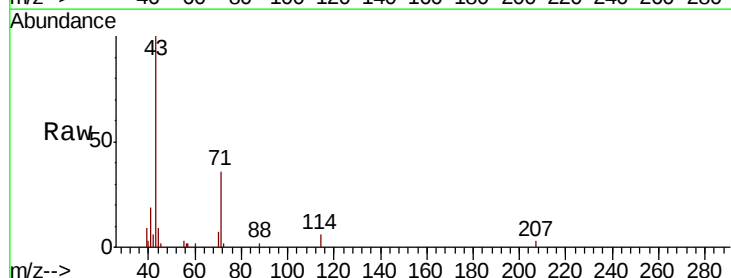
Instrument :
 MSVOA_U
 ClientSampleId :

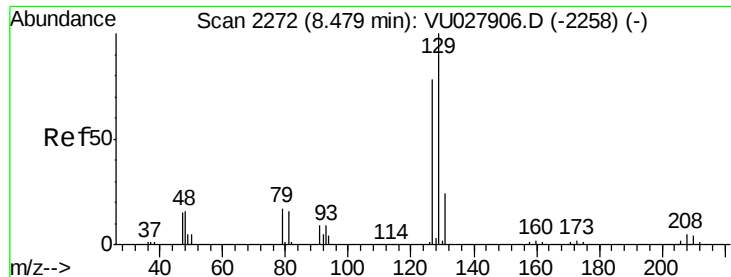
Tot Ion: 76 Resp: 11273
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#



#59
 2-Hexanone
 Concen: 3.167 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU028106.D
 Acq: 13 Nov 2018 20:55

Tgt Ion: 43 Resp: 17597
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.8 77.3#





#60

Dibromochloromethane

Concen: 0.216 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

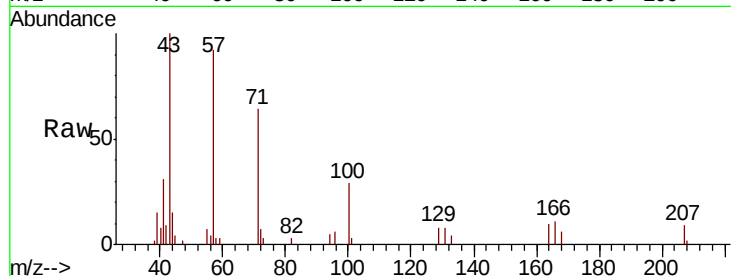
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:129 Resp: 701

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.23

400

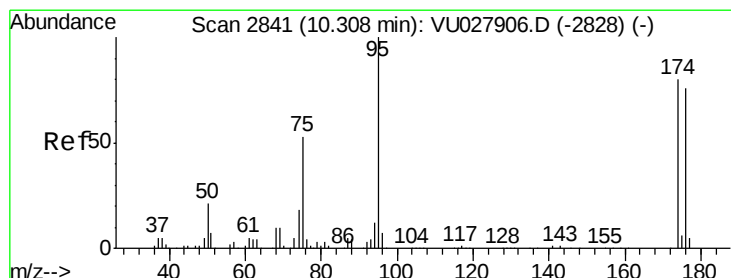
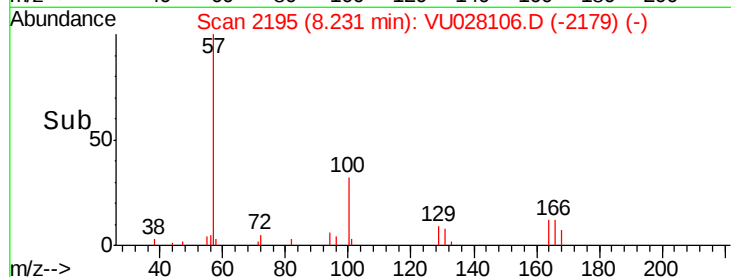
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.011 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

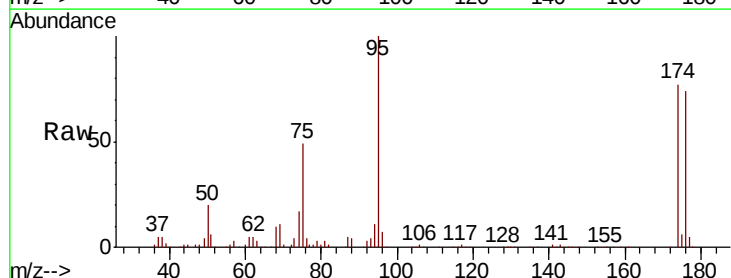
Tgt Ion: 95 Resp: 192968

Ion Ratio Lower Upper

95 100

174 76.5 0.0 156.4

176 74.6 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

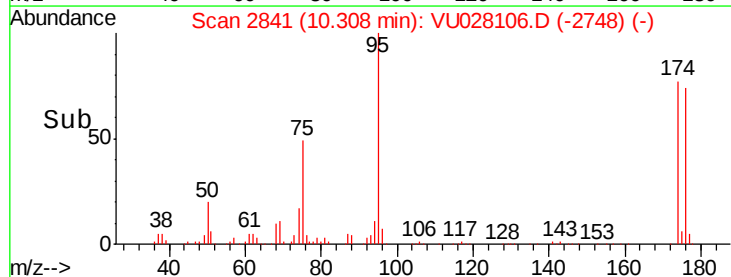
150000

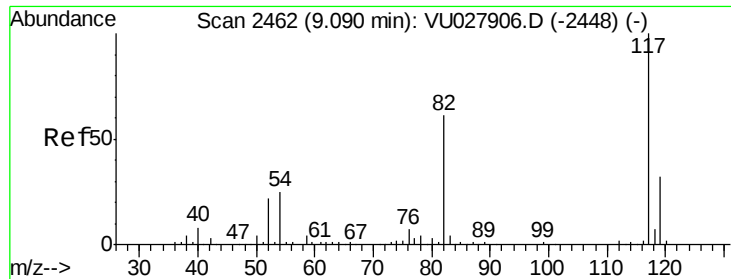
100000

50000

0

Time-->

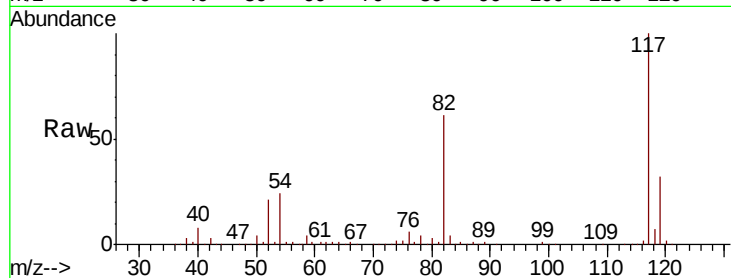




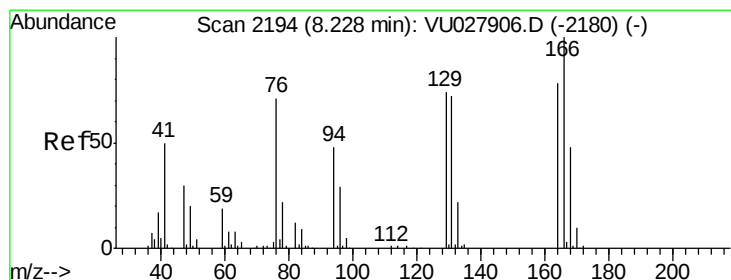
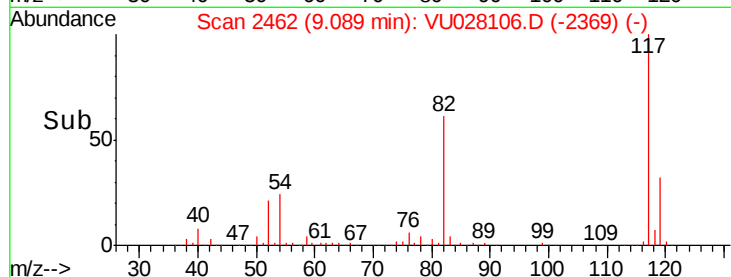
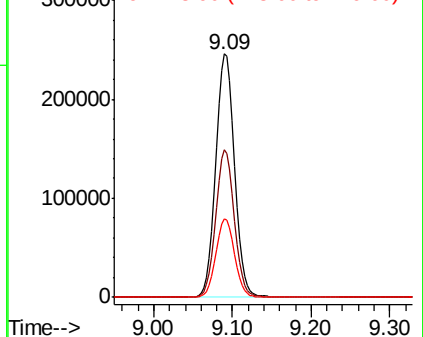
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 404191
Ion Ratio Lower Upper
117 100
82 60.8 48.6 73.0
119 32.2 25.8 38.8

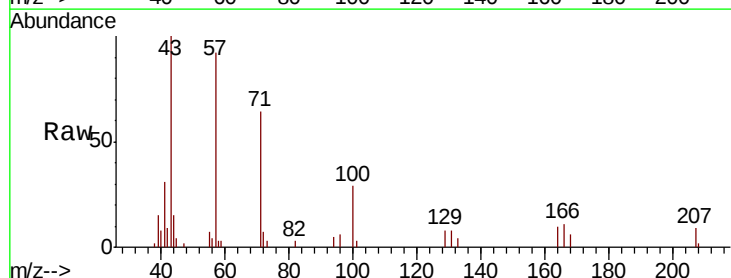


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

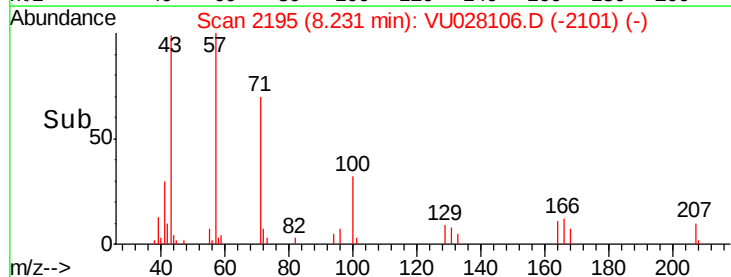
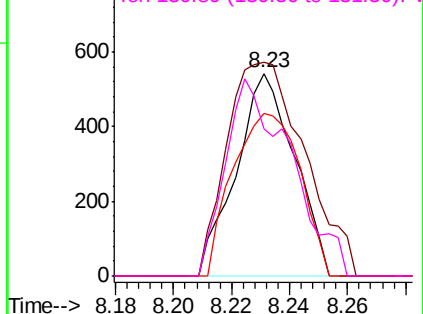


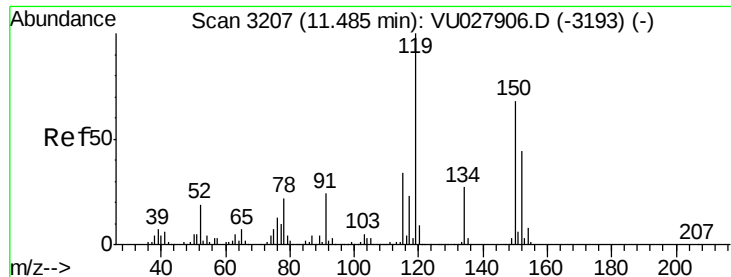
#64
Tetrachloroethene
Concen: 0.289 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Tgt Ion:164 Resp: 757
Ion Ratio Lower Upper
164 100
166 105.3 102.1 153.1
129 80.5 75.9 113.9
131 72.4 73.0 109.6#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



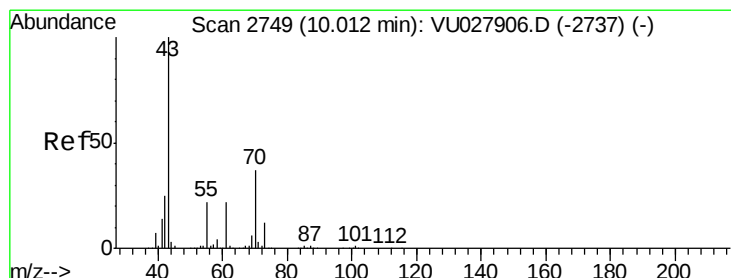
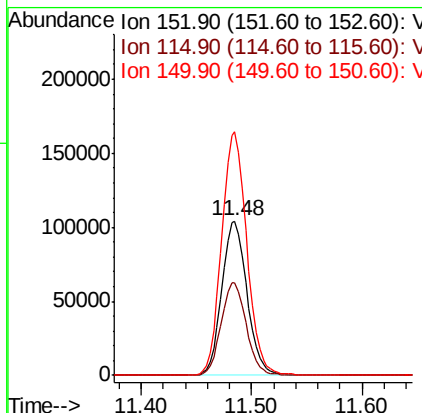
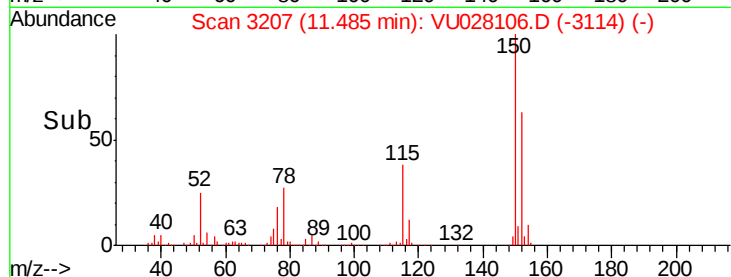
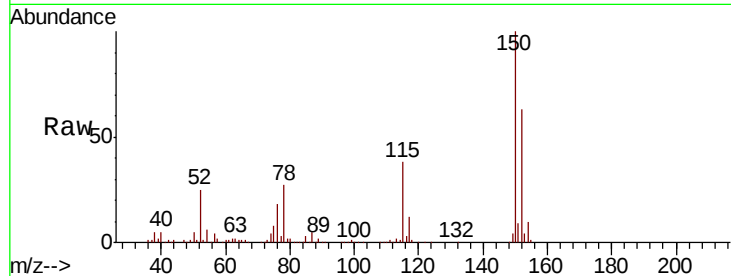


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Instrument :
MSVOA_U
ClientSampled :

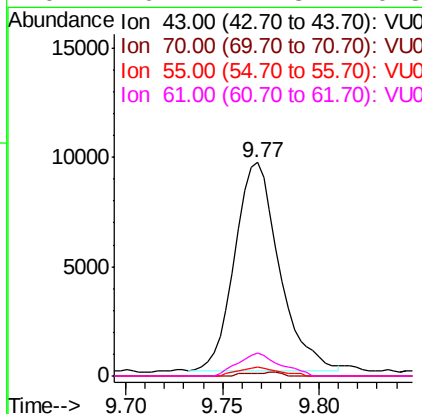
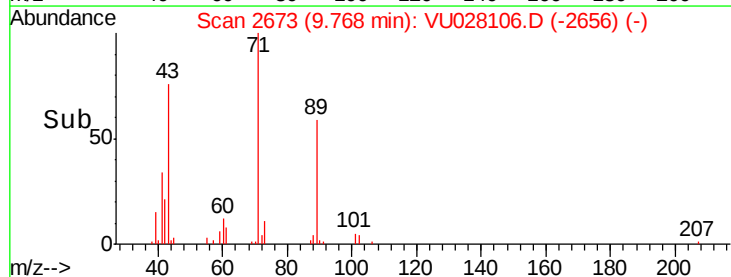
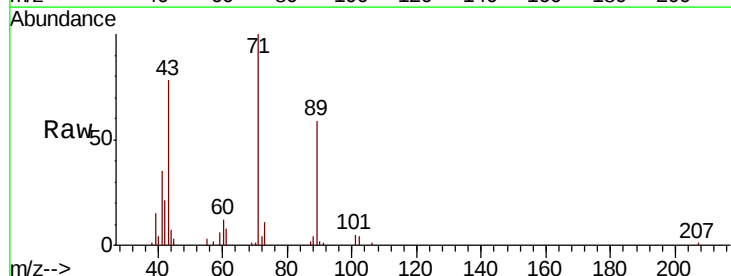
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.6	43.0	129.0
150	156.6	0.0	349.4

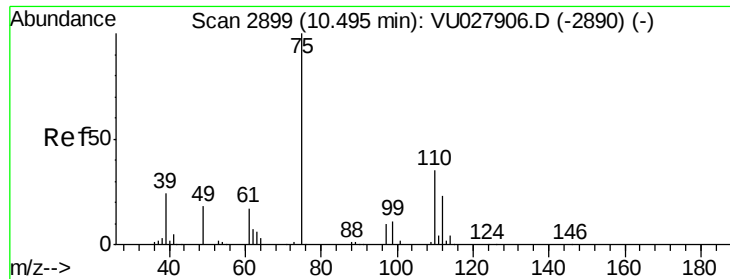


#74

N-ethyl acetate
Concen: 1.963 ug/l
RT: 9.77 min Scan# 2673
Delta R.T. -0.24 min
Lab File: VU028106.D
Acq: 13 Nov 2018 20:55

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.4	29.2	43.8#
55	3.7	17.8	26.6#
61	10.1	17.8	26.8#





#76

1,2,3-Trichloropropane

Concen: 21.396 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

Instrument :

MSVOA_U

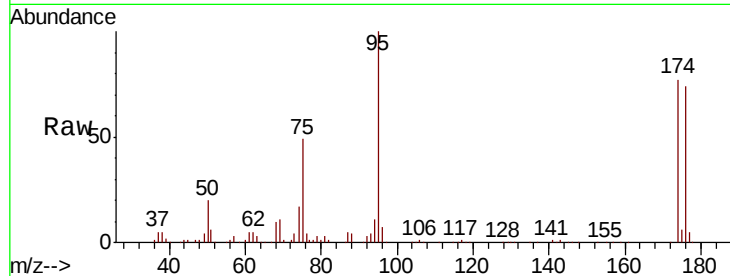
ClientSampleId :

Tot Ion: 75 Resp: 97104

Ion Ratio Lower Upper

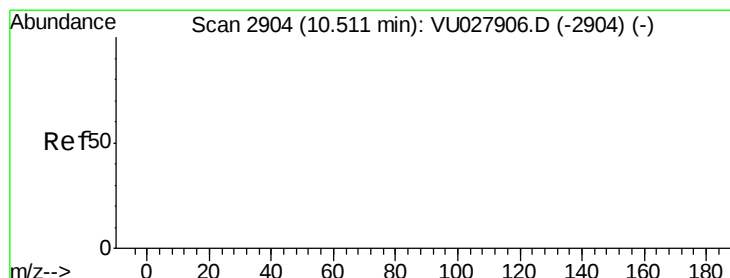
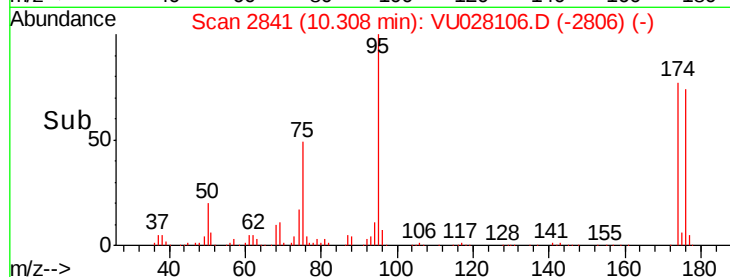
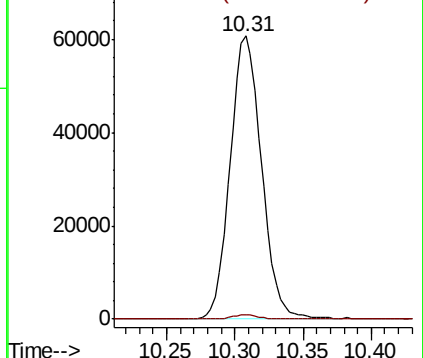
75 100

77 1.3 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 53.403 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028106.D

Acq: 13 Nov 2018 20:55

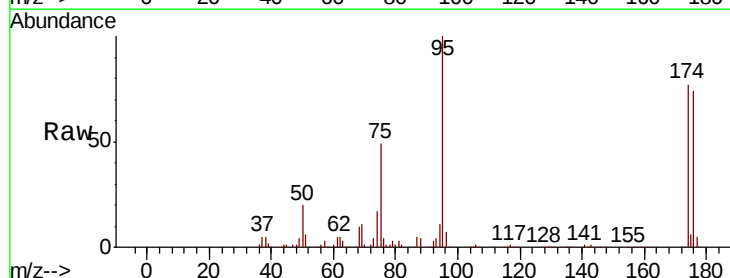
Tgt Ion: 75 Resp: 97104

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

