

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028102.D
 Acq On : 13 Nov 2018 19:19
 Operator : MD/SY
 Sample : J5910-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:01:43 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

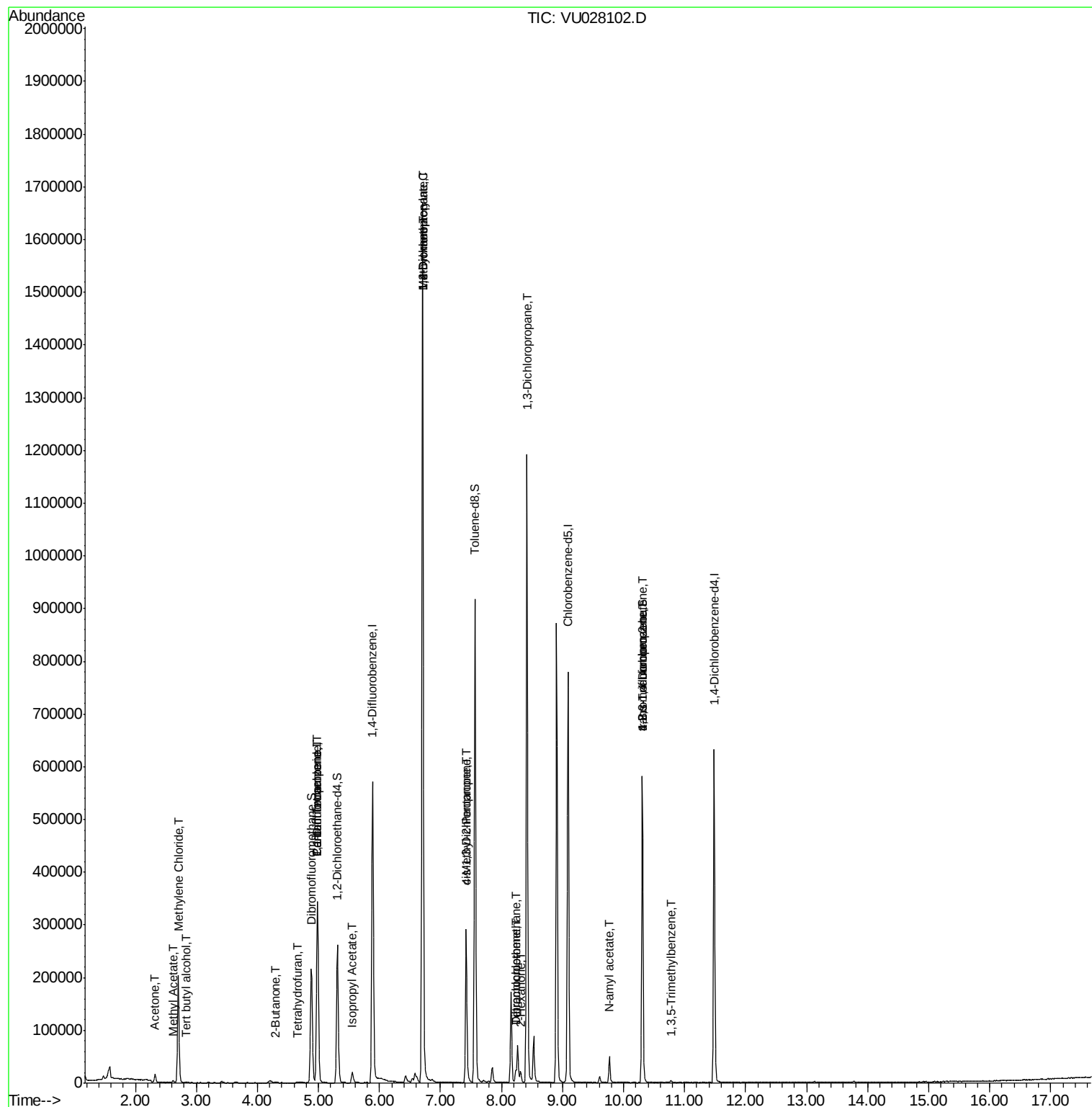
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	257443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	467172	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	406991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	159856	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	198559	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
35) Dibromofluoromethane	4.88	113	150910	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
50) Toluene-d8	7.57	98	598800	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
62) 4-Bromofluorobenzene	10.31	95	191036	45.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.04%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.84	59	1427	1.408	ug/l #	73
13) Acrolein	2.19	56	92	Below Cal	#	15
16) Acetone	2.32	43	16594	6.988	ug/l	95
18) Methyl Acetate	2.62	43	5513	0.844	ug/l	95
20) Methylene Chloride	2.70	84	88907	25.642	ug/l	95
25) 2-Butanone	4.29	43	809	0.214	ug/l	97
29) Tetrahydrofuran	4.66	42	847	0.336	ug/l #	51
31) Cyclohexane	4.98	56	5640	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	21524	4.399	ug/l #	45
38) Carbon Tetrachloride	4.99	117	26122	6.024	ug/l #	16
43) Isopropyl Acetate	5.55	43	25257	2.249	ug/l	98
45) 1,2-Dichloropropane	6.71	63	1908	0.442	ug/l #	44
48) Methyl methacrylate	6.70	41	140150	25.463	ug/l #	46
49) 1,4-Dioxane	6.70	88	164	1.826	ug/l #	1
51) 4-Methyl-2-Pentanone	7.42	43	110921	14.787	ug/l #	48
54) cis-1,3-Dichloropropene	7.42	75	51051	8.666	ug/l #	55
57) 1,3-Dichloropropane	8.41	76	11262	1.728	ug/l #	43
59) 2-Hexanone	8.31	43	18434	3.177	ug/l #	26
60) Dibromochloromethane	8.23	129	802	0.237	ug/l #	10
64) Tetrachloroethene	8.23	164	950	0.360	ug/l	95
74) N-amyl acetate	9.77	43	15946	2.129	ug/l #	55
76) 1,2,3-Trichloropropane	10.31	75	96789	22.136	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.78	105	2602	0.254	ug/l	94
81) trans-1,4-Dichloro-2-buten	10.31	75	96789	55.241	ug/l #	100
95) Naphthalene	13.77	128	1810	Below Cal	#	72

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

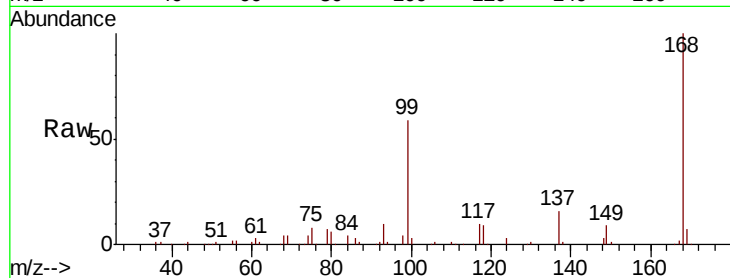
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 257443

Ion Ratio Lower Upper

168 100

99 59.3 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

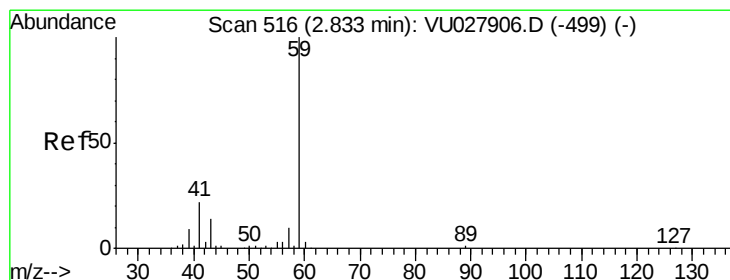
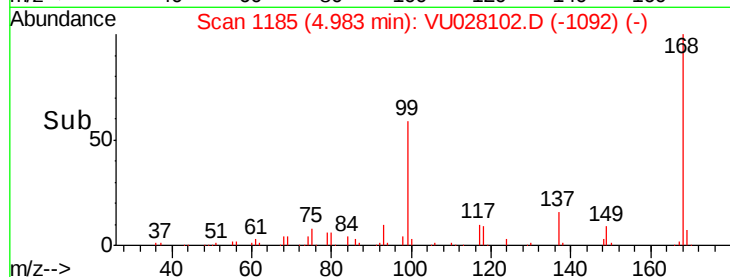
4.98

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.408 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU028102.D

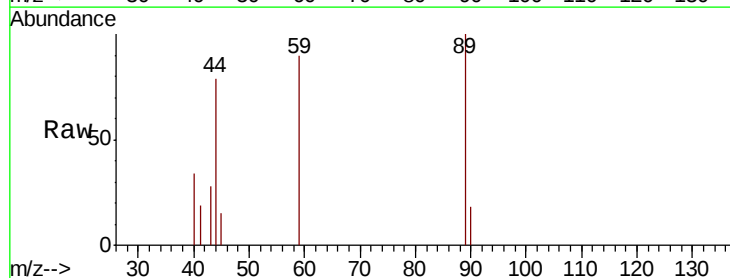
Acq: 13 Nov 2018 19:19

Tgt Ion: 59 Resp: 1427

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): VU027906.D (-499) (-)

2.84

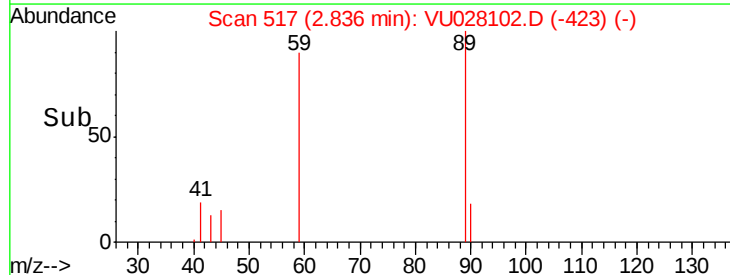
600

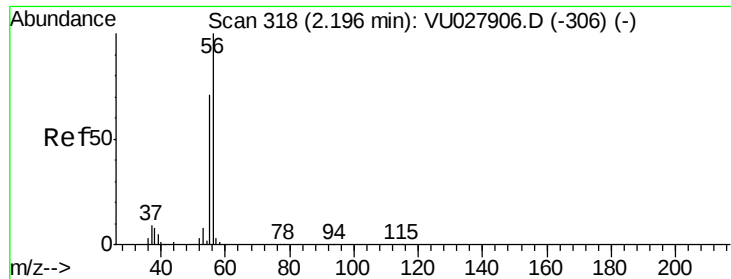
400

200

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 316

Delta R.T. -0.01 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

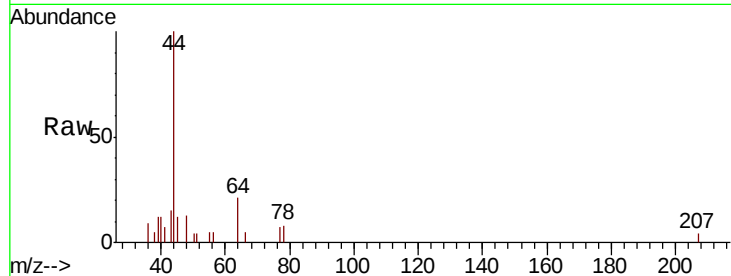
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 92

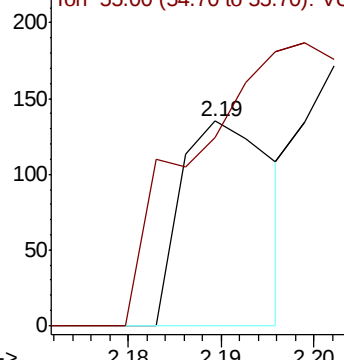
Ion Ratio Lower Upper

56 100

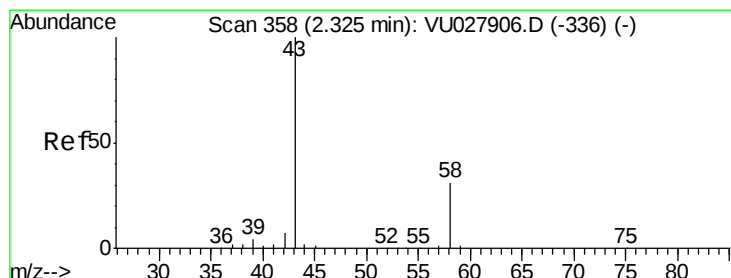
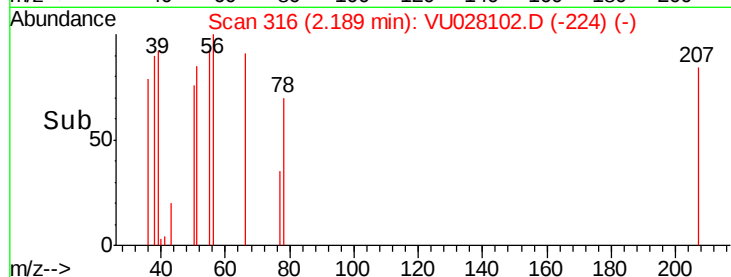
55 0.0 56.2 84.4#



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



Time-->



#16

Acetone

Concen: 6.988 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028102.D

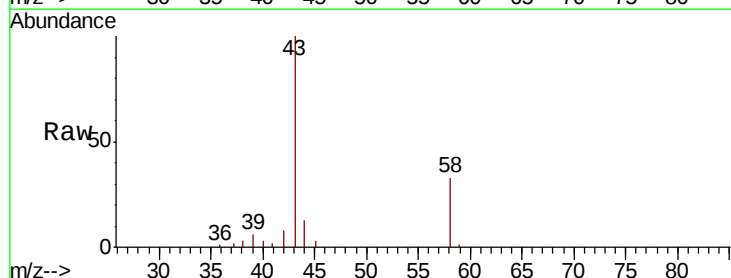
Acq: 13 Nov 2018 19:19

Tgt Ion: 43 Resp: 16594

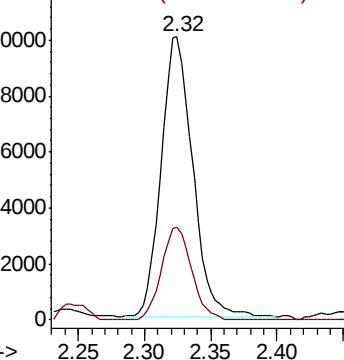
Ion Ratio Lower Upper

43 100

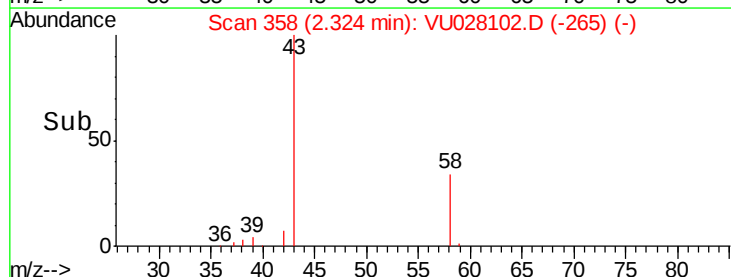
58 33.3 24.6 37.0

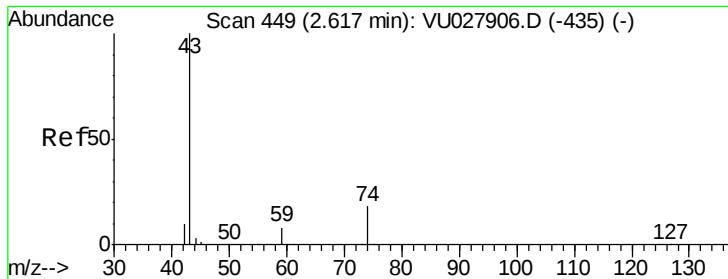


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0



Time-->

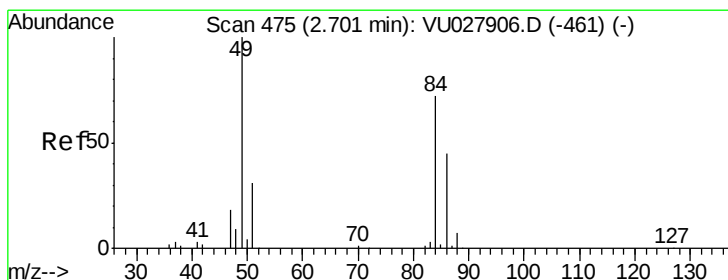
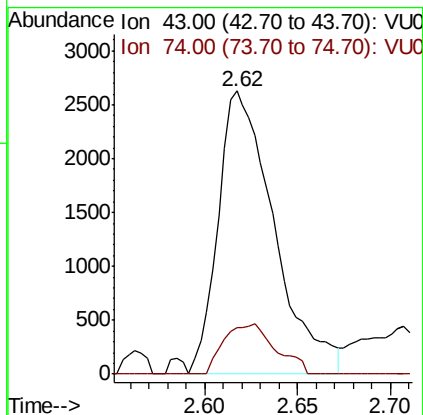
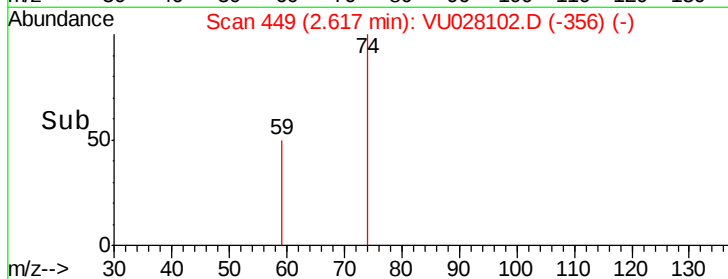
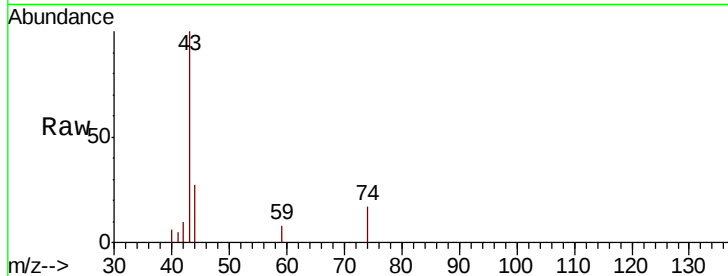




#18
Methyl Acetate
Concen: 0.844 ug/l
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

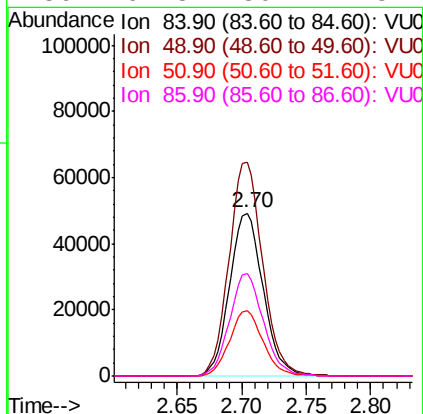
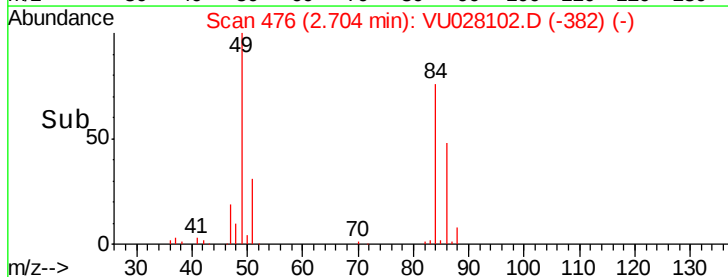
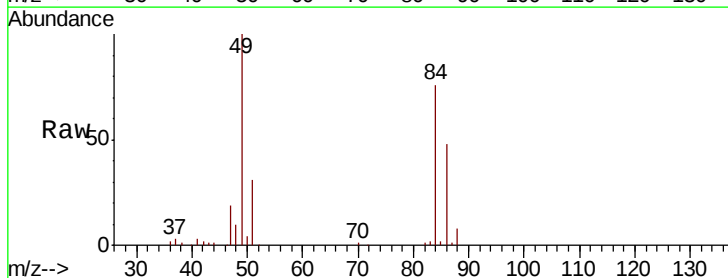
Instrument :
MSVOA_U
ClientSampled :

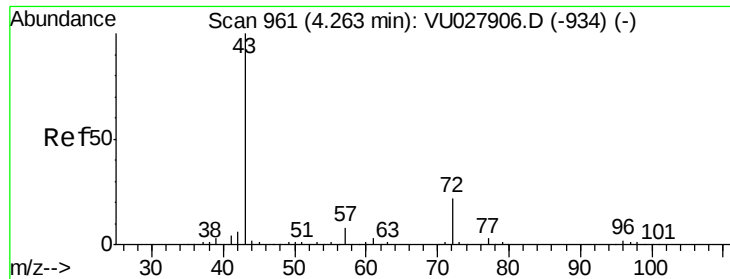
Tot Ion: 43 Resp: 5513
Ion Ratio Lower Upper
43 100
74 16.3 14.9 22.3



#20
Methylene Chloride
Concen: 25.642 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Tgt Ion: 84 Resp: 88907
Ion Ratio Lower Upper
84 100
49 131.0 111.6 167.4
51 40.0 34.8 52.2
86 62.8 50.1 75.1





#25

2-Butanone

Concen: 0.214 ug/l

RT: 4.29 min Scan# 968

Delta R.T. 0.02 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

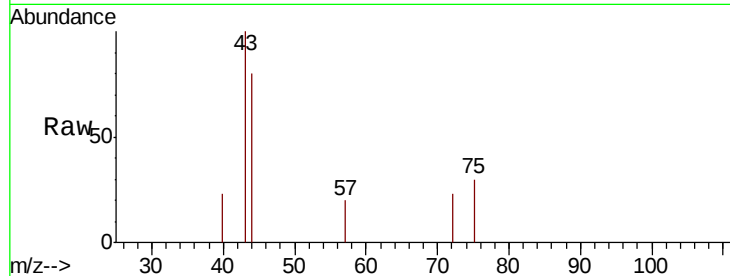
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 809

Ion Ratio Lower Upper

43 100

72 23.5 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.29

600

500

400

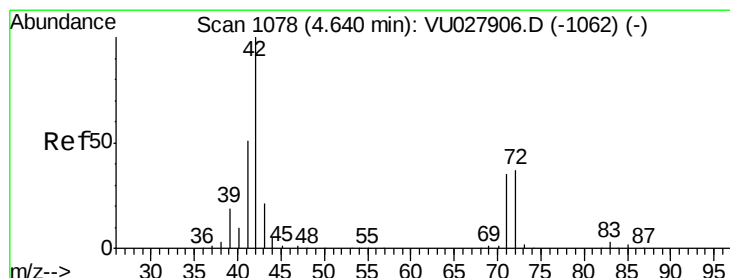
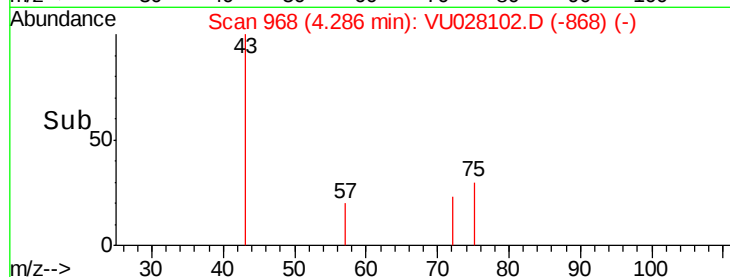
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.336 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

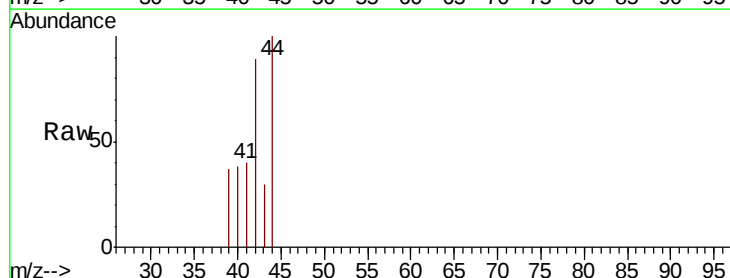
Tgt Ion: 42 Resp: 847

Ion Ratio Lower Upper

42 100

72 6.0 29.4 44.0#

71 8.3 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

500

400

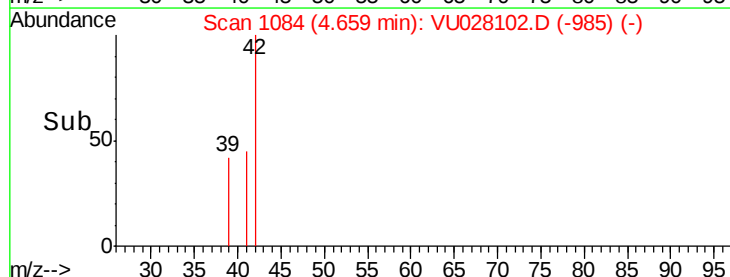
300

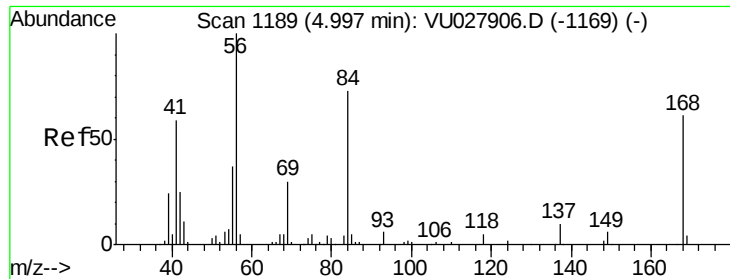
200

100

0

Time-->

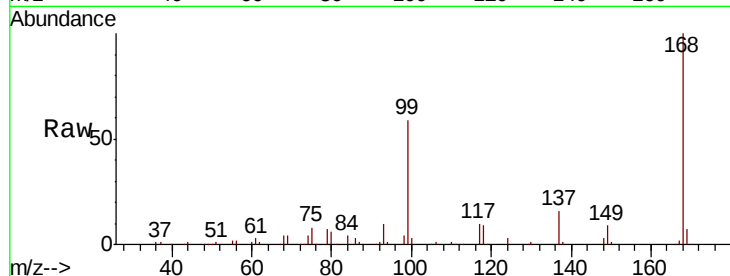




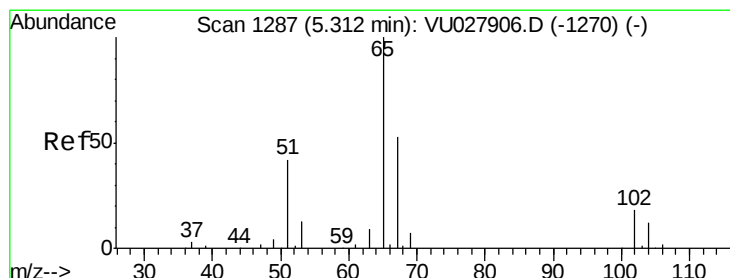
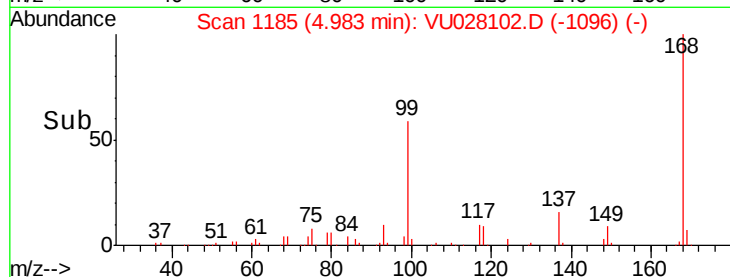
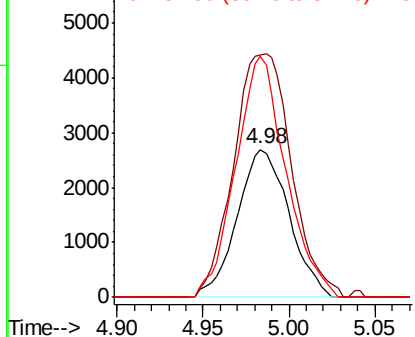
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 5640
Ion Ratio Lower Upper
56 100
69 163.4 23.7 35.5#
84 163.0 58.2 87.4#

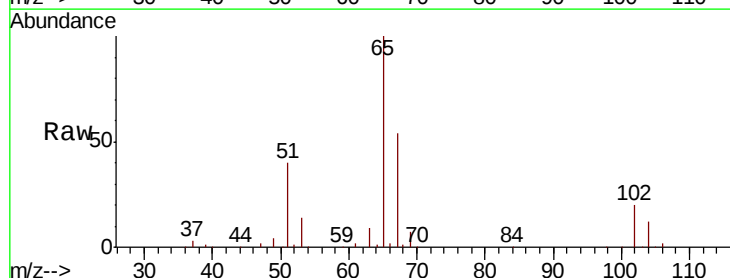


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

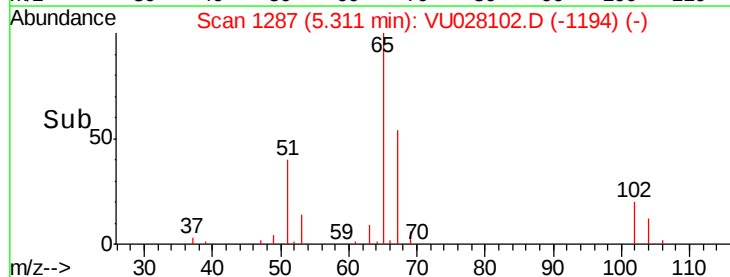
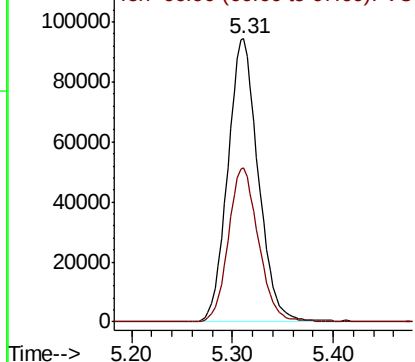


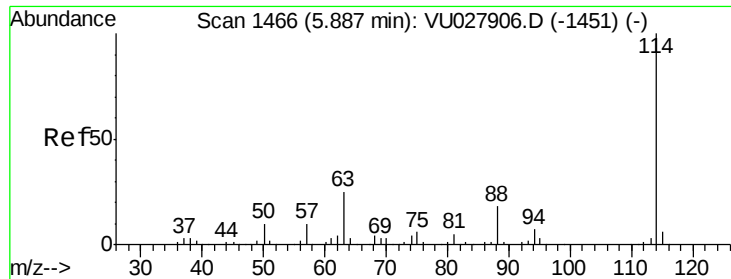
#33
1,2-Dichloroethane-d4
Concen: 51.876 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Tgt Ion: 65 Resp: 198559
Ion Ratio Lower Upper
65 100
67 53.9 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

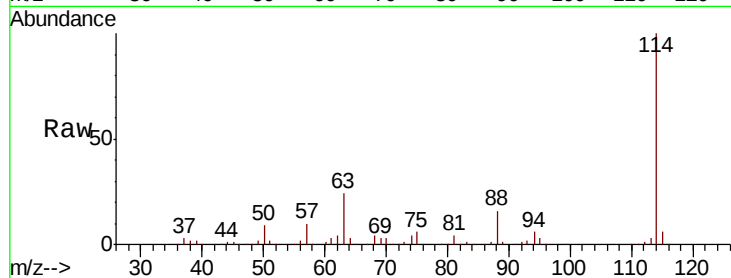




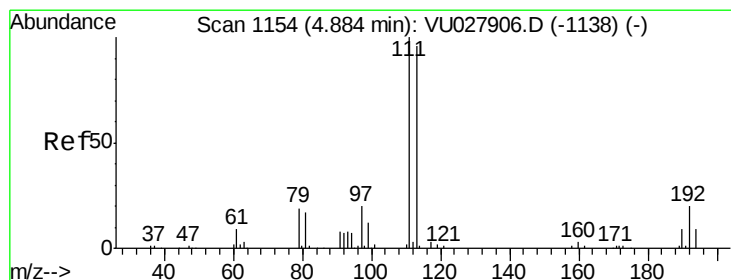
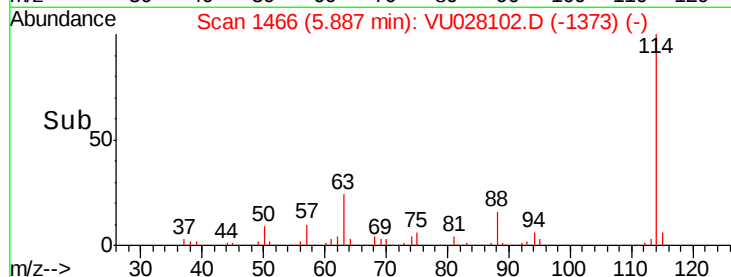
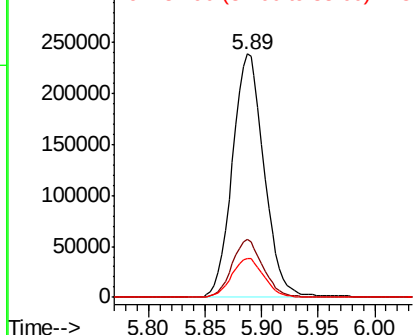
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 467172
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 50.8
 88 16.2 0.0 35.8

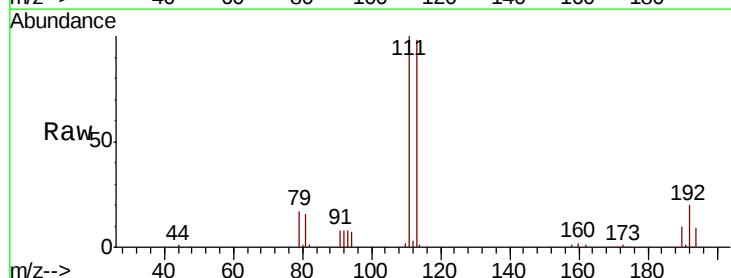


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

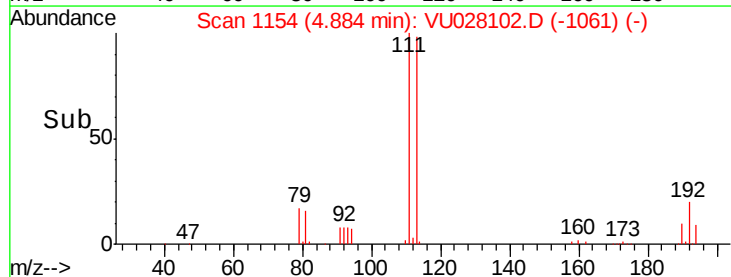
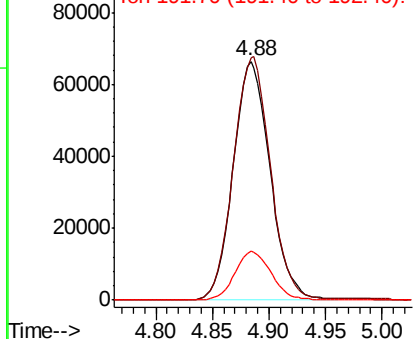


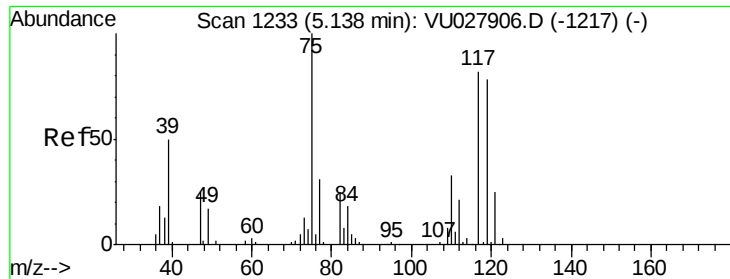
#35
 Dibromofluoromethane
 Concen: 51.232 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

Tgt Ion:113 Resp: 150910
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.0 124.6
 192 20.0 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

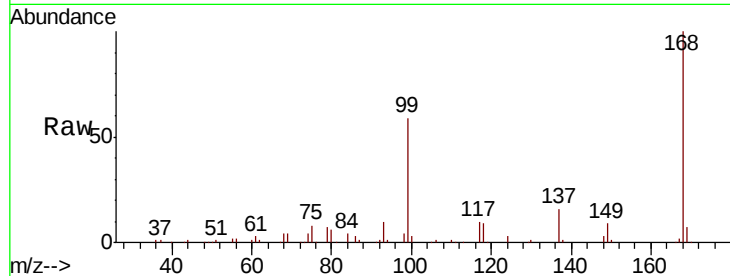




#36
 1,1-Dichloropropene
 Concen: 4.399 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

Instrument :
 MSVOA_U
 ClientSampleId :

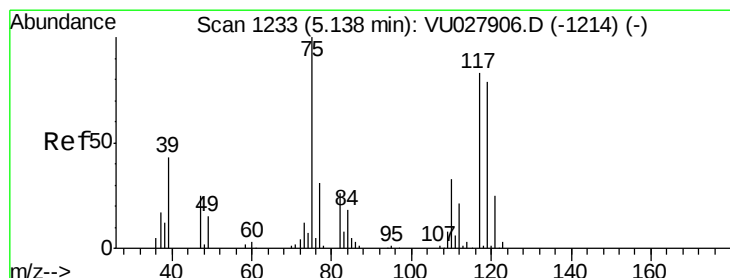
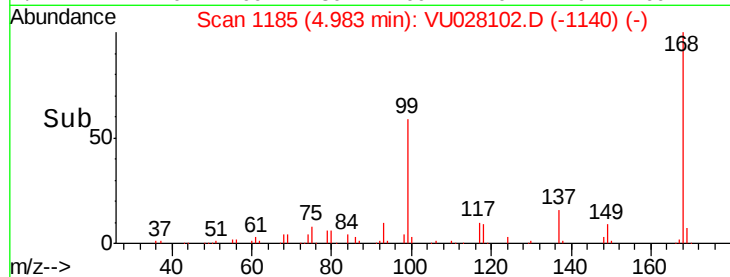
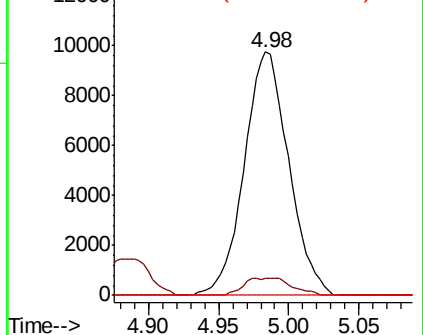
Tot Ion	75	Resp	21524
Ion Ratio	Lower	Upper	
75	100		
110	3.1	16.5	49.5#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU028102.D (-1140) (-)

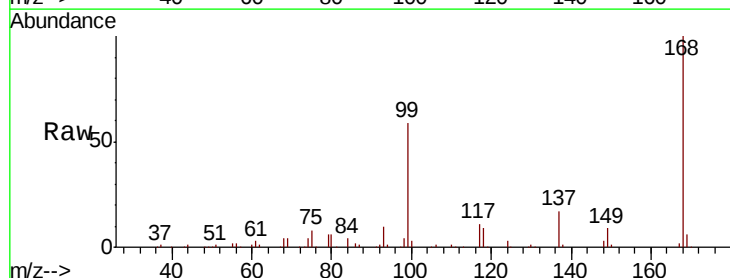
Ion 109.90 (109.60 to 110.60): VU028102.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU028102.D (-1140) (-)



#38
 Carbon Tetrachloride
 Concen: 6.024 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

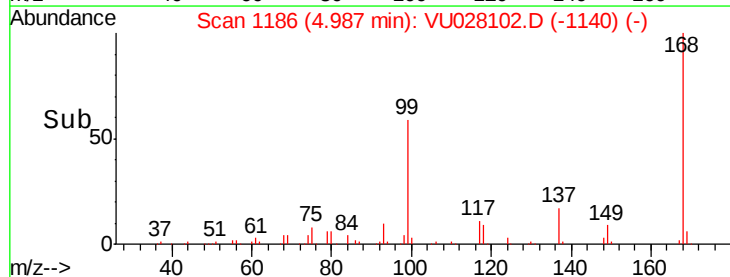
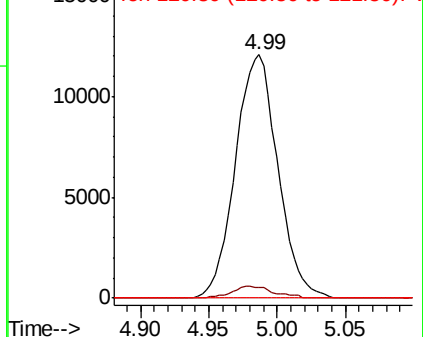
Tgt Ion	117	Resp	26122
Ion Ratio	Lower	Upper	
117	100		
119	4.5	76.0	114.0#
121	0.0	24.5	36.7#

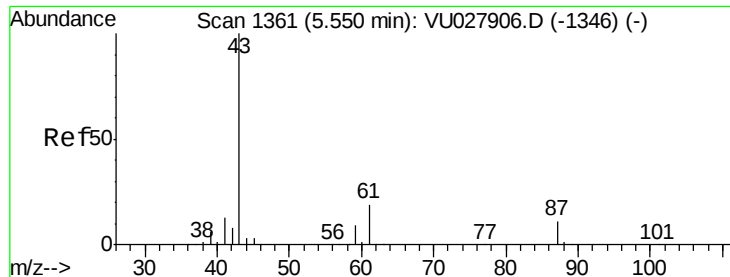


Abundance Ion 116.80 (116.50 to 117.50): VU028102.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028102.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028102.D (-1140) (-)





#43

Isopropyl Acetate

Concen: 2.249 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

Instrument :

MSVOA_U

ClientSampled :

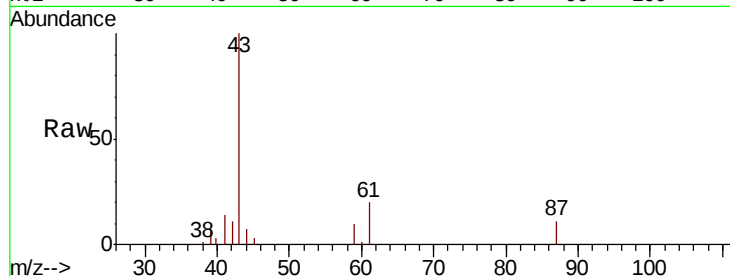
Tot Ion: 43 Resp: 25257

Ion Ratio Lower Upper

43 100

61 18.0 15.0 22.4

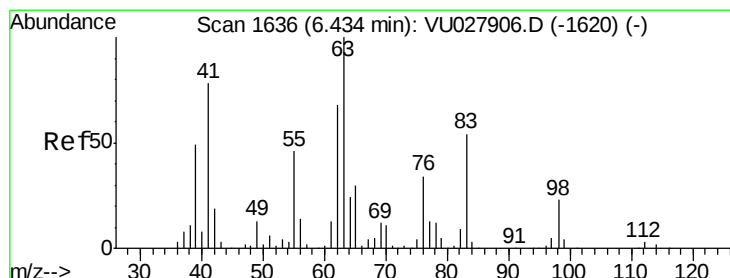
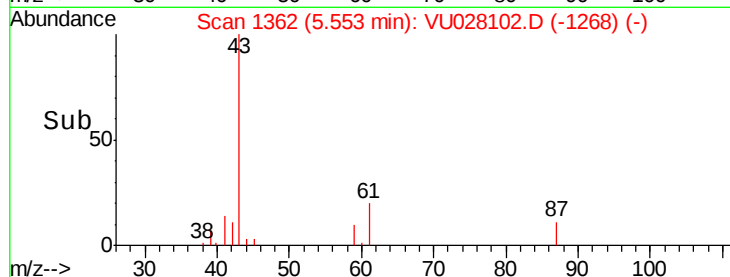
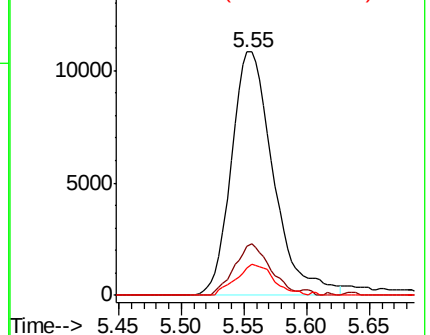
87 11.4 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU028102.D (-1268) (-)

Ion 61.00 (60.70 to 61.70): VU028102.D (-1268) (-)

Ion 87.00 (86.70 to 87.70): VU028102.D (-1268) (-)



#45

1,2-Dichloropropane

Concen: 0.442 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.27 min

Lab File: VU028102.D

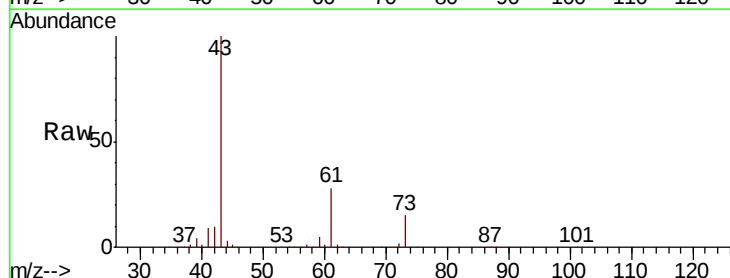
Acq: 13 Nov 2018 19:19

Tgt Ion: 63 Resp: 1908

Ion Ratio Lower Upper

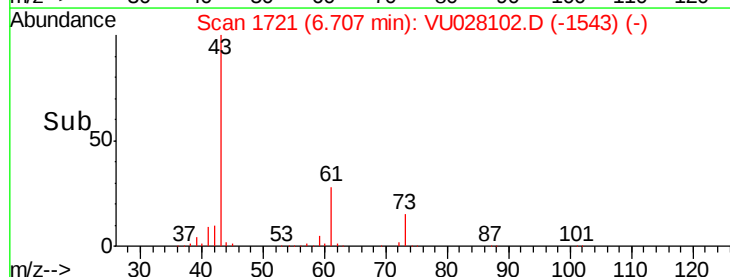
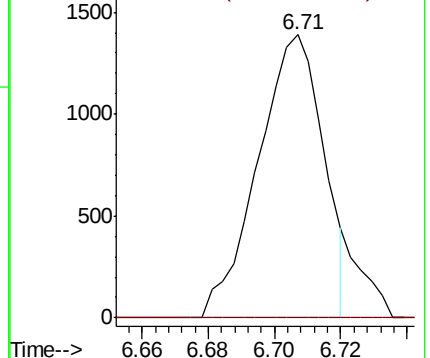
63 100

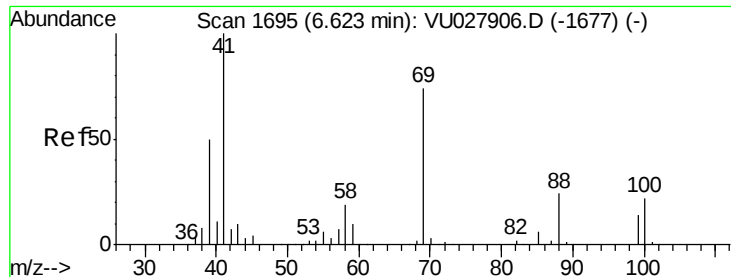
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VU028102.D (-1543) (-)

Ion 64.90 (64.60 to 65.60): VU028102.D (-1543) (-)

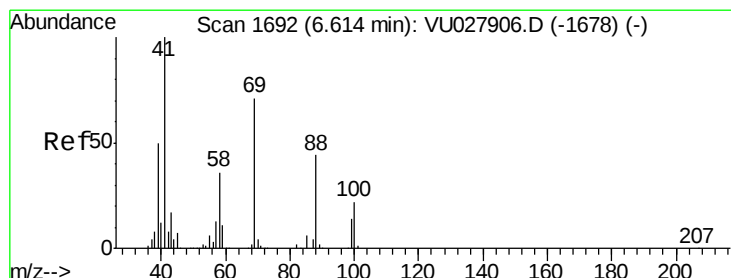
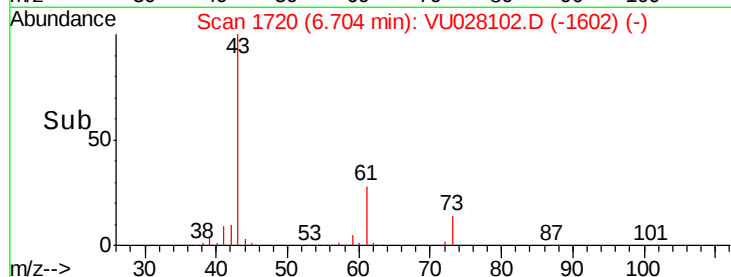
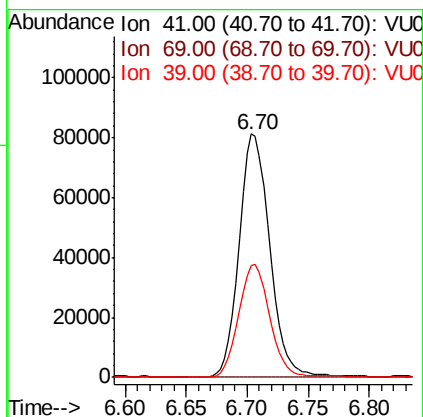
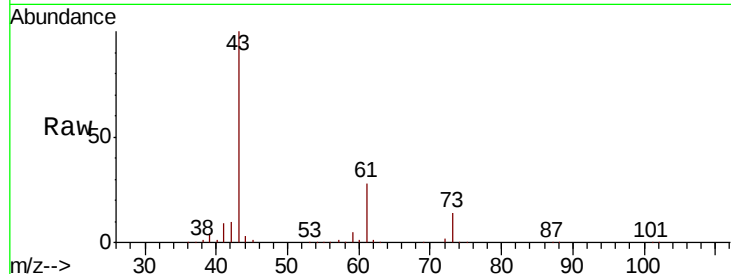




#48
Methvl methacrylate
Concen: 25.463 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.08 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

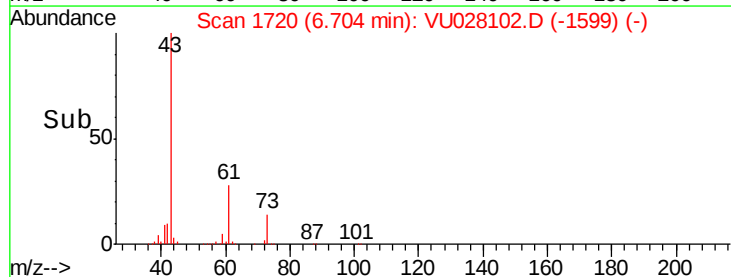
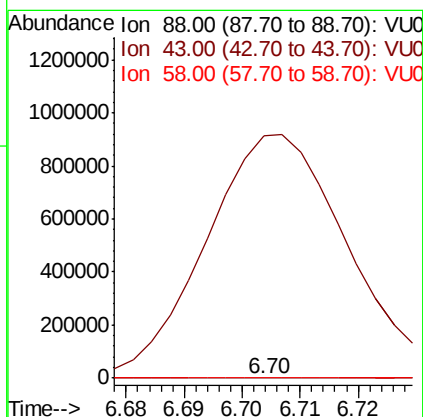
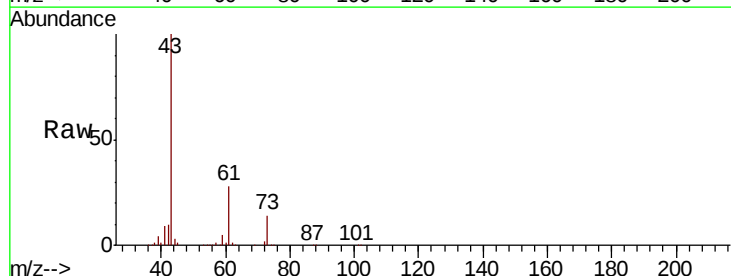
Instrument :
MSVOA_U
ClientSampled :

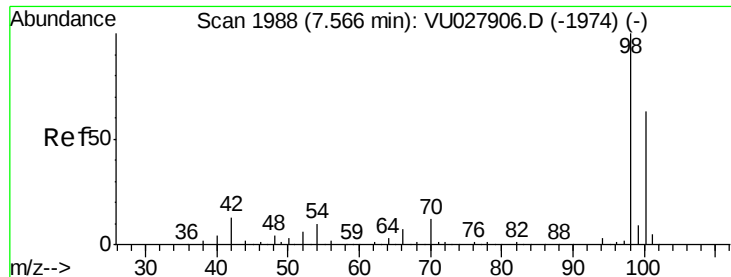
Tot Ion: 41 Resp: 140150
Ion Ratio Lower Upper
41 100
69 0.1 59.8 89.8#
39 47.8 40.0 60.0



#49
1,4-Dioxane
Concen: 1.826 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.09 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Tgt Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 979161.6 30.5 45.7#
58 3568.9 67.1 100.7#





#50

Toluene-d8

Concen: 52.625 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

Instrument :

MSVOA_U

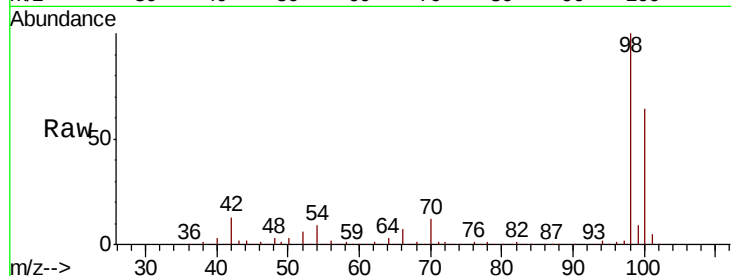
ClientSampleId :

Tot Ion: 98 Resp: 598800

Ion Ratio Lower Upper

98 100

100 62.8 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU027906.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU028102.D (-1895) (-)

7.57

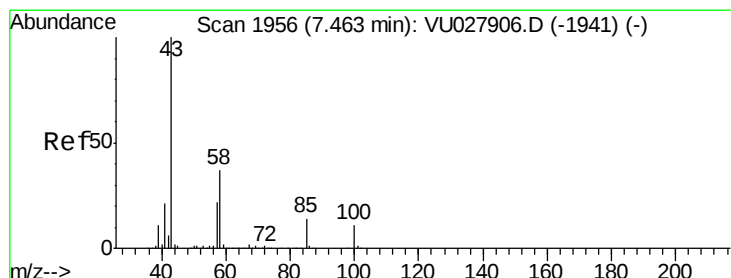
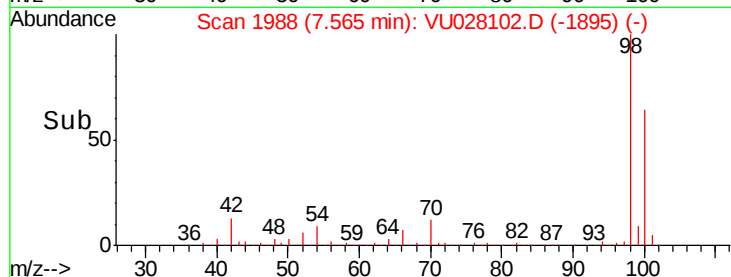
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 14.787 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. -0.04 min

Lab File: VU028102.D

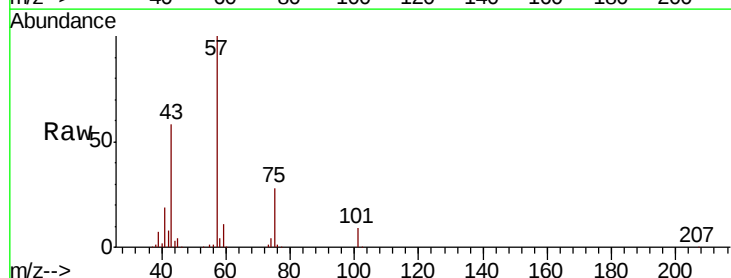
Acq: 13 Nov 2018 19:19

Tgt Ion: 43 Resp: 110921

Ion Ratio Lower Upper

43 100

58 6.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU028102.D (-1863) (-)

7.42

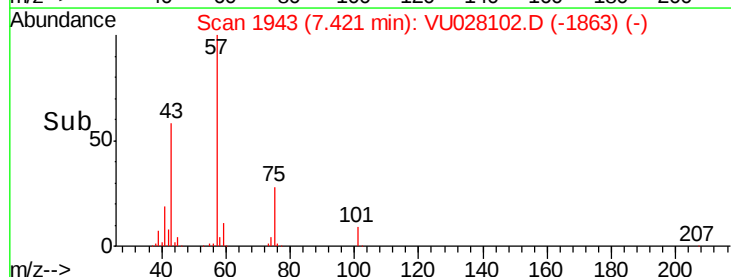
60000

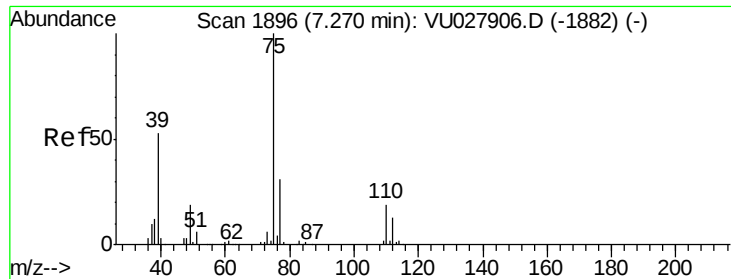
40000

20000

0

Time-->

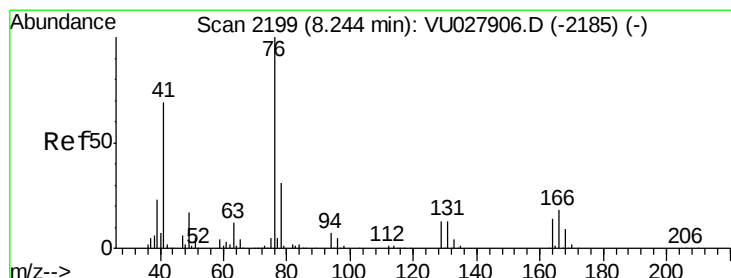
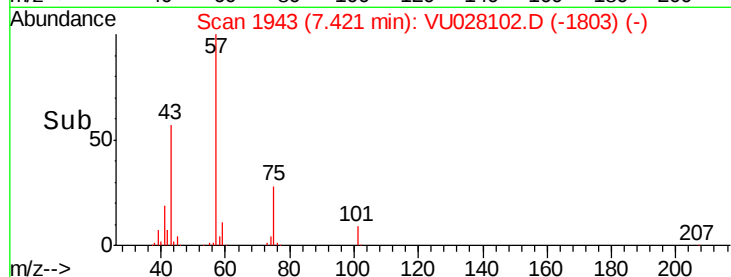
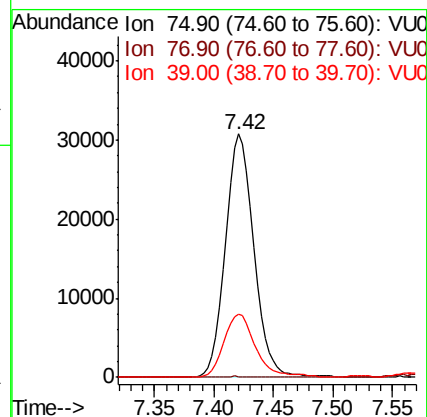
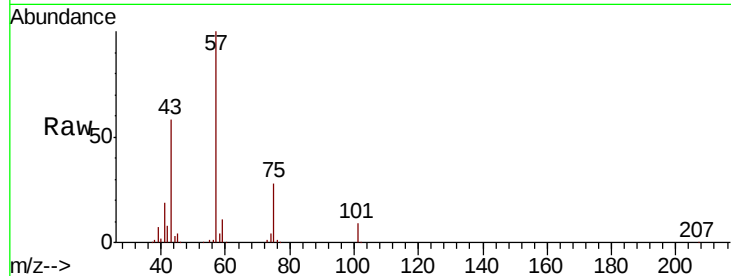




#54
 cis-1,3-Dichloropropene
 Concen: 8.666 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

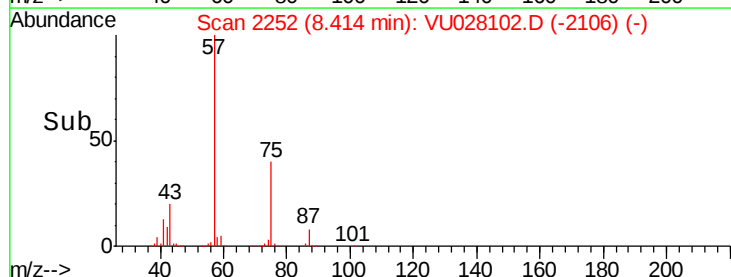
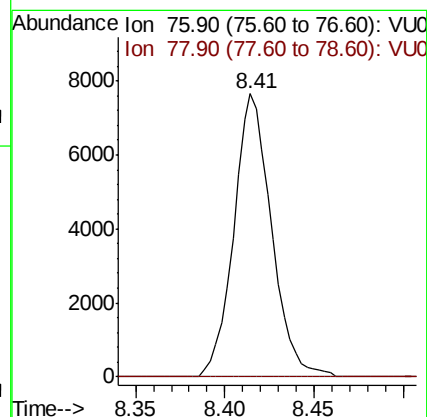
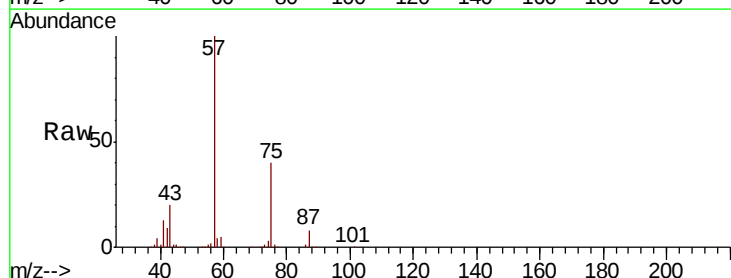
Instrument :
 MSVOA_U
 ClientSampleId :

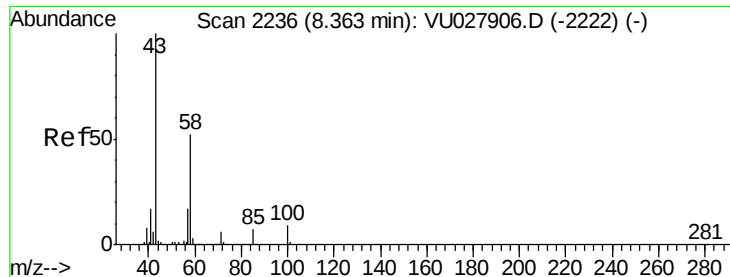
Tot Ion: 75 Resp: 51051
 Ion Ratio Lower Upper
 75 100
 77 0.4 24.6 37.0#
 39 26.0 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 1.728 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028102.D
 Acq: 13 Nov 2018 19:19

Tgt Ion: 76 Resp: 11262
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

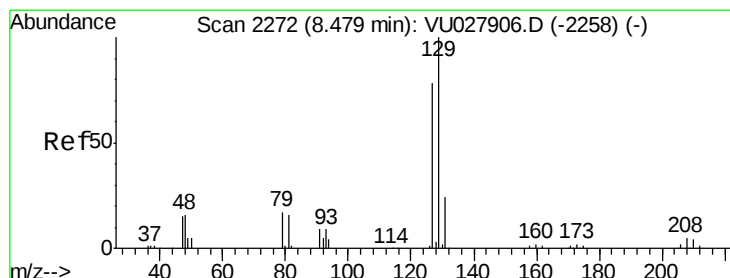
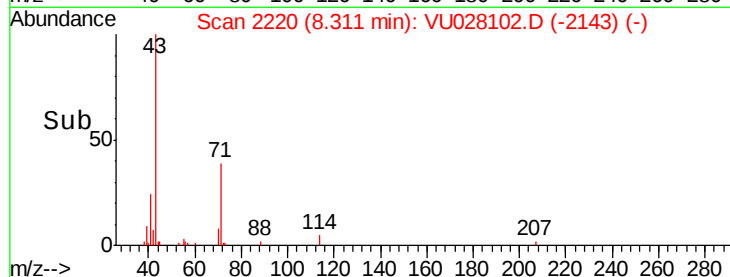
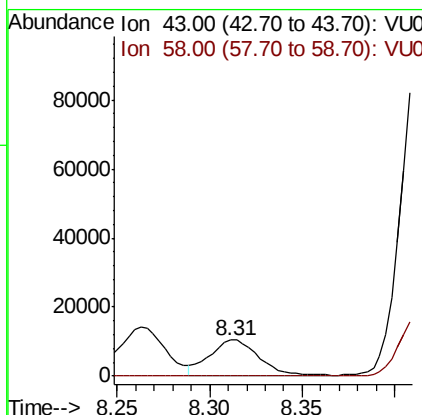
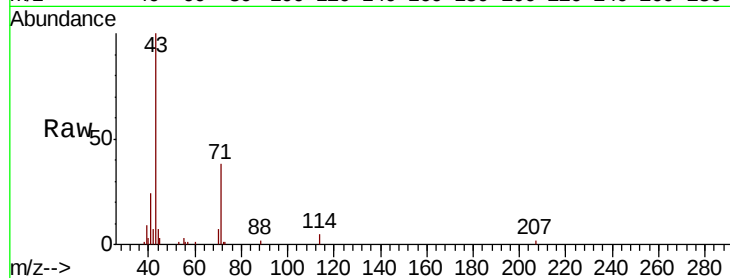




#59
2-Hexanone
Concen: 3.177 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

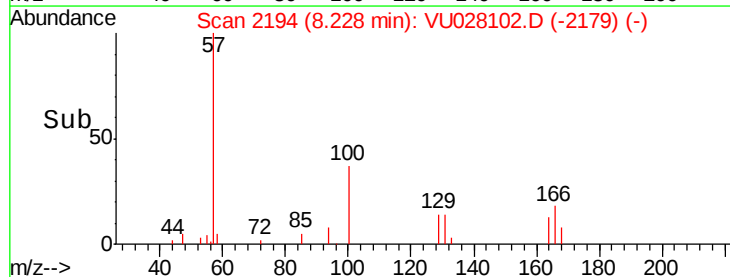
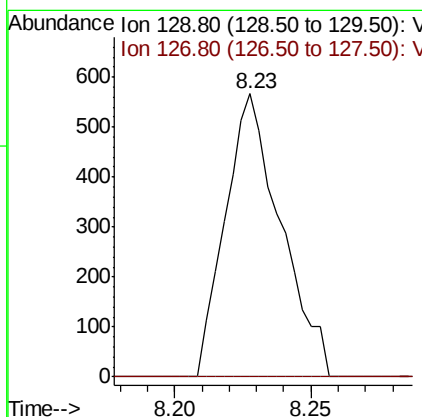
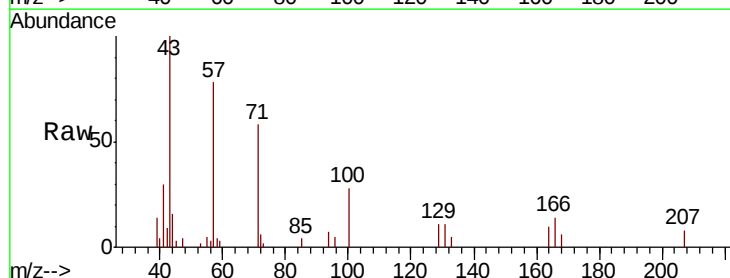
Instrument :
MSVOA_U
ClientSampleId :

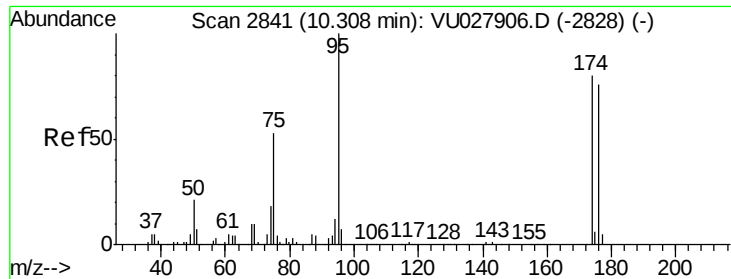
Tot Ion: 43 Resp: 18434
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#60
Dibromochloromethane
Concen: 0.237 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Tgt Ion: 129 Resp: 802
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

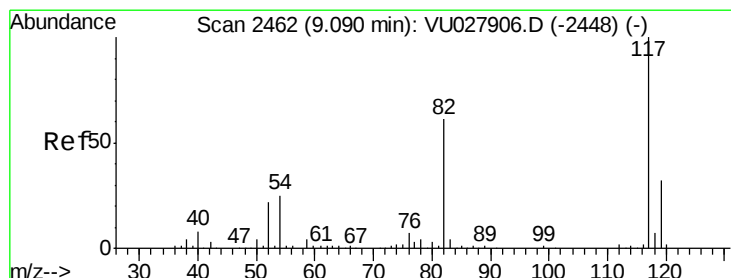
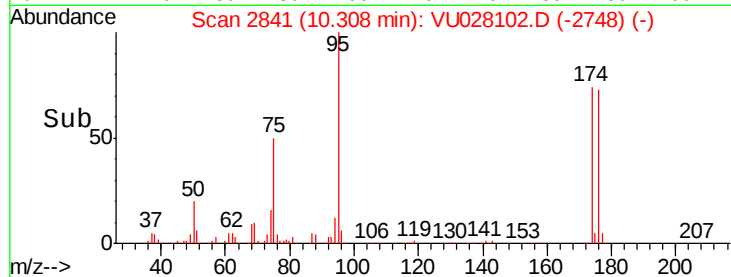
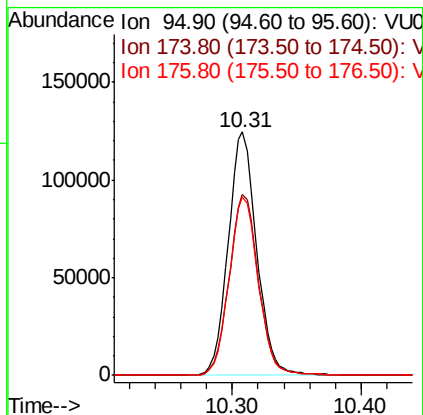
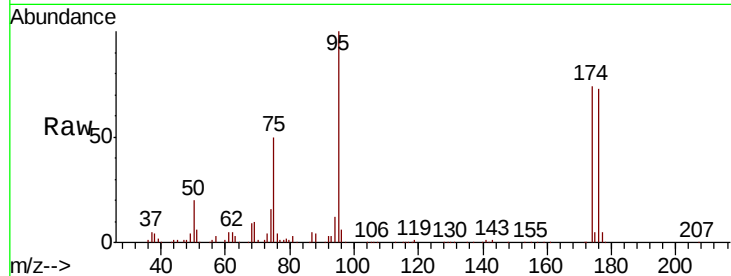




#62
4-Bromofluorobenzene
Concen: 45.518 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

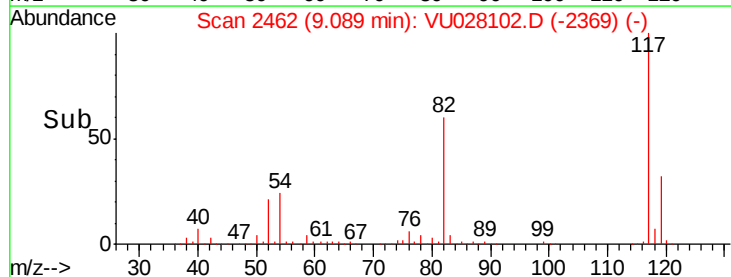
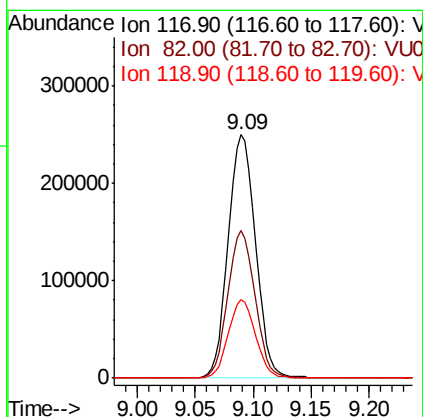
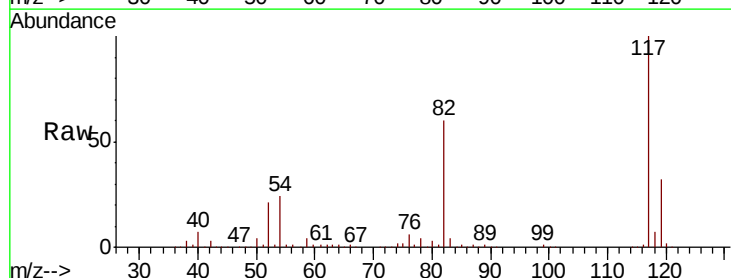
Instrument :
MSVOA_U
ClientSampleId :

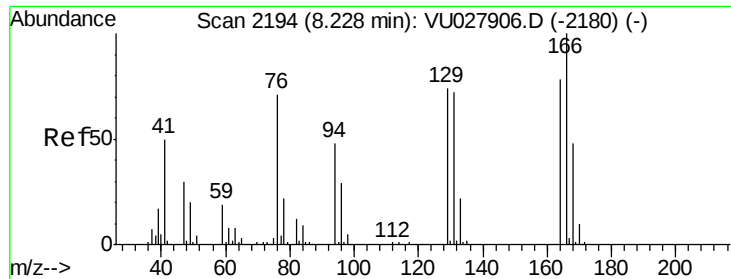
Tot Ion: 95 Resp: 191036
Ion Ratio Lower Upper
95 100
174 76.5 0.0 156.4
176 75.0 0.0 150.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028102.D
Acq: 13 Nov 2018 19:19

Tgt Ion: 117 Resp: 406991
Ion Ratio Lower Upper
117 100
82 60.5 48.6 73.0
119 32.1 25.8 38.8





#64

Tetrachloroethene

Concen: 0.360 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 950

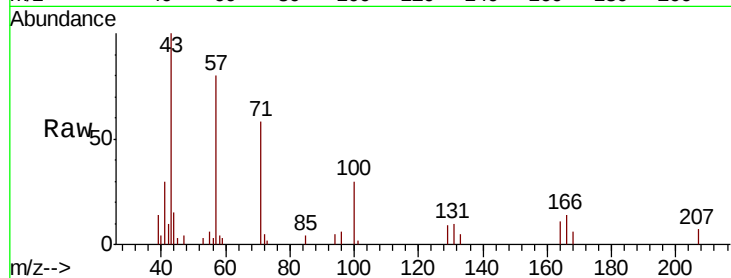
Ion Ratio Lower Upper

164 100

166 128.5 102.1 153.1

129 85.5 75.9 113.9

131 96.4 73.0 109.6

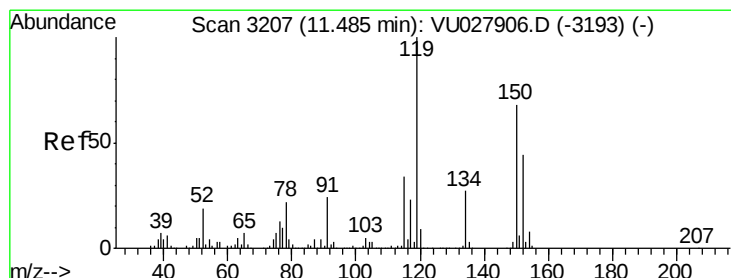
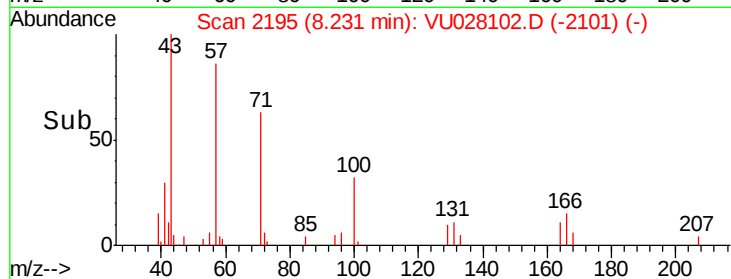
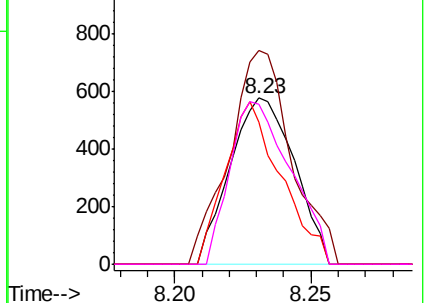


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU028102.D

Acq: 13 Nov 2018 19:19

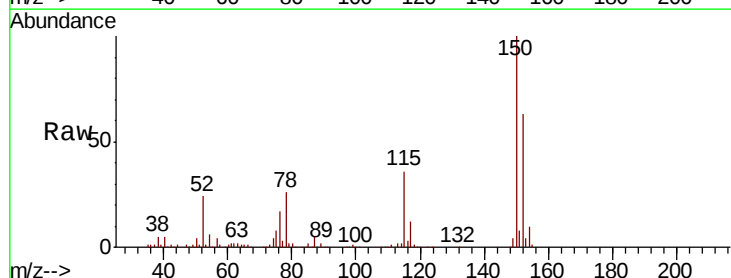
Tgt Ion:152 Resp: 159856

Ion Ratio Lower Upper

152 100

115 58.1 43.0 129.0

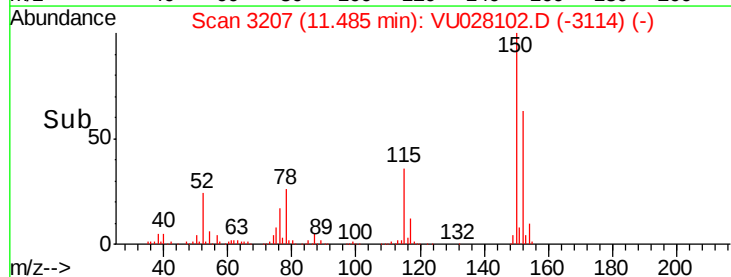
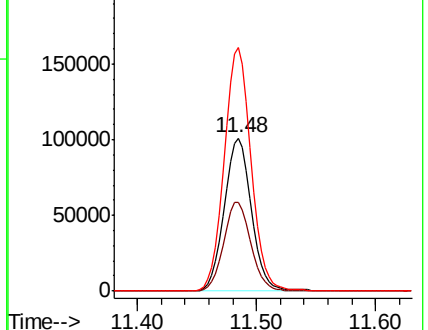
150 157.0 0.0 349.4

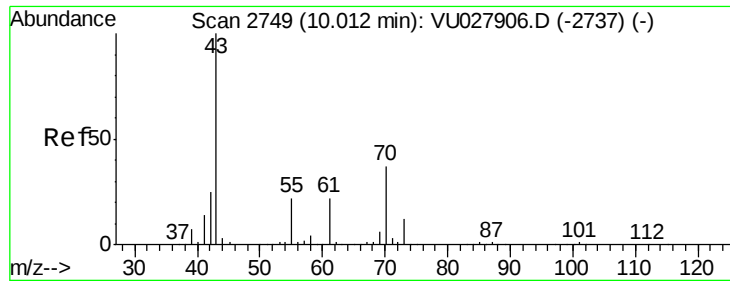


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.129 ug/l

RT: 9.77 min Scan# 2673

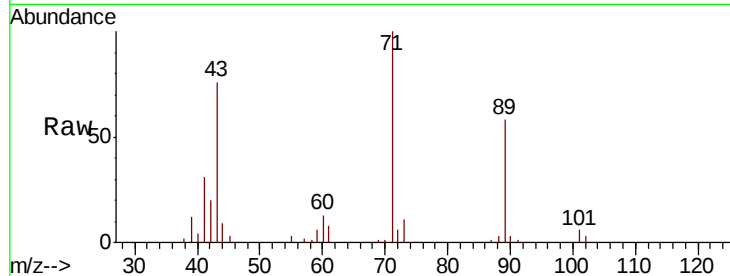
Delta R.T. -0.24 min

Lab File: VU028102.D

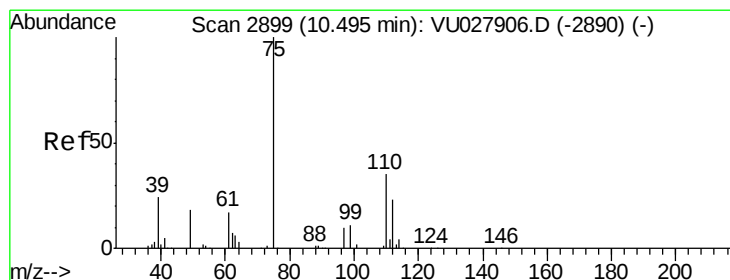
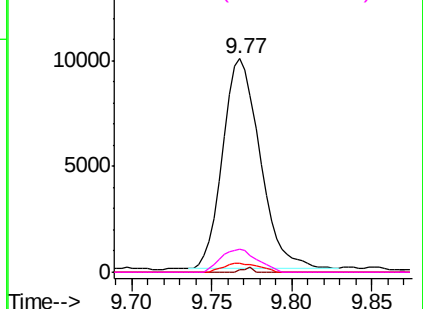
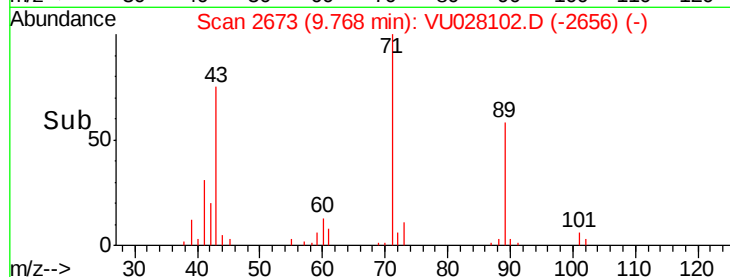
Acq: 13 Nov 2018 19:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	15946
Ion	Ratio	Lower	Upper
43	100		
70	0.6	29.2	43.8#
55	4.1	17.8	26.6#
61	10.5	17.8	26.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 70.00 (69.70 to 70.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 22.136 ug/l

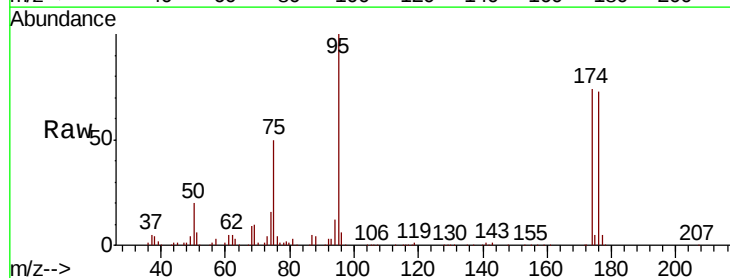
RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

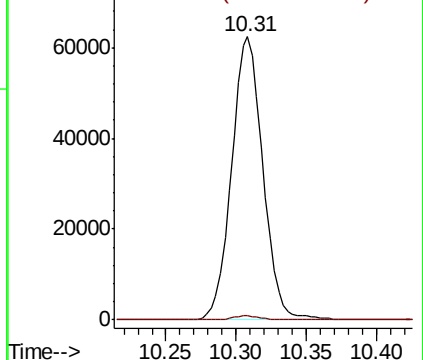
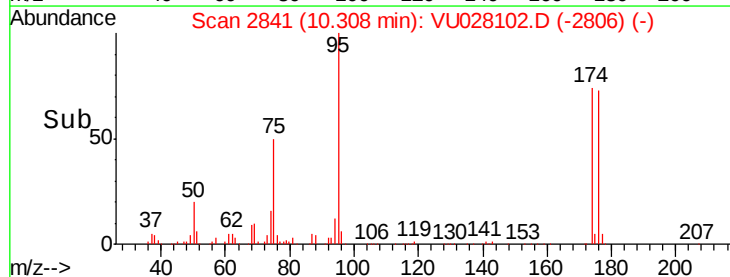
Lab File: VU028102.D

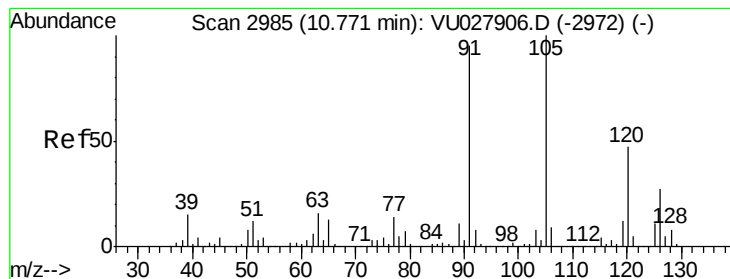
Acq: 13 Nov 2018 19:19

Tgt Ion:	75	Resp:	96789
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





#80

1,3,5-Trimethylbenzene

Concen: 0.254 ug/l

RT: 10.78 min Scan# 2987

Delta R.T. 0.01 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

Instrument :

MSVOA_U

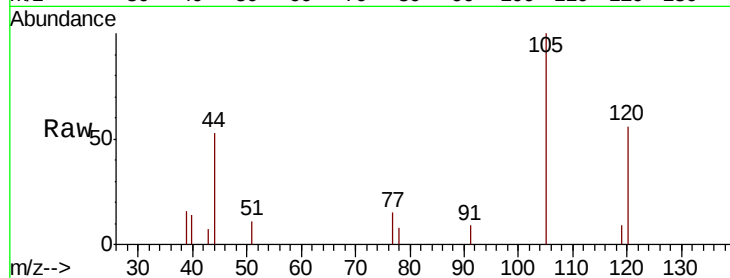
ClientSampleId :

Tot Ion:105 Resp: 2602

Ion Ratio Lower Upper

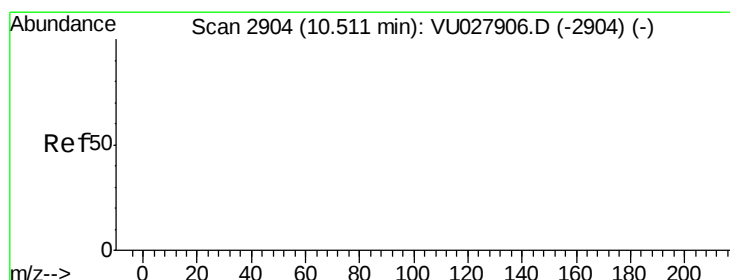
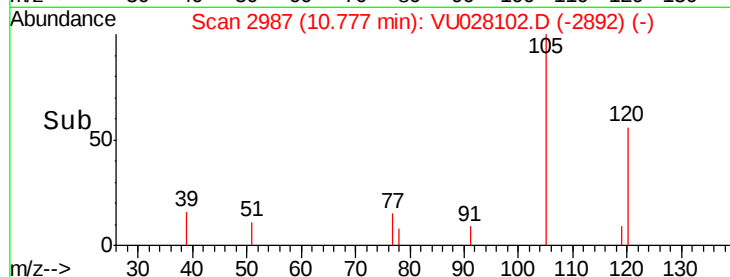
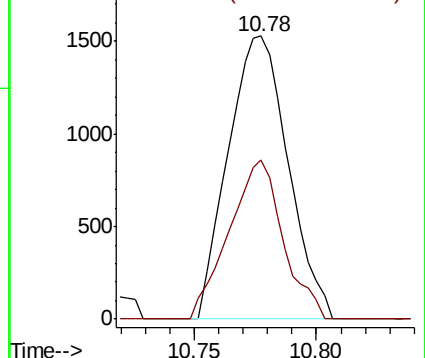
105 100

120 50.5 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 55.241 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028102.D

Acq: 13 Nov 2018 19:19

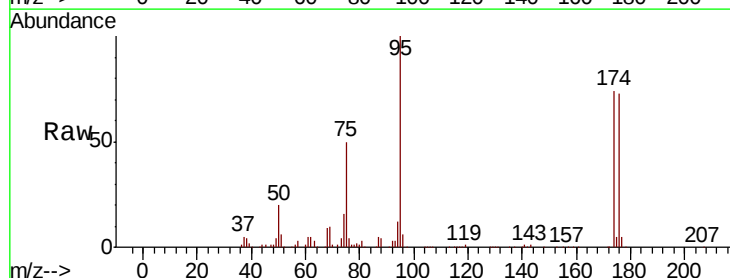
Tgt Ion: 75 Resp: 96789

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

