

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002153.D
 Acq On : 30 May 2018 22:38
 Operator : JC/MD
 Sample : J3192-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-2

Quant Time: May 31 02:11:50 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	45196	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	242694	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	212213	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	112218	31.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.17%
60) 4-Bromofluorobenzene	11.14	95	96689	26.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.73%
63) Toluene-d8	8.72	98	289888	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

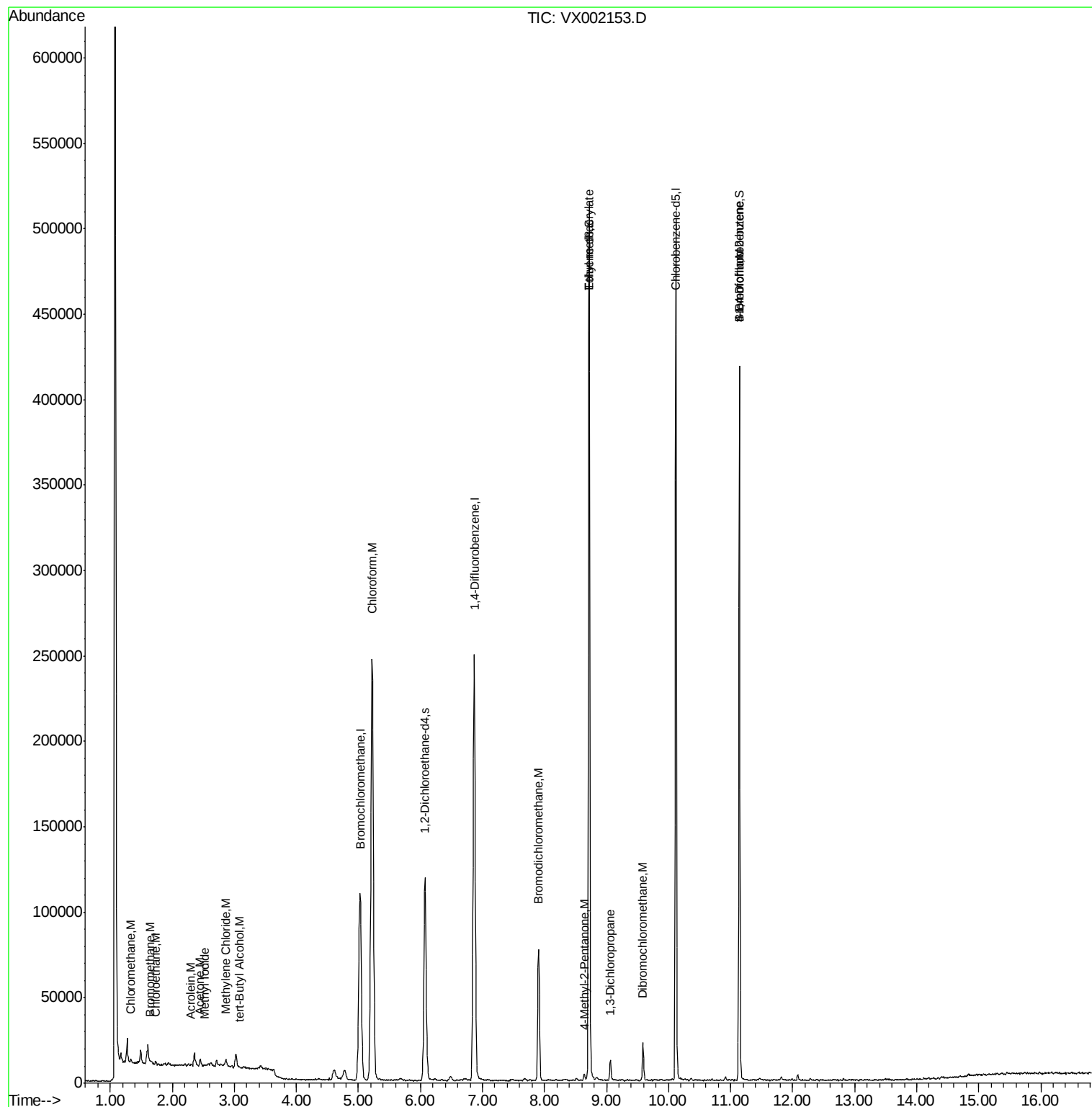
						Qvalue
3) Chloromethane	1.32	50	1140	0.40	ug/l	90
5) Bromomethane	1.65	94	1121	0.70	ug/l	94
6) Chloroethane	1.73	64	991	0.59	ug/l	97
11) Methyl Iodide	2.52	142	951	0.27	ug/l #	89
13) Acrolein	2.30	56	580	1.87	ug/l	100
15) Acetone	2.45	58	1431	3.58	ug/l	77
18) Methylene Chloride	2.86	84	1686	0.67	ug/l #	89
23) tert-Butyl Alcohol	3.08	59	211	0.27	ug/l #	73
25) Chloroform	5.22	83	282358	56.93	ug/l	100
41) Bromodichloromethane	7.90	83	46536	12.06	ug/l	99
51) Ethyl methacrylate	8.73	69	1090	0.24	ug/l	99
52) 1,3-Dichloropropane	9.06	76	1615	0.36	ug/l	47
53) Dibromochloromethane	9.59	129	3995	1.22	ug/l	98
56) Bromoform	11.15	173	1029	0.36	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	3481	0.75	ug/l #	50
77) t-1,4-Dichloro-2-butene	11.14	75	51151	38.58	ug/l #	11

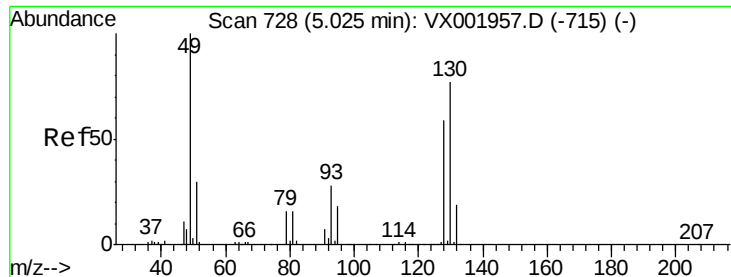
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

14B-2

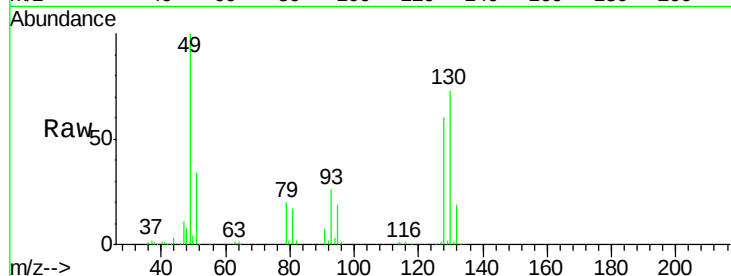
Tgt Ion:128 Resp: 45196

Ion Ratio Lower Upper

128 100

49 169.8 0.0 423.0

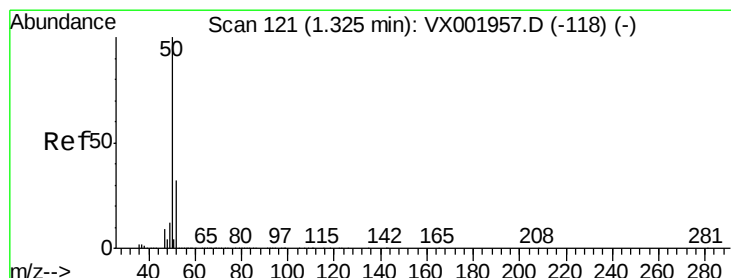
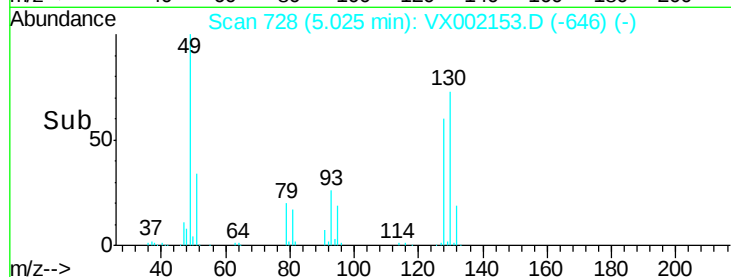
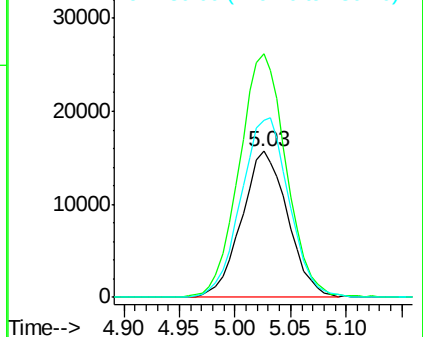
130 128.2 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.40 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002153.D

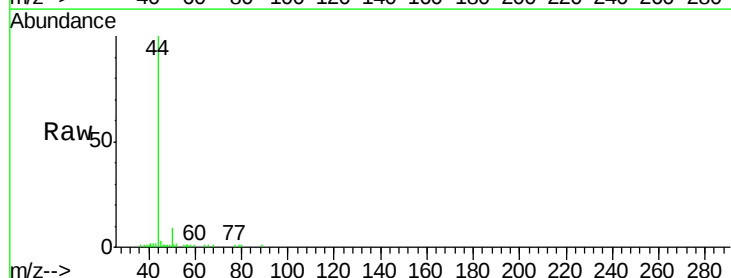
Acq: 30 May 2018 22:38

Tgt Ion: 50 Resp: 1140

Ion Ratio Lower Upper

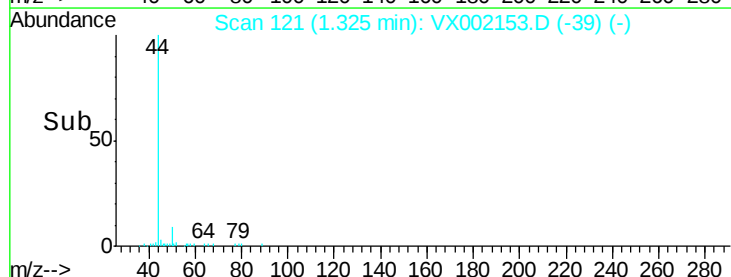
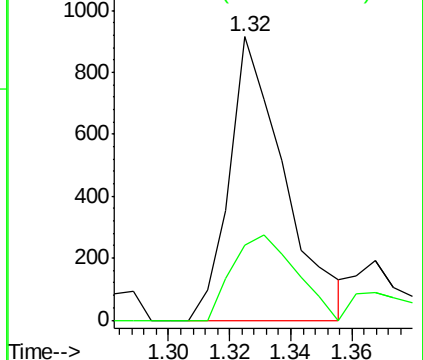
50 100

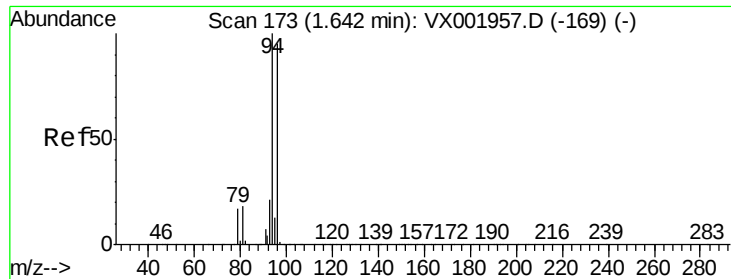
52 26.3 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.70 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampled :

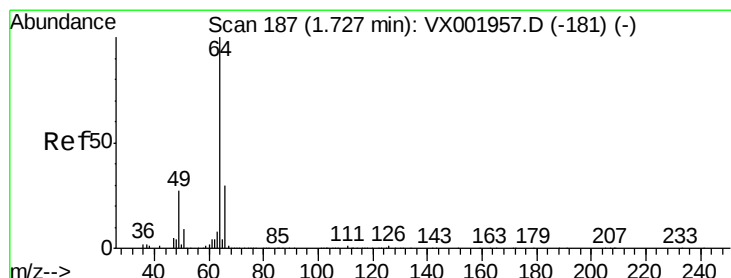
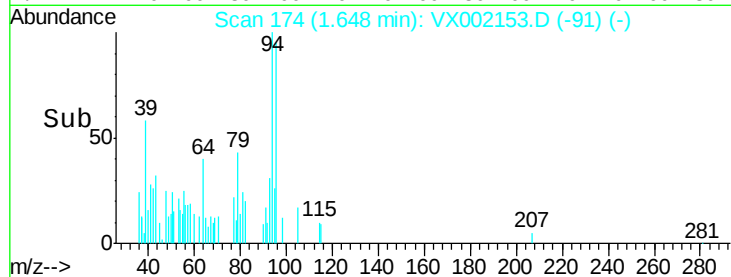
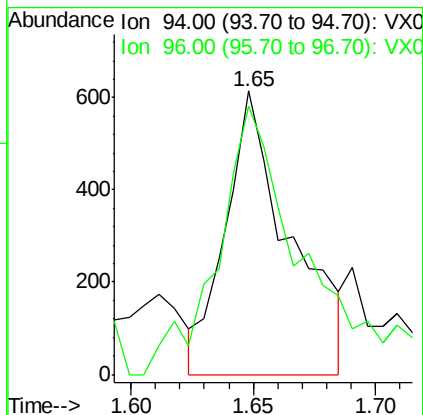
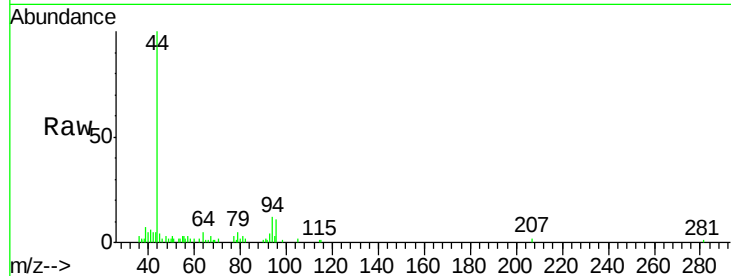
14B-2

Tgt Ion: 94 Resp: 1121

Ion Ratio Lower Upper

94 100

96 100.8 75.7 113.5



#6

Chloroethane

Concen: 0.59 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX002153.D

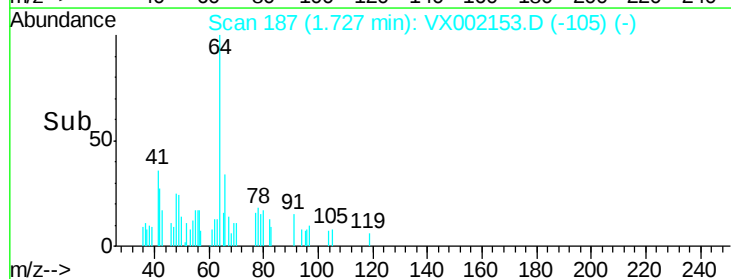
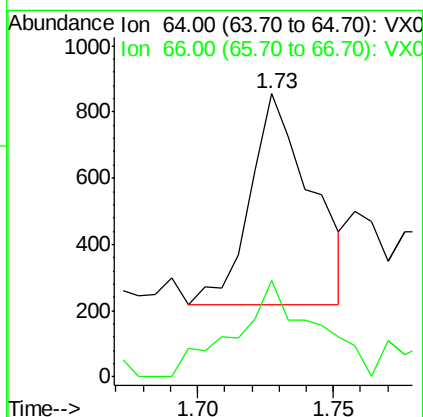
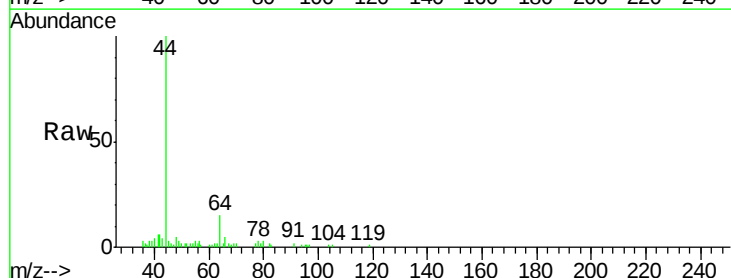
Acq: 30 May 2018 22:38

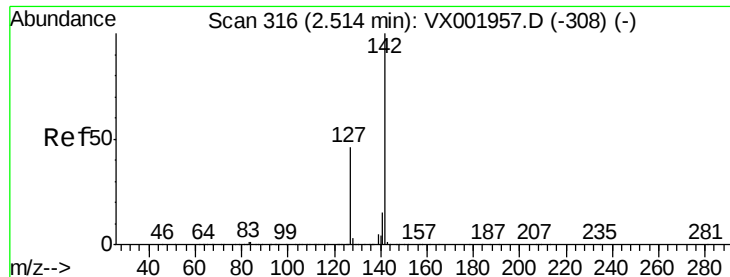
Tgt Ion: 64 Resp: 991

Ion Ratio Lower Upper

64 100

66 32.2 24.3 36.5

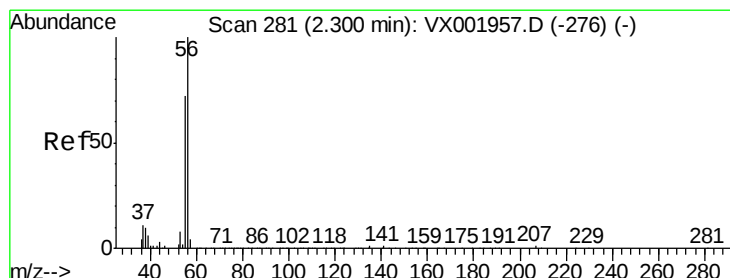
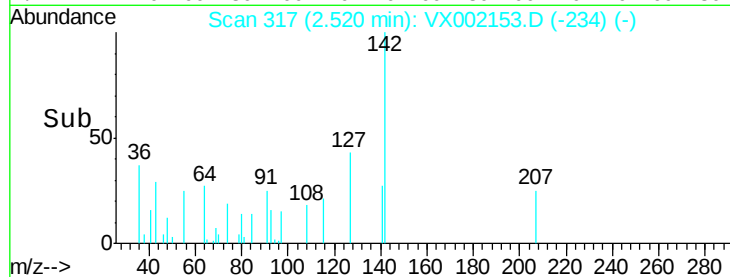
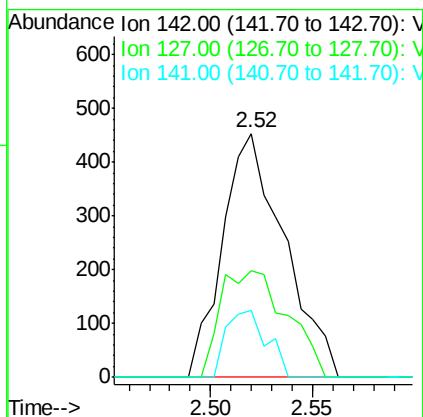
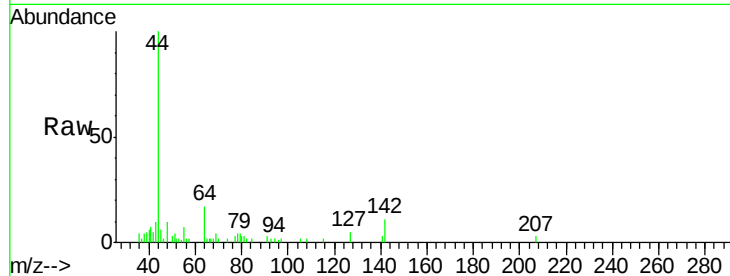




#11
Methyl Iodide
Concen: 0.27 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002153.D
Acq: 30 May 2018 22:38

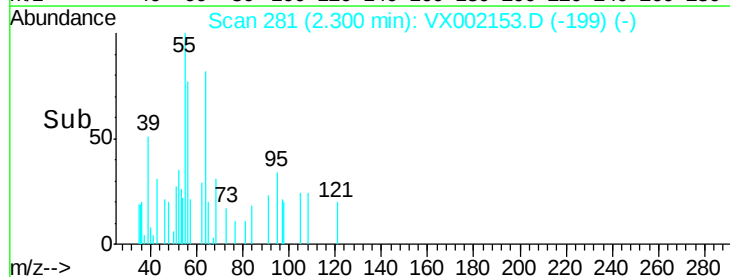
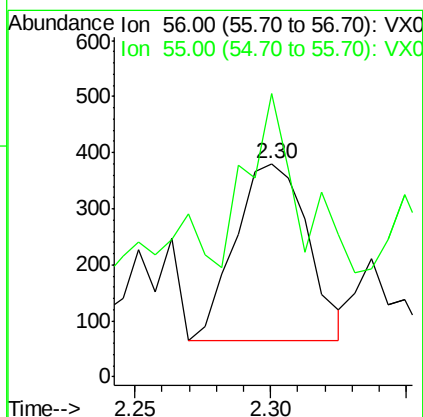
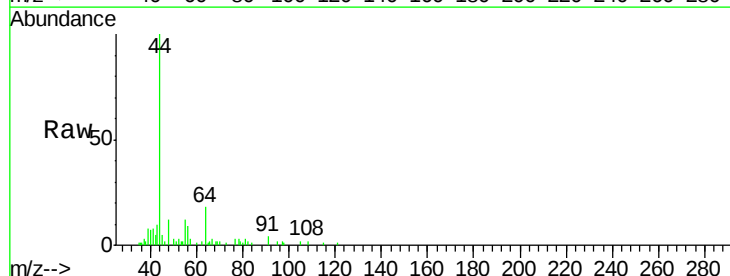
Instrument :
MSVOA_X
ClientSampleId :
14B-2

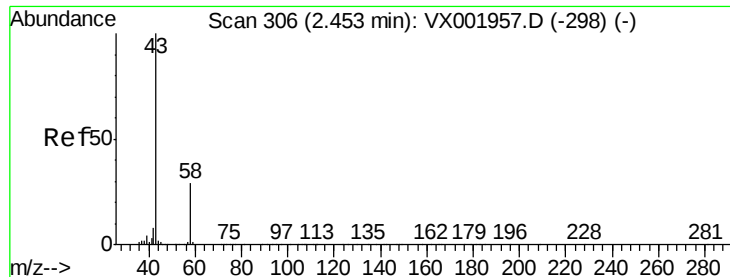
Tgt Ion:142 Resp: 951
Ion Ratio Lower Upper
142 100
127 43.5 23.2 69.6
141 27.4 7.4 22.2#



#13
Acrolein
Concen: 1.87 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002153.D
Acq: 30 May 2018 22:38

Tgt Ion: 56 Resp: 580
Ion Ratio Lower Upper
56 100
55 71.4 57.3 85.9





#15

Acetone

Concen: 3.58 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

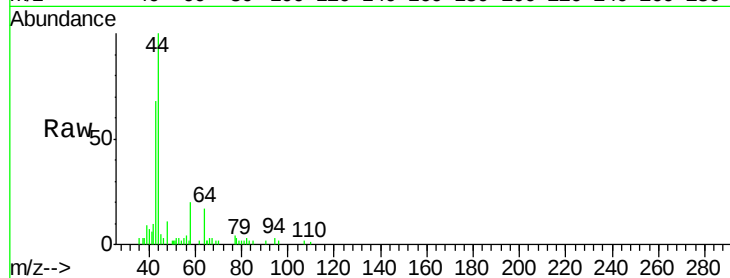
14B-2

Tgt Ion: 58 Resp: 1431

Ion Ratio Lower Upper

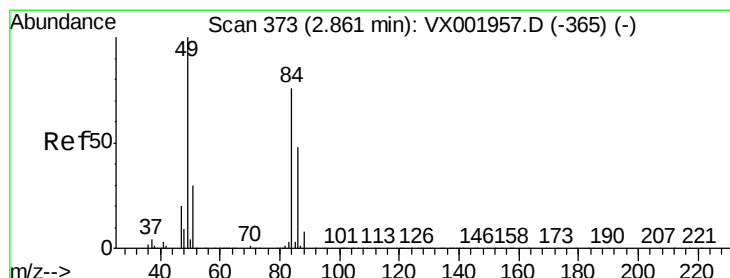
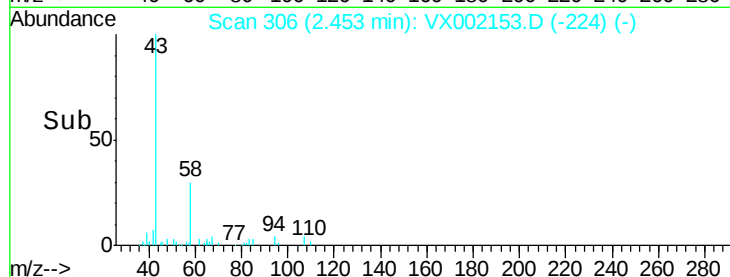
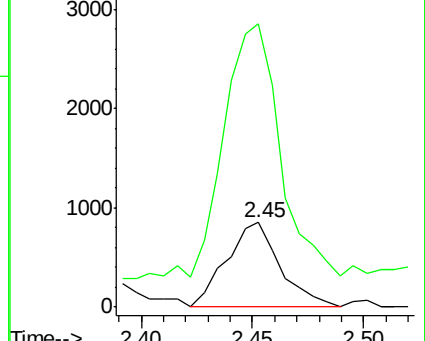
58 100

43 298.9 278.8 418.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.67 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Tgt Ion: 84 Resp: 1686

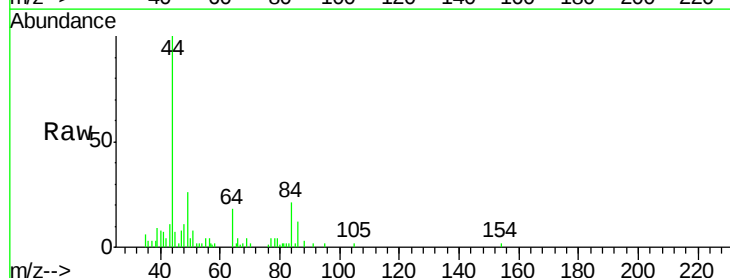
Ion Ratio Lower Upper

84 100

49 117.7 104.7 157.1

51 29.7 31.0 46.4#

86 57.1 50.8 76.2

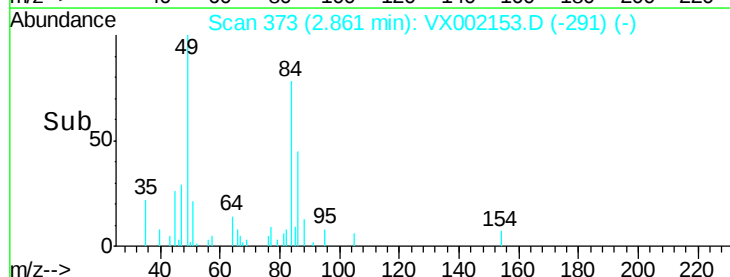
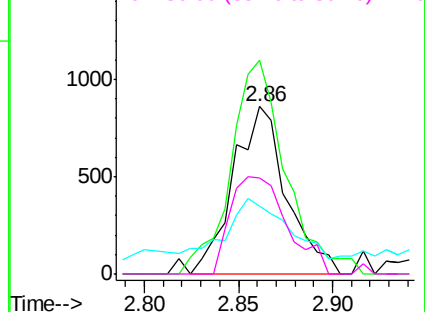


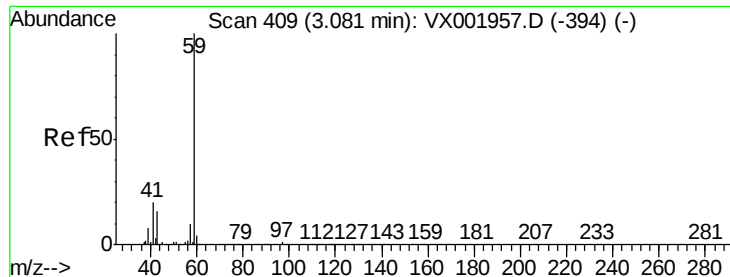
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#23

tert-Butyl Alcohol

Concen: 0.27 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampled :

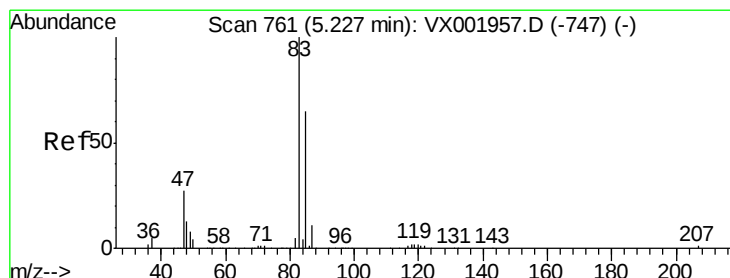
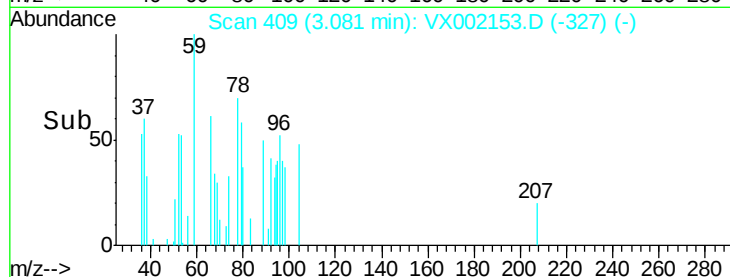
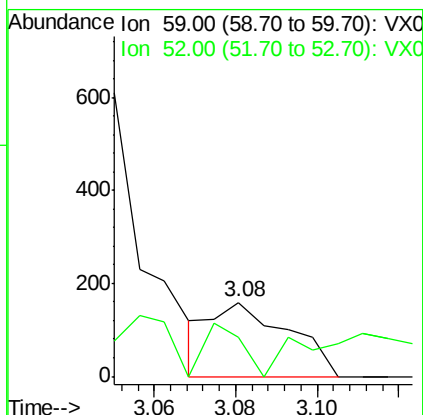
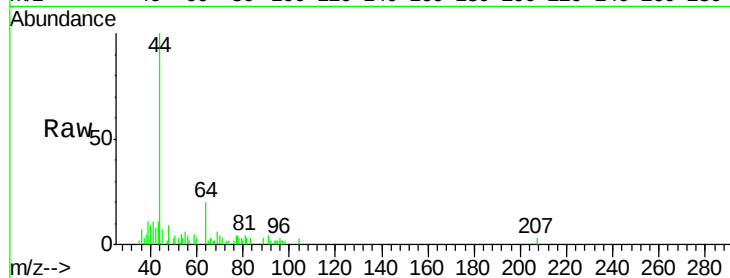
14B-2

Tgt Ion: 59 Resp: 211

Ion Ratio Lower Upper

59 100

52 34.6 0.2 0.2#



#25

Chloroform

Concen: 56.93 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.01 min

Lab File: VX002153.D

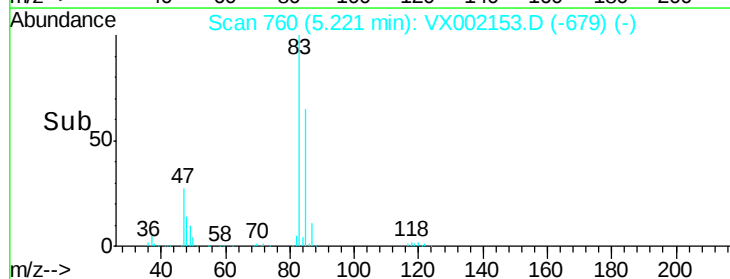
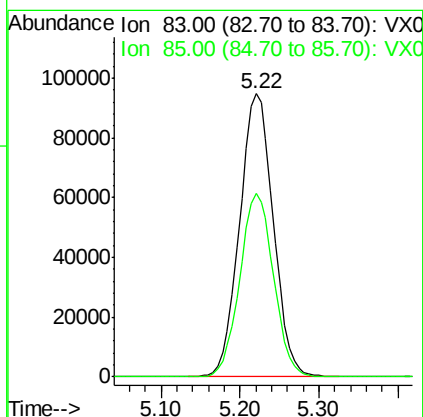
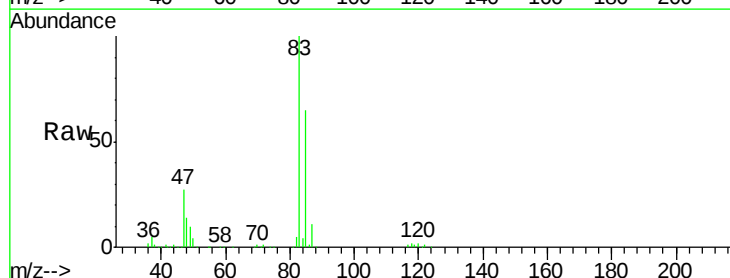
Acq: 30 May 2018 22:38

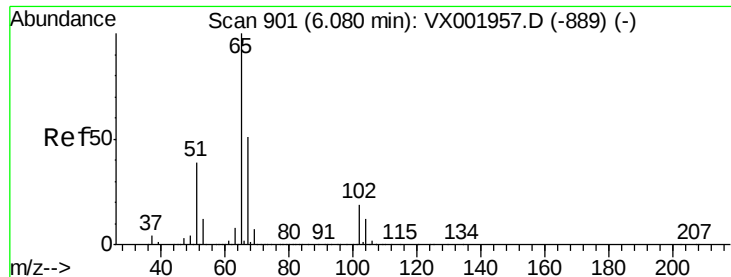
Tgt Ion: 83 Resp: 282358

Ion Ratio Lower Upper

83 100

85 65.0 51.9 77.9





#27

1,2-Dichloroethane-d4

Concen: 31.55 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

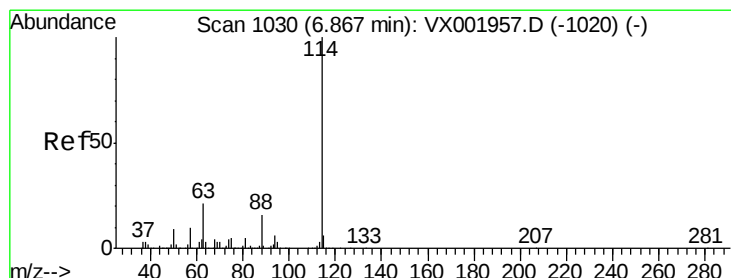
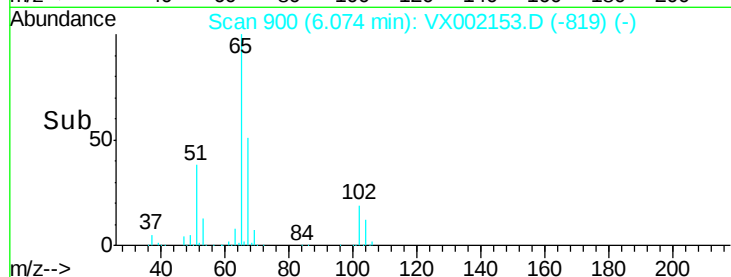
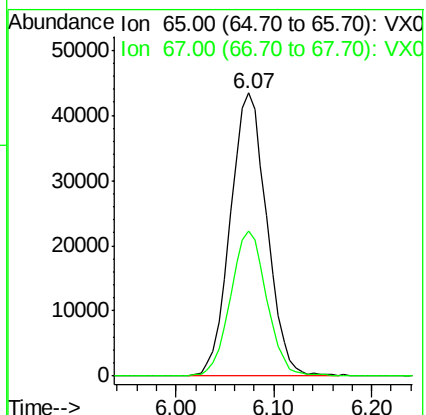
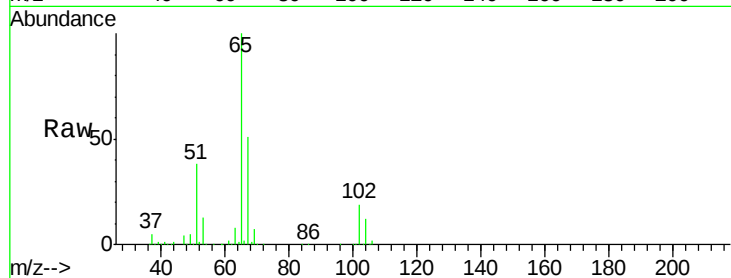
14B-2

Tgt Ion: 65 Resp: 112218

Ion Ratio Lower Upper

65 100

67 51.0 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

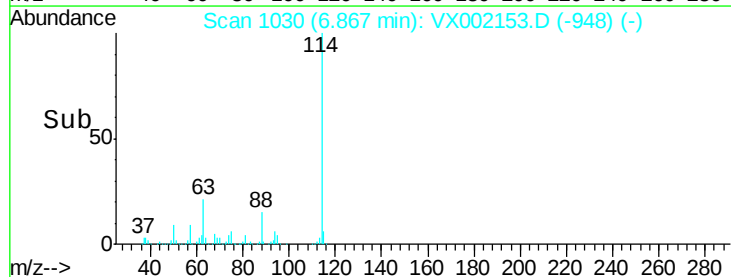
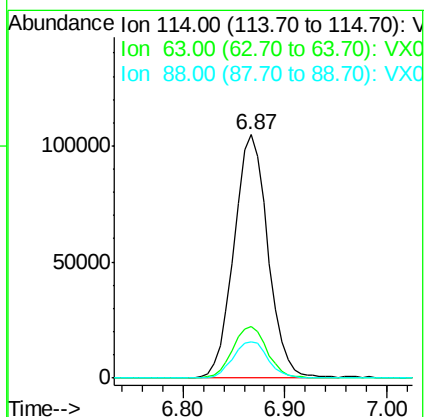
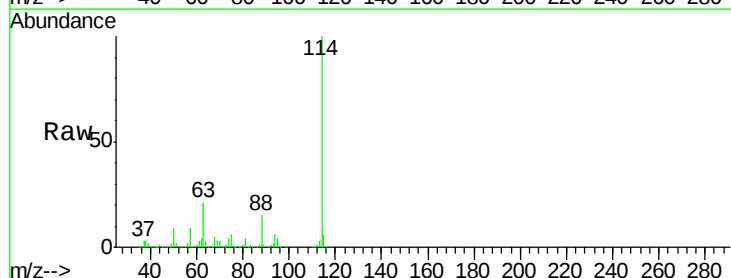
Tgt Ion: 114 Resp: 242694

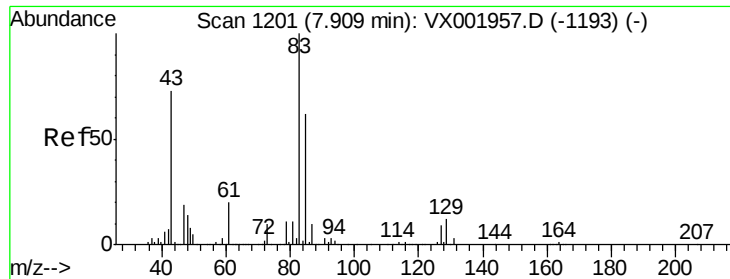
Ion Ratio Lower Upper

114 100

63 21.5 17.1 25.7

88 15.7 12.6 19.0





#41

Bromodichloromethane

Concen: 12.06 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

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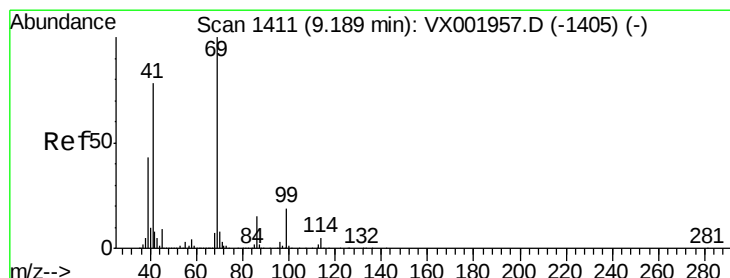
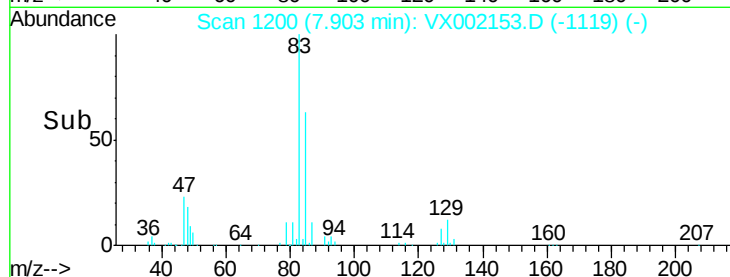
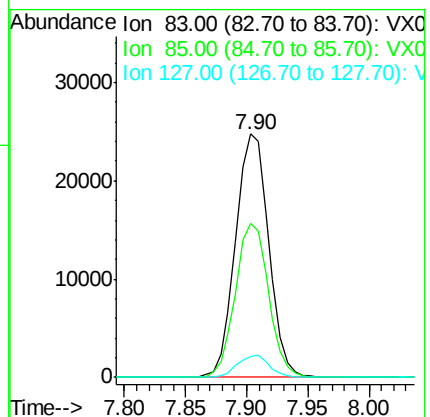
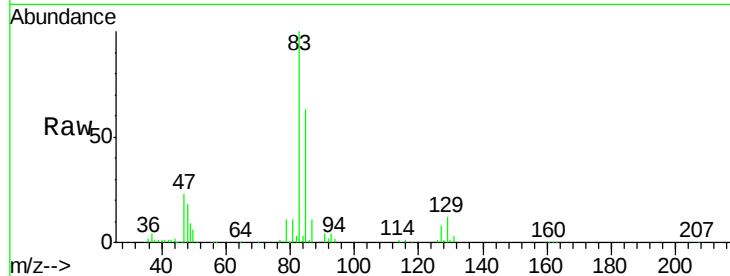
Tgt Ion: 83 Resp: 46536

Ion Ratio Lower Upper

83 100

85 63.1 49.8 74.8

127 8.4 7.3 10.9



#51

Ethyl methacrylate

Concen: 0.24 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.46 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

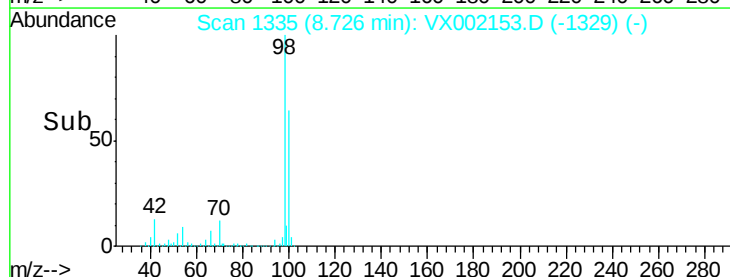
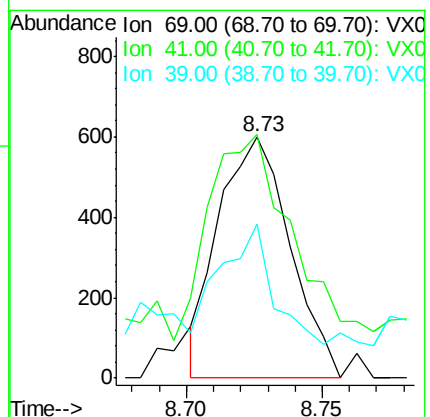
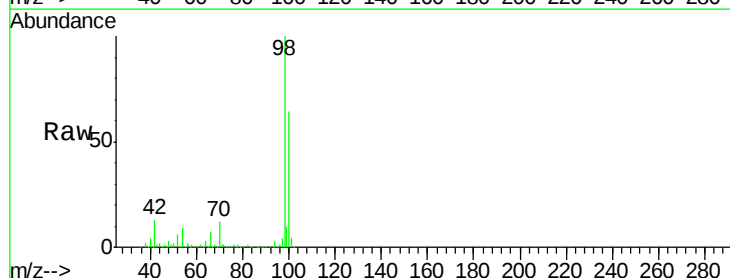
Tgt Ion: 69 Resp: 1090

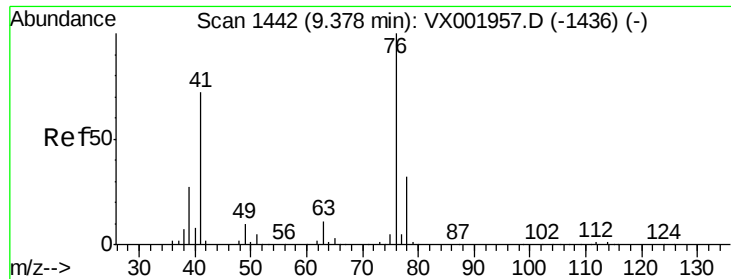
Ion Ratio Lower Upper

69 100

41 77.5 39.1 117.3

39 44.9 21.7 65.1





#52

1,3-Dichloropropane

Concen: 0.36 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. -0.32 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

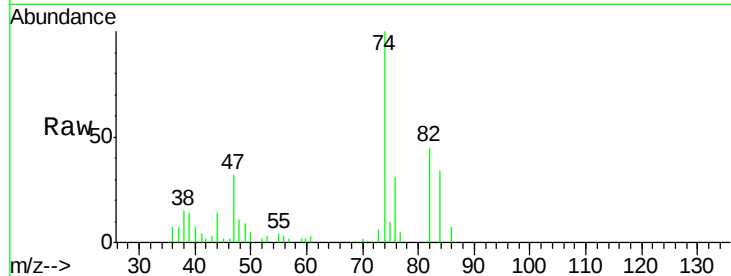
14B-2

Tgt Ion: 76 Resp: 1615

Ion Ratio Lower Upper

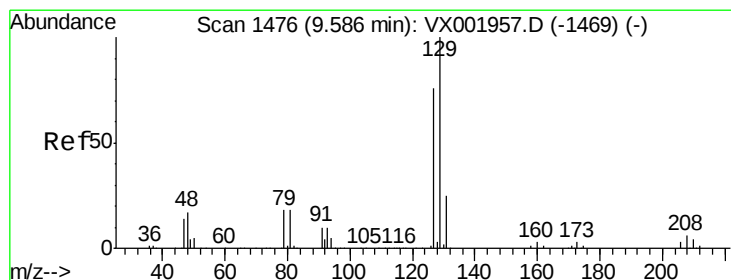
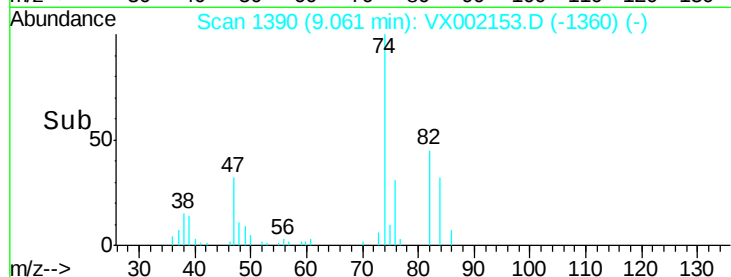
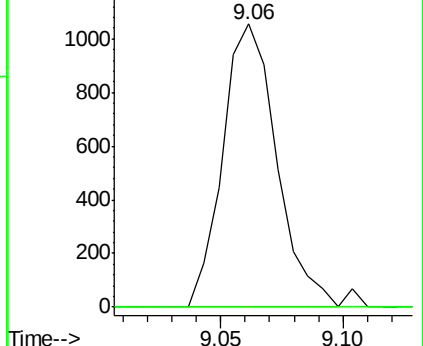
76 100

78 2.5 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#53

Dibromochloromethane

Concen: 1.22 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002153.D

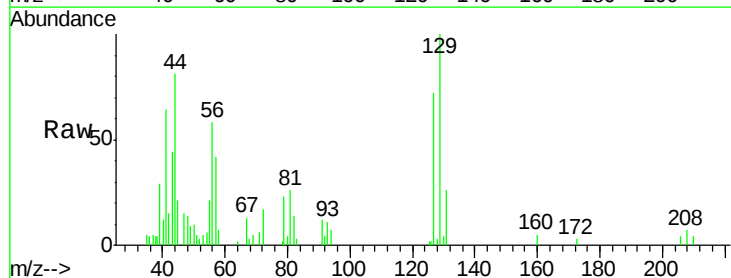
Acq: 30 May 2018 22:38

Tgt Ion: 129 Resp: 3995

Ion Ratio Lower Upper

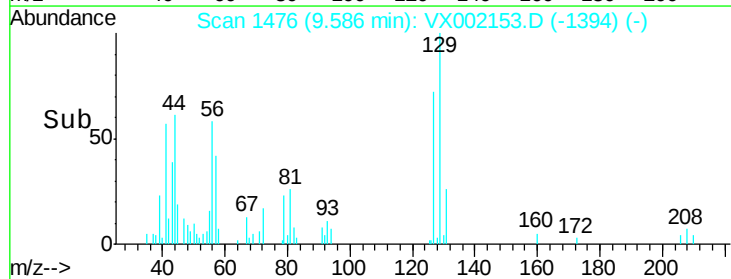
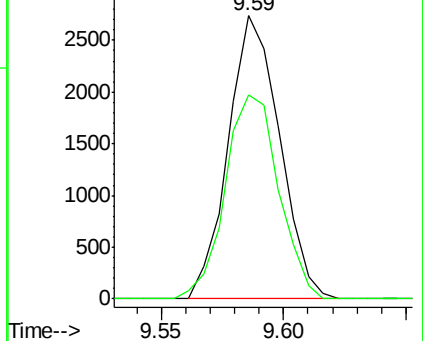
129 100

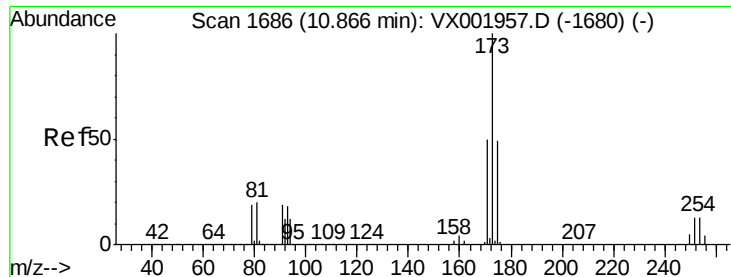
127 74.8 38.5 115.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#56

Bromoform

Concen: 0.36 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.28 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

14B-2

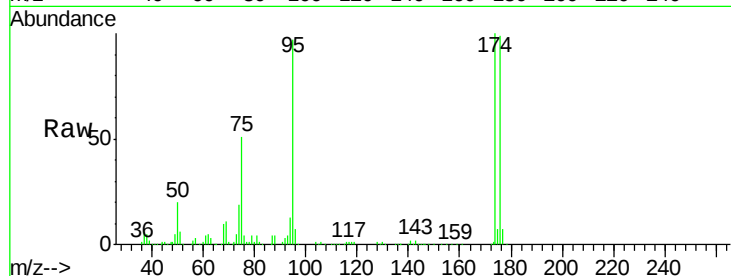
Tgt Ion:173 Resp: 1029

Ion Ratio Lower Upper

173 100

175 641.0 39.0 58.4#

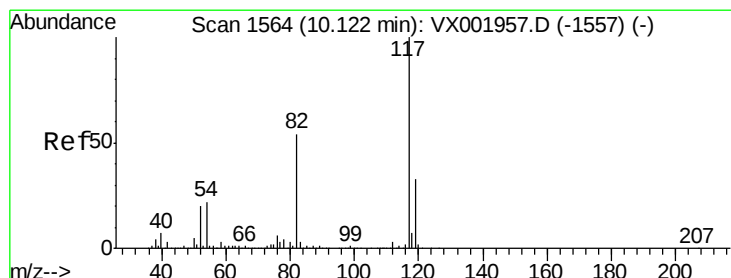
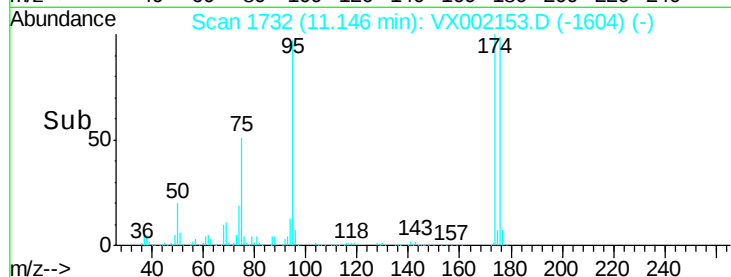
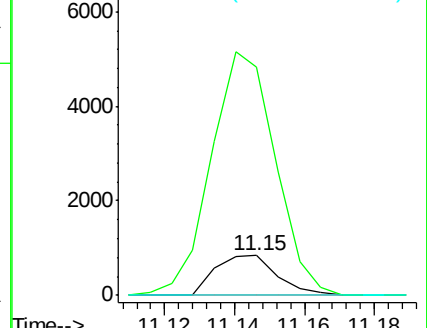
254 0.0 9.6 14.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

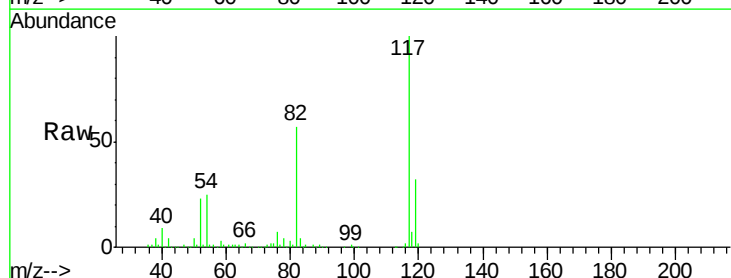
Tgt Ion:117 Resp: 212213

Ion Ratio Lower Upper

117 100

82 56.0 44.3 66.5

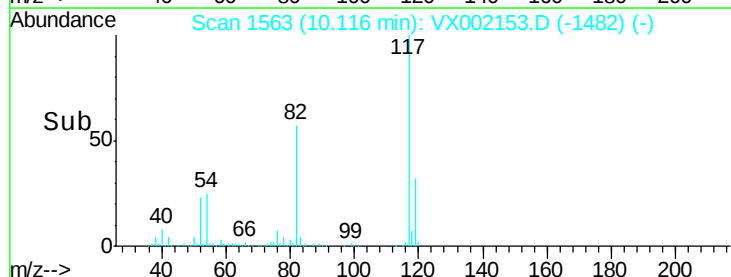
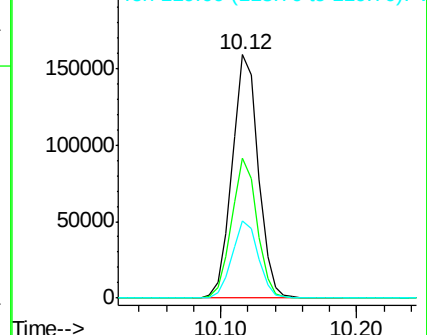
119 31.9 25.7 38.5

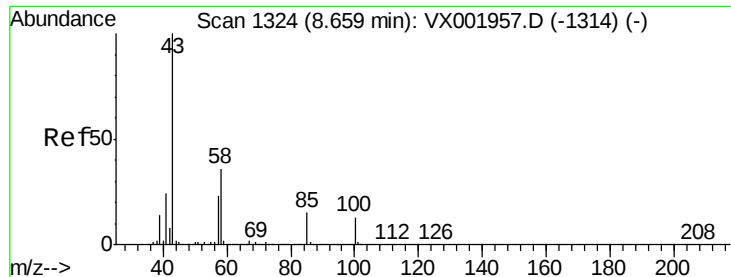


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

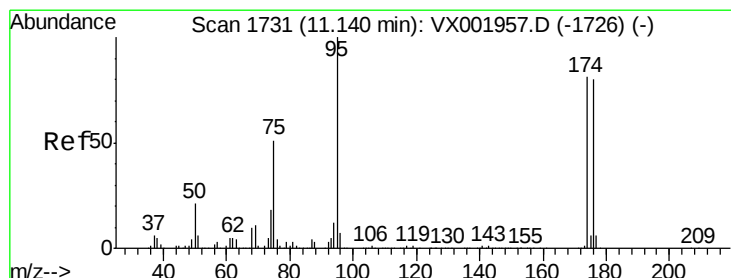
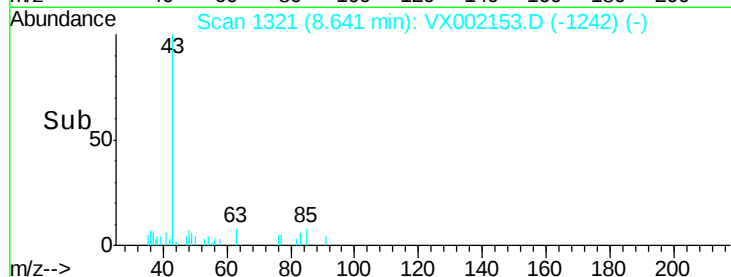
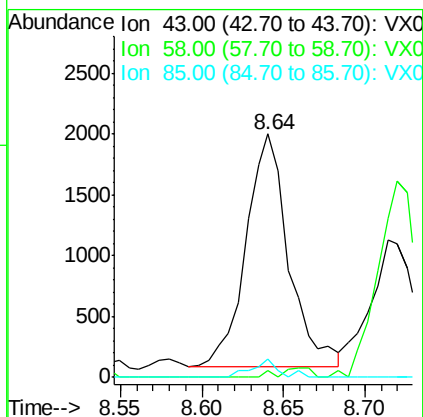
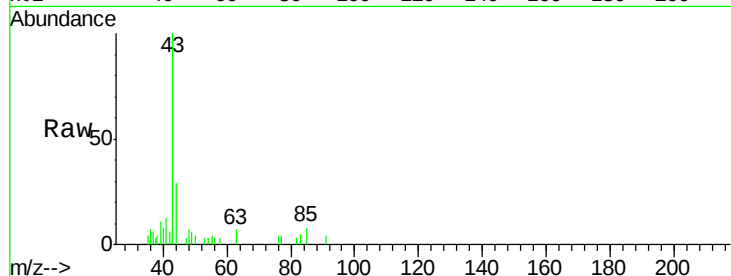




#58
 4-Methyl-2-Pentanone
 Concen: 0.75 ug/l
 RT: 8.64 min Scan# 1321
 Delta R.T. -0.02 min
 Lab File: VX002153.D
 Acq: 30 May 2018 22:38

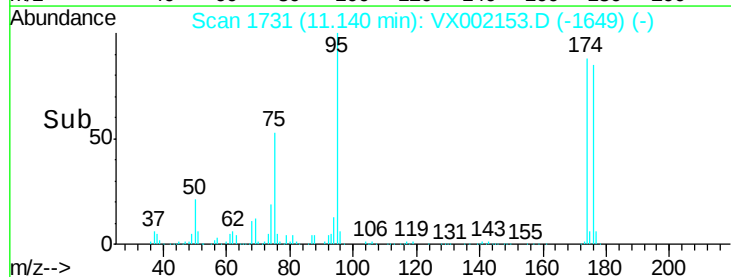
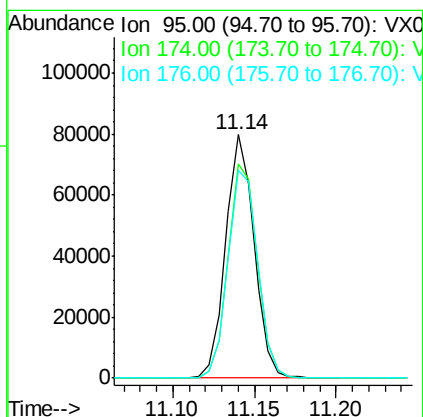
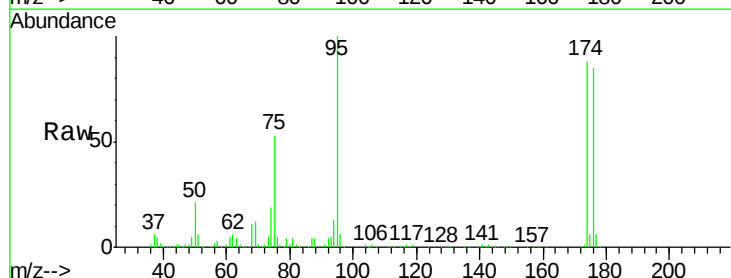
Instrument :
 MSVOA_X
 ClientSampled :
 14B-2

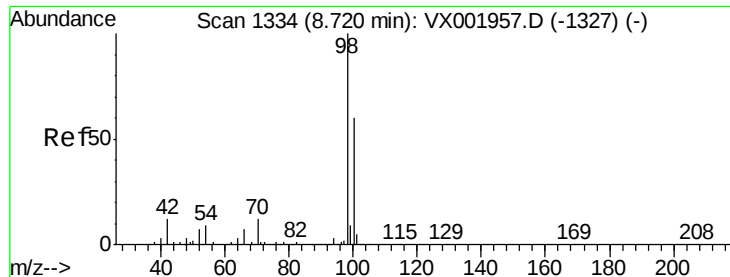
Tgt Ion: 43 Resp: 3481
 Ion Ratio Lower Upper
 43 100
 58 0.6 28.2 42.4#
 85 4.3 12.4 18.6#



#60
 4-Bromofluorobenzene
 Concen: 26.62 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX002153.D
 Acq: 30 May 2018 22:38

Tgt Ion: 95 Resp: 96689
 Ion Ratio Lower Upper
 95 100
 174 90.3 71.8 107.6
 176 89.2 70.1 105.1





#63

Toluene-d8

Concen: 30.65 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

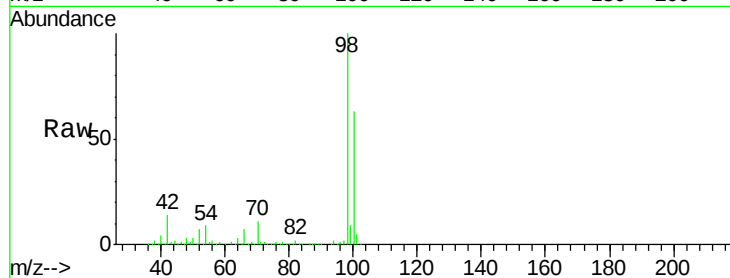
14B-2

Tgt Ion: 98 Resp: 289888

Ion Ratio Lower Upper

98 100

100 62.9 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

200000

150000

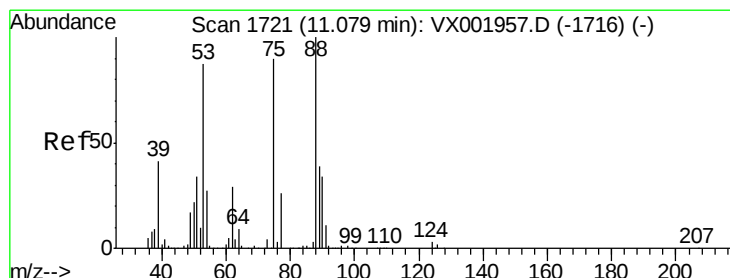
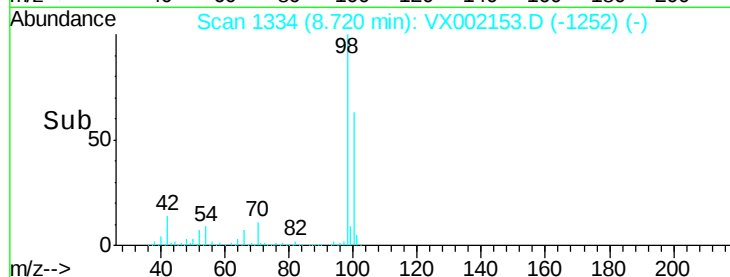
100000

50000

0

8.65 8.70 8.75 8.80 8.85

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 38.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002153.D

Acq: 30 May 2018 22:38

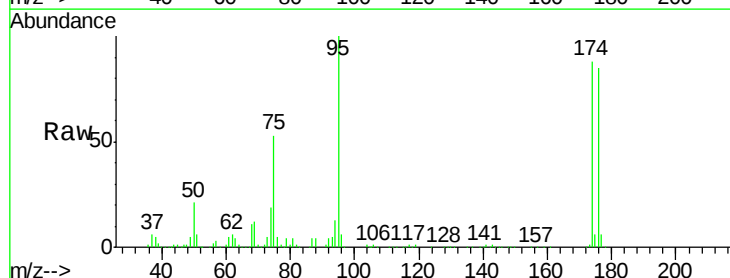
Tgt Ion: 75 Resp: 51151

Ion Ratio Lower Upper

75 100

53 0.1 48.3 144.9#

89 0.0 21.8 65.4#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

11.14

50000

40000

30000

20000

10000

0

11.10 11.15 11.20

Time-->

