

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX093019\
 Data File : VX012708.D
 Acq On : 30 Sep 2019 16:19
 Operator : JC/SP
 Sample : K5081-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I-20190926

Quant Time: Oct 01 03:47:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	164291	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283514	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	234184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	83995	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116513	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	5.49	113	86617	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	8.71	98	335501	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
62) 4-Bromofluorobenzene	11.14	95	106095	41.50	ug/l	0.00
Spiked Amount			Recovery	=	83.00%	

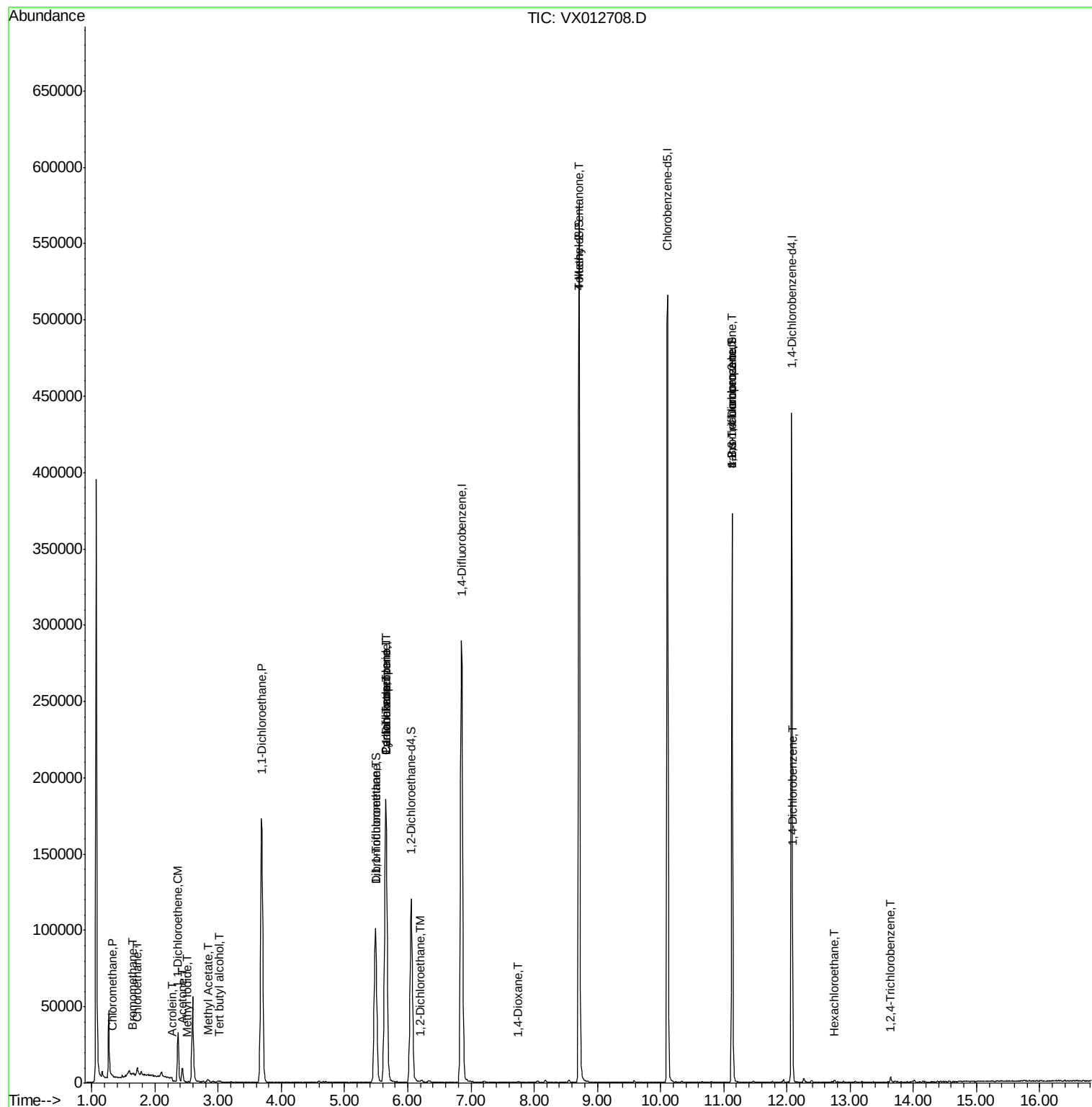
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	565	0.266	ug/l #	75
5) Bromomethane	1.65	94	343	0.414	ug/l #	69
6) Chloroethane	1.72	64	3457	2.431	ug/l #	69
10) Methyl Iodide	2.52	142	26	4.965	ug/l #	35
11) Tert butyl alcohol	3.01	59	1083	1.812	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	10880	6.159	ug/l	99
13) Acrolein	2.28	56	101	10.524	ug/l #	1
16) Acetone	2.43	43	10356	8.172	ug/l	95
18) Methyl Acetate	2.84	43	959	0.321	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	196557	53.398	ug/l	99
31) Cyclohexane	5.65	56	4136	1.242	ug/l #	1
32) 1,1,1-Trichloroethane	5.48	97	1795	0.538	ug/l #	50
36) 1,1-Dichloropropene	5.65	75	14359	5.254	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18542	6.679	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	715	0.234	ug/l #	75
49) 1,4-Dioxane	7.75	88	315	5.421	ug/l	94
51) 4-Methyl-2-Pentanone	8.70	43	1641	0.498	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	55607	25.027	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	55607	71.722	ug/l #	8
88) 1,4-Dichlorobenzene	12.09	146	1493	0.530	ug/l #	36
90) Hexachloroethane	12.74	117	483	0.466	ug/l #	17
93) 1,2,4-Trichlorobenzene	13.64	180	942	0.554	ug/l	96

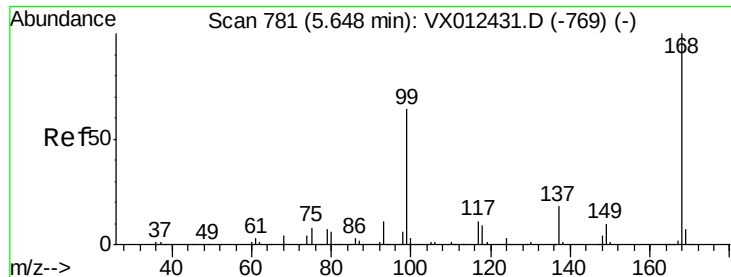
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX093019\
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Quant Time: Oct 01 03:47:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

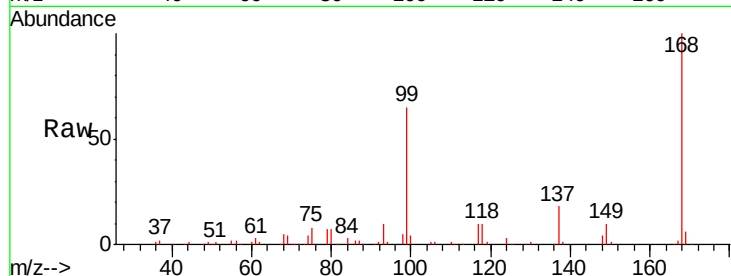
SA-PZ123I-20190926

Tgt Ion: 168 Resp: 164291

Ion Ratio Lower Upper

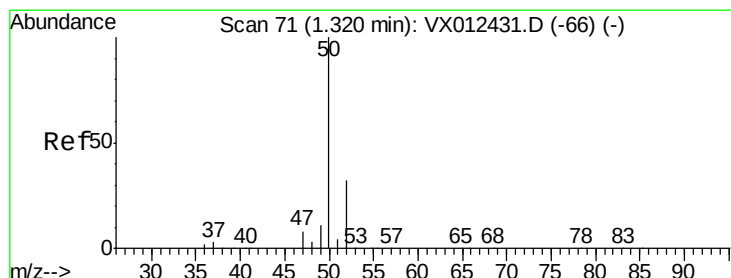
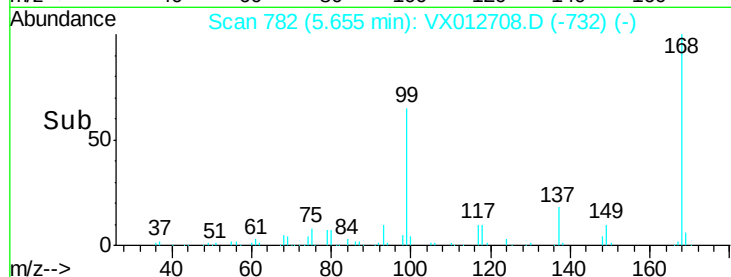
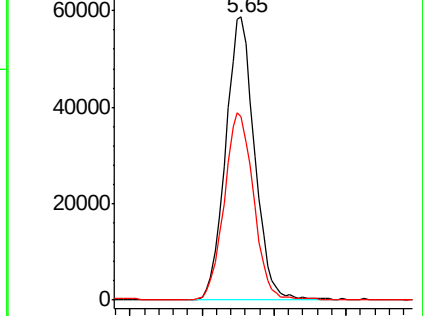
168 100

99 64.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012708.D

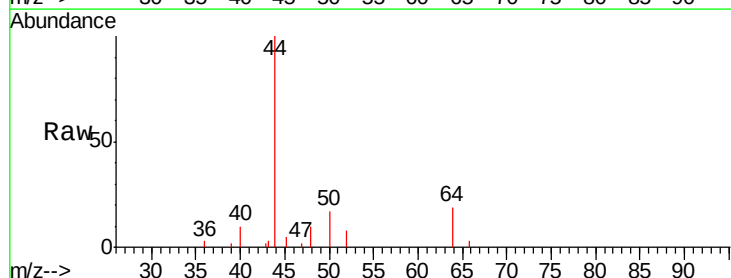
Acq: 30 Sep 2019 16:19

Tgt Ion: 50 Resp: 565

Ion Ratio Lower Upper

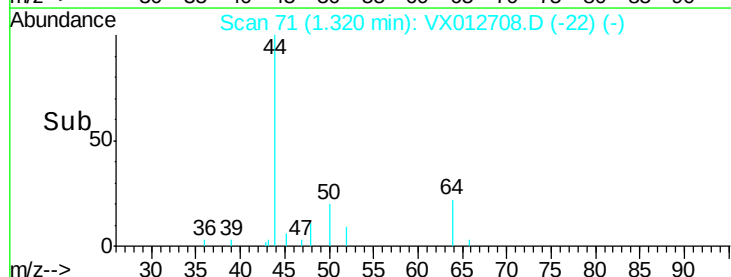
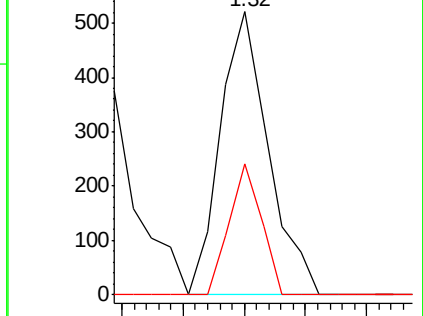
50 100

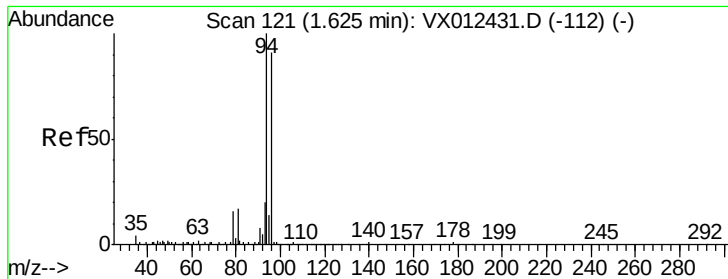
52 46.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.414 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

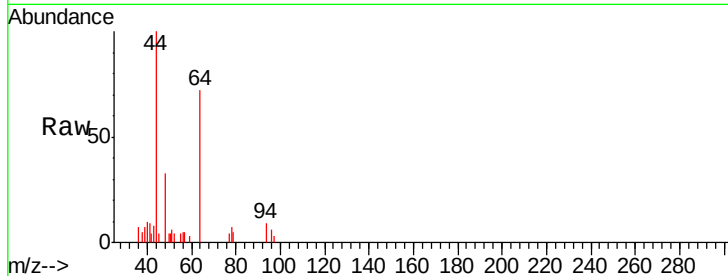
SA-PZ123I-20190926

Tgt Ion: 94 Resp: 343

Ion Ratio Lower Upper

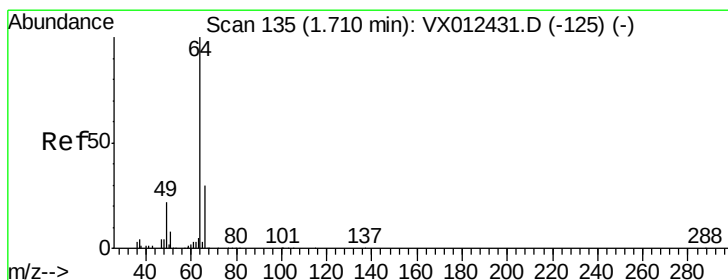
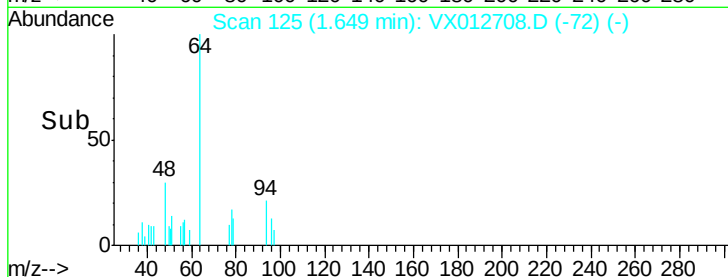
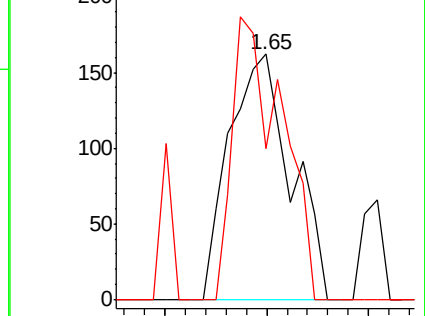
94 100

96 61.7 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.431 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012708.D

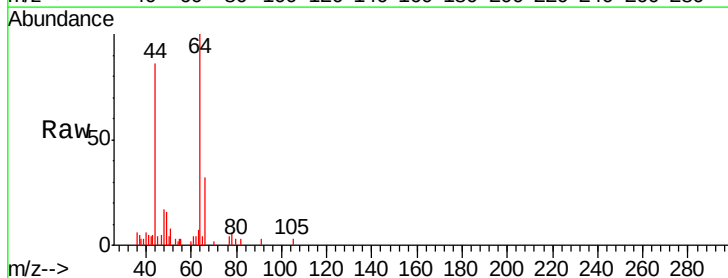
Acq: 30 Sep 2019 16:19

Tgt Ion: 64 Resp: 3457

Ion Ratio Lower Upper

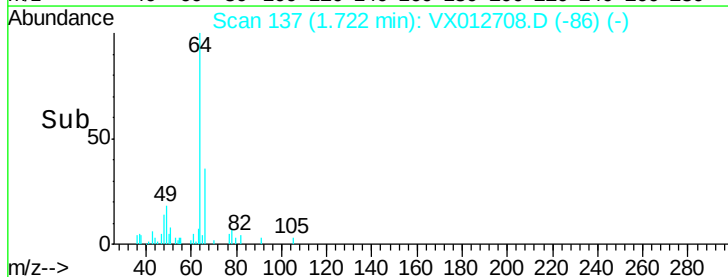
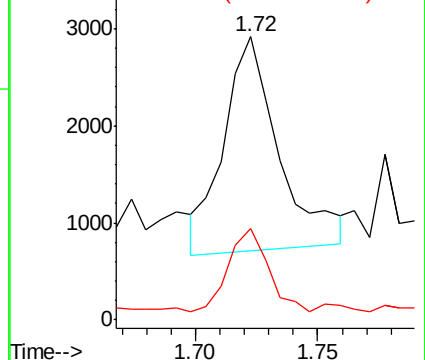
64 100

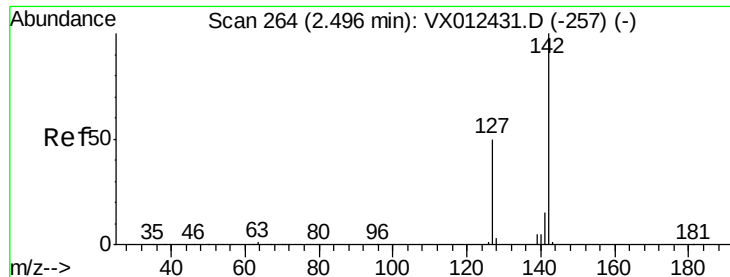
66 46.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 4.965 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ123I-20190926

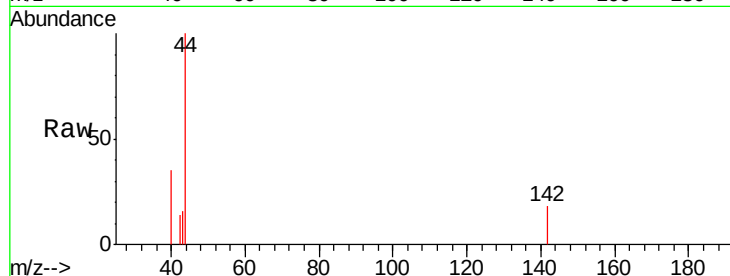
Tgt Ion: 142 Resp: 26

Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

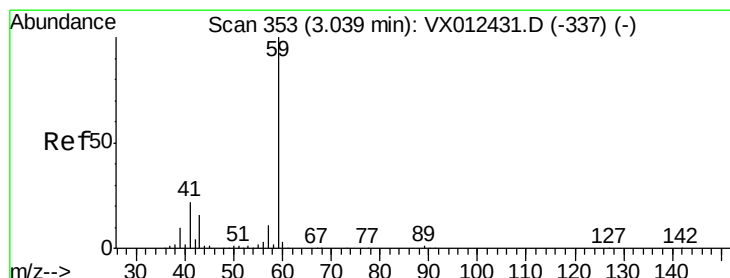
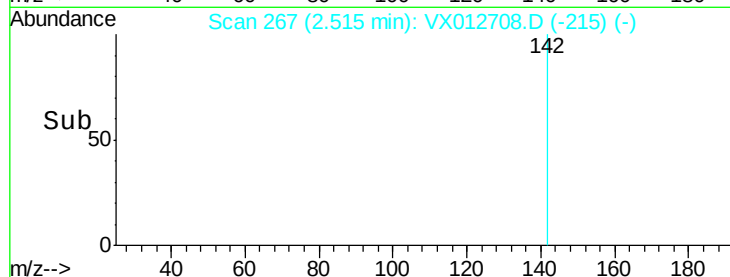
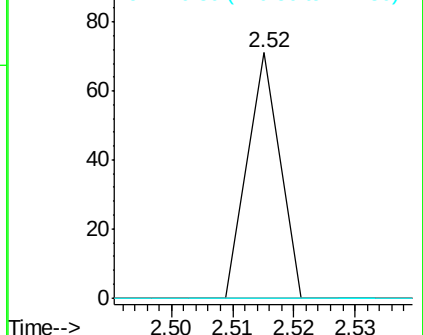
141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.812 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX012708.D

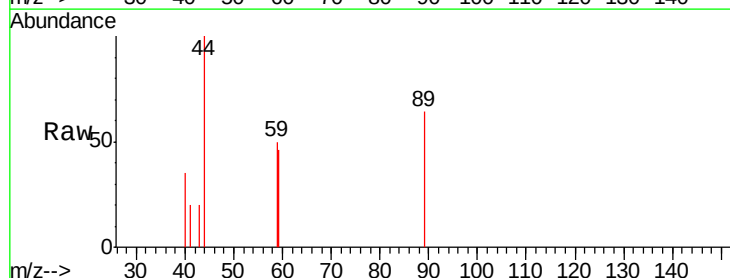
Acq: 30 Sep 2019 16:19

Tgt Ion: 59 Resp: 1083

Ion Ratio Lower Upper

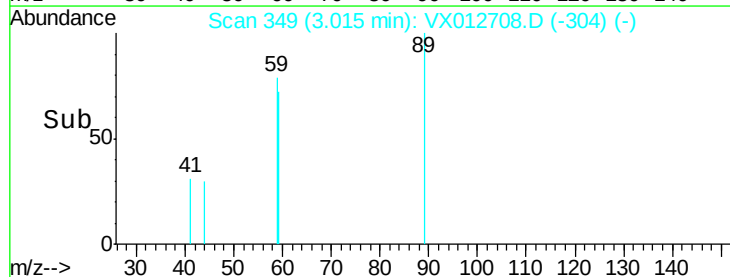
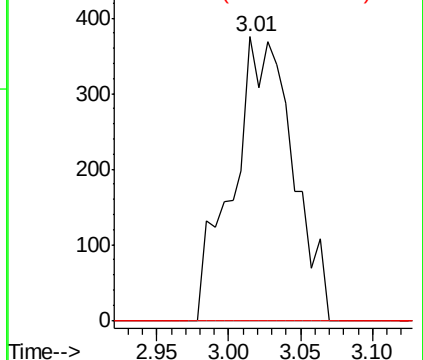
59 100

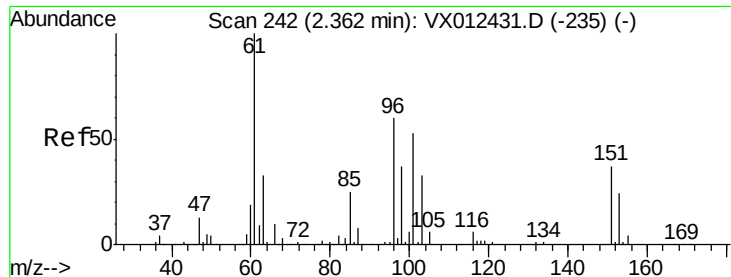
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

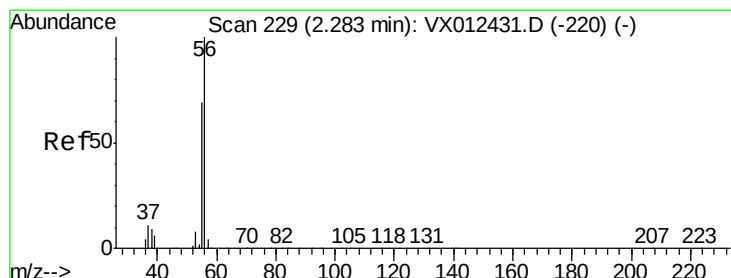
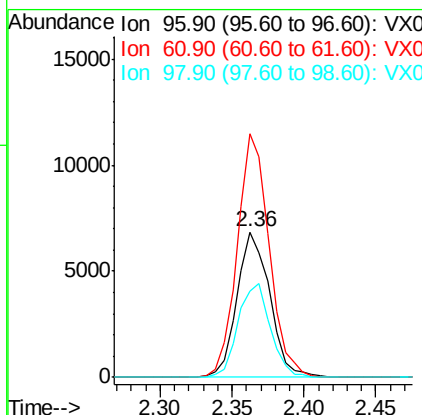
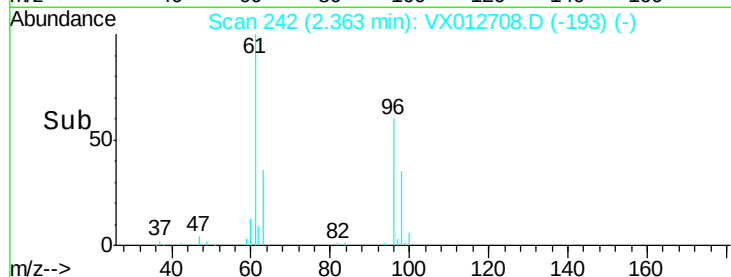
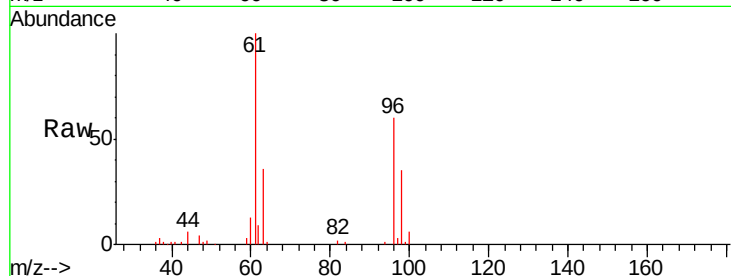




#12
 1,1-Dichloroethene
 Concen: 6.159 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

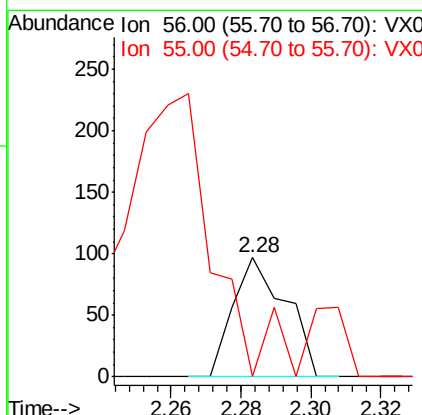
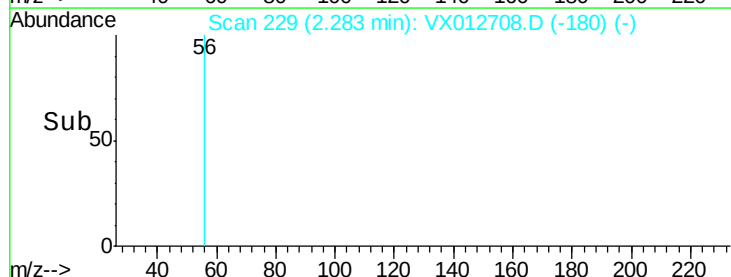
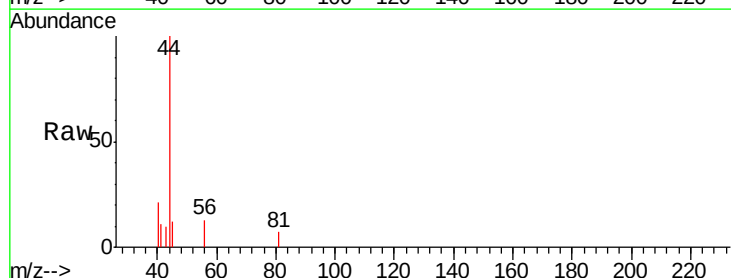
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I-20190926

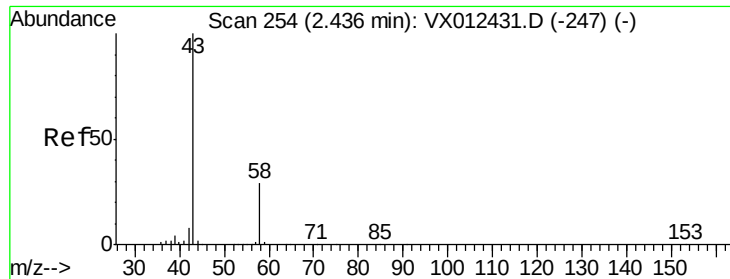
Tgt Ion: 96 Resp: 10880
 Ion Ratio Lower Upper
 96 100
 61 167.4 133.8 200.6
 98 58.9 49.9 74.9



#13
 Acrolein
 Concen: 10.524 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

Tgt Ion: 56 Resp: 101
 Ion Ratio Lower Upper
 56 100
 55 369.3 55.8 83.8#





#16

Acetone

Concen: 8.172 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

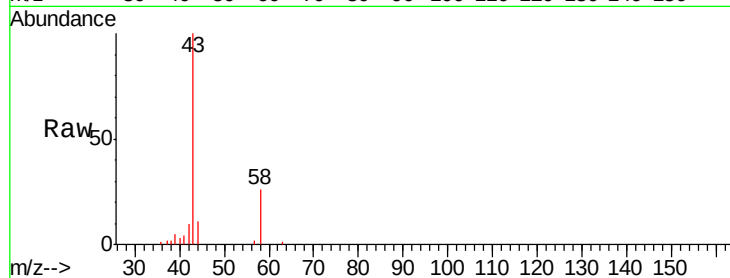
SA-PZ123I-20190926

Tgt Ion: 43 Resp: 10356

Ion Ratio Lower Upper

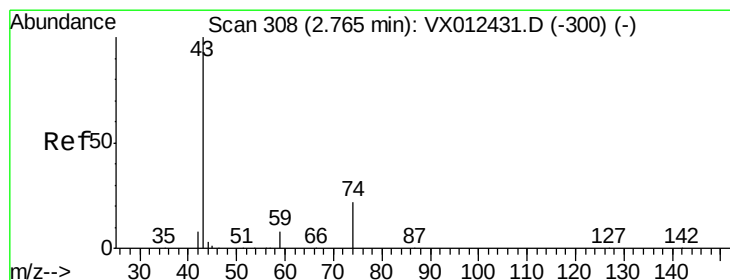
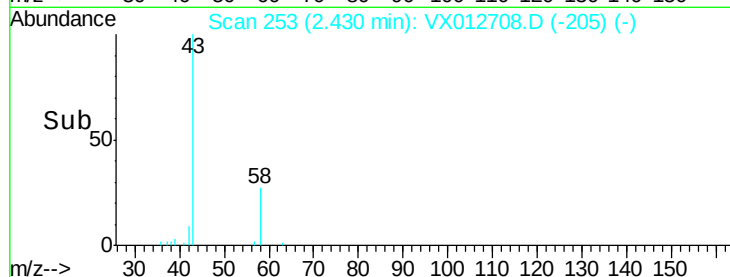
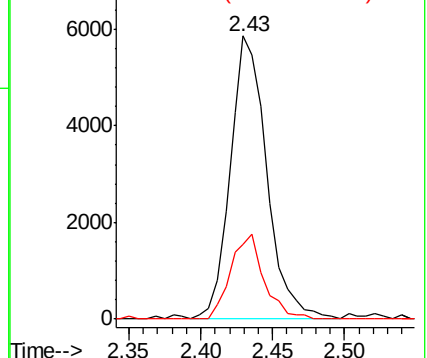
43 100

58 26.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.321 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.07 min

Lab File: VX012708.D

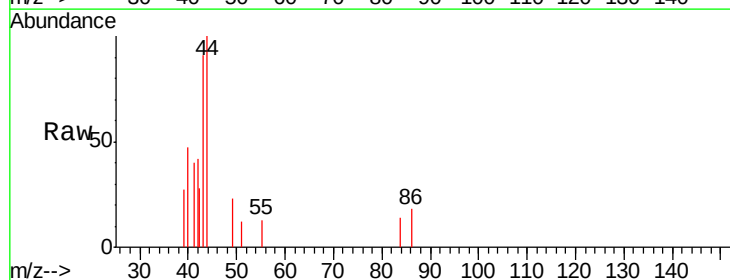
Acq: 30 Sep 2019 16:19

Tgt Ion: 43 Resp: 959

Ion Ratio Lower Upper

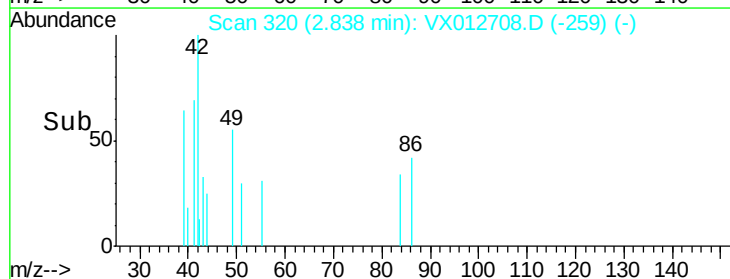
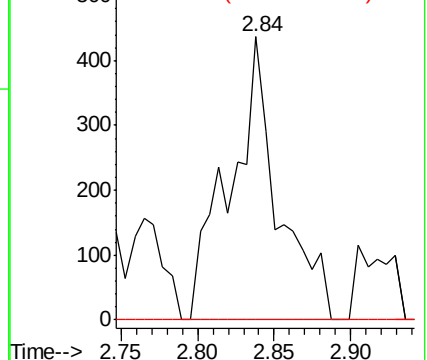
43 100

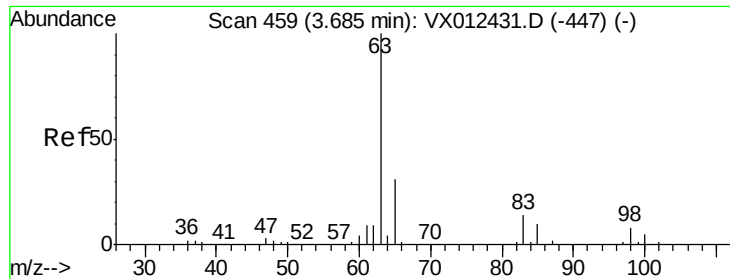
74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

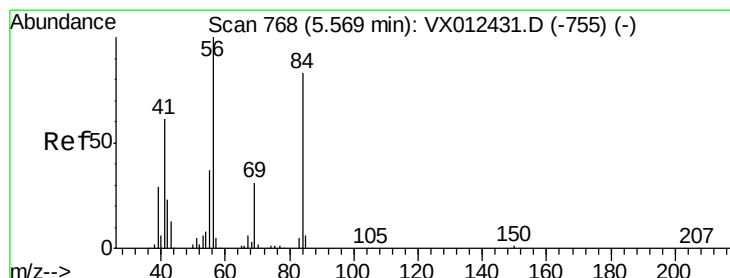
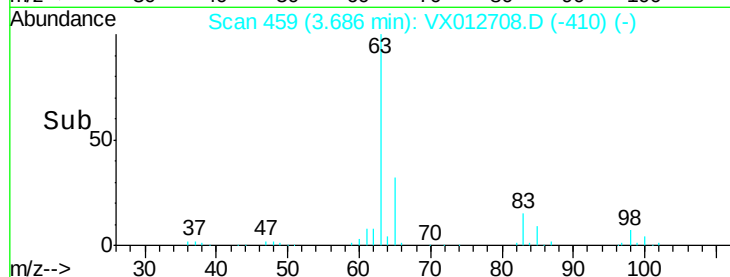
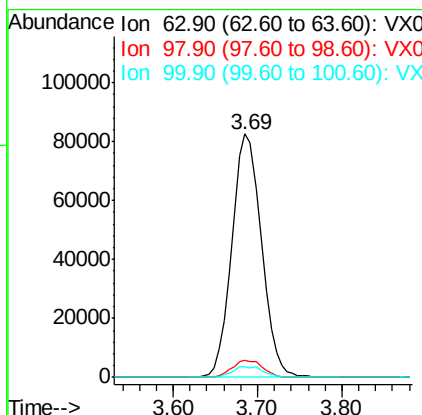
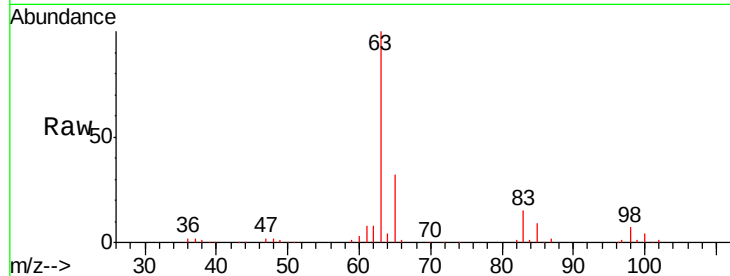




#24
 1,1-Dichloroethane
 Concen: 53.398 ug/l
 RT: 3.69 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

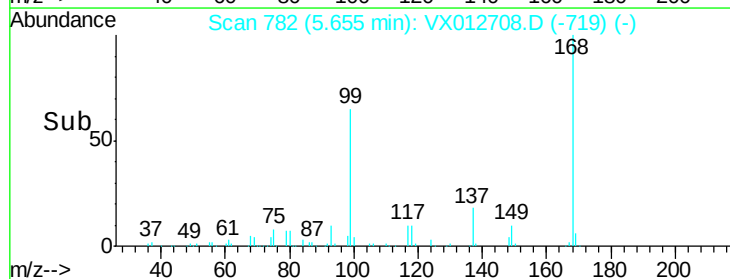
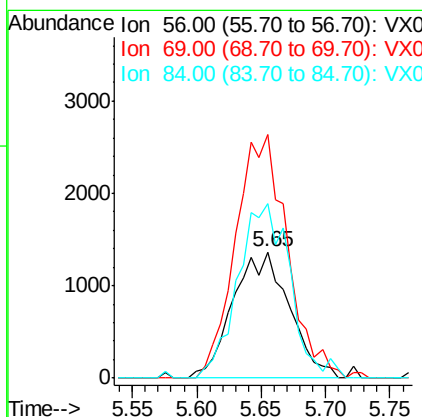
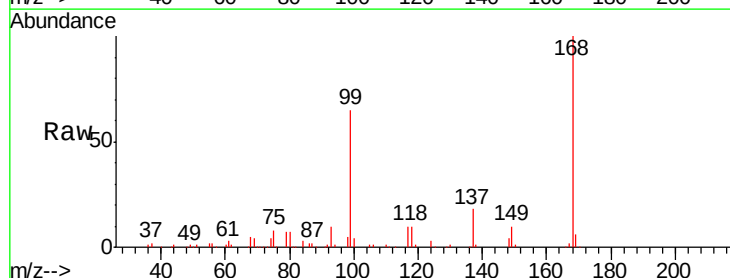
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ1231-20190926

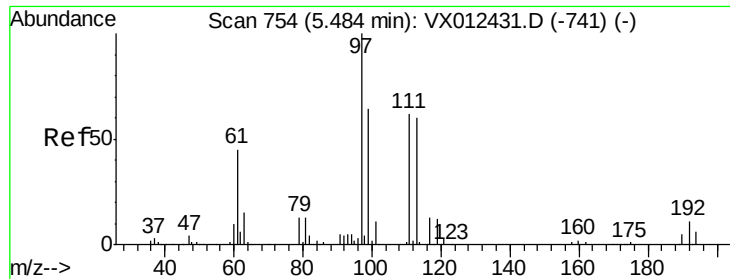
Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.9	11.7
100	4.4	2.3	6.9



#31
 Cyclohexane
 Concen: 1.242 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.09 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

Tgt Ion	Ratio	Lower	Upper
56	100		
69	193.4	25.0	37.6#
84	138.2	66.4	99.6#





#32

1,1,1-Trichloroethane

Concen: 0.538 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ123I-20190926

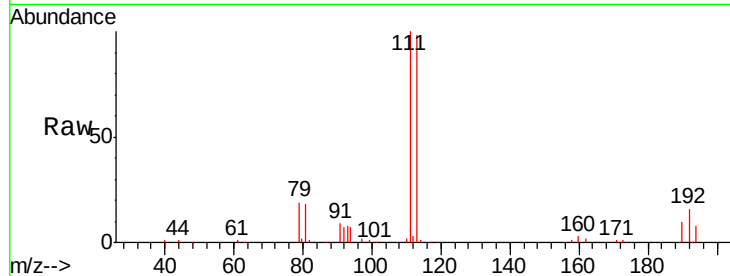
Tgt Ion: 97 Resp: 1795

Ion Ratio Lower Upper

97 100

99 0.0 51.3 76.9#

61 41.9 36.1 54.1

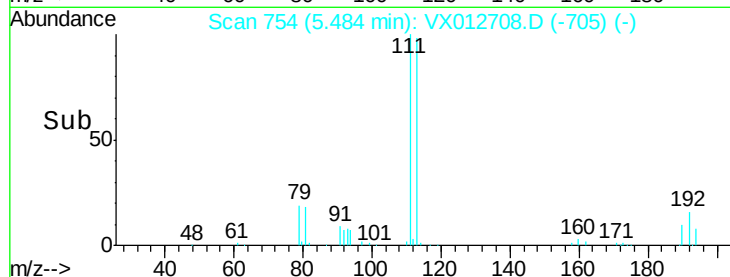


Abundance Ion 96.90 (96.60 to 97.60): VX0

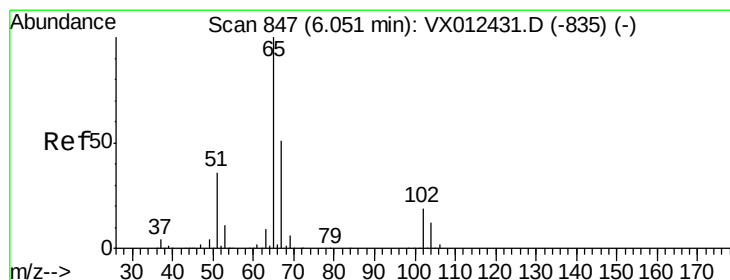
Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

5.48



Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.701 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012708.D

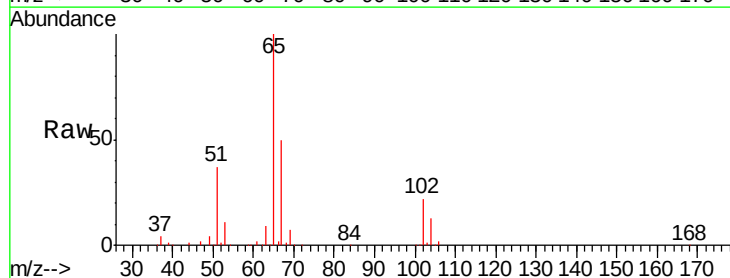
Acq: 30 Sep 2019 16:19

Tgt Ion: 65 Resp: 116513

Ion Ratio Lower Upper

65 100

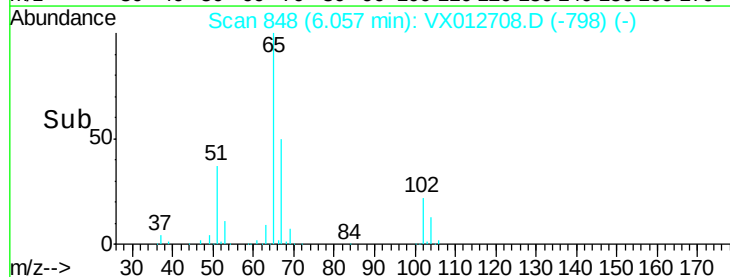
67 50.8 0.0 101.2



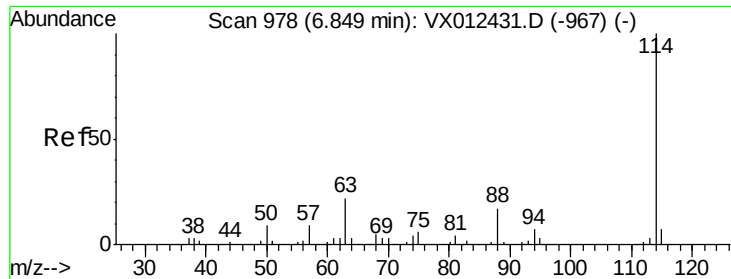
Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06



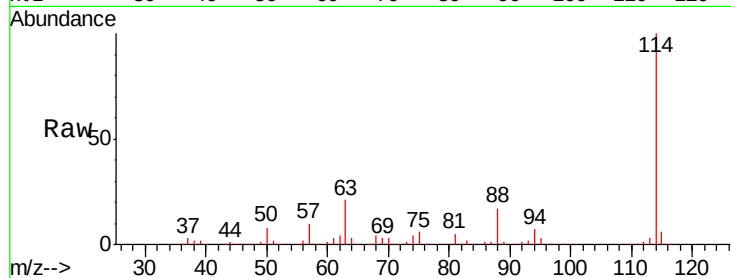
Time-->



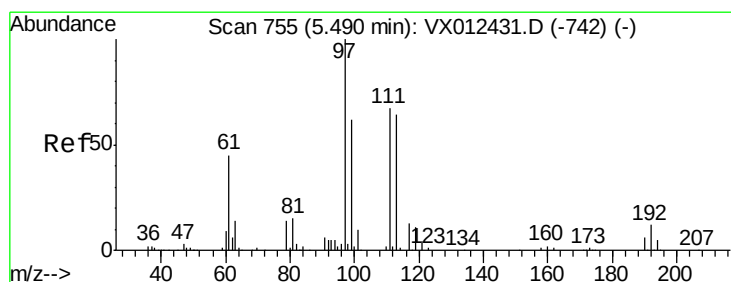
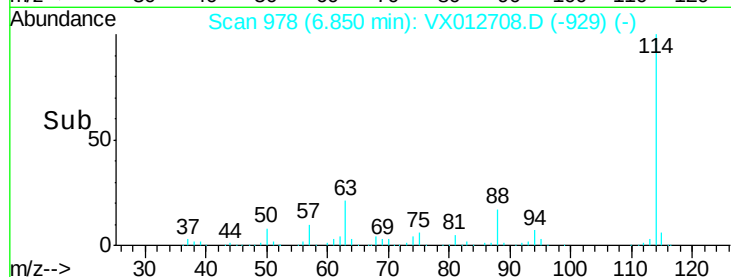
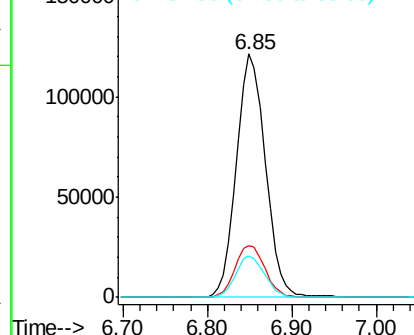
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ123I-20190926

Tgt Ion:114 Resp: 283514
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.2
88 17.0 0.0 33.2

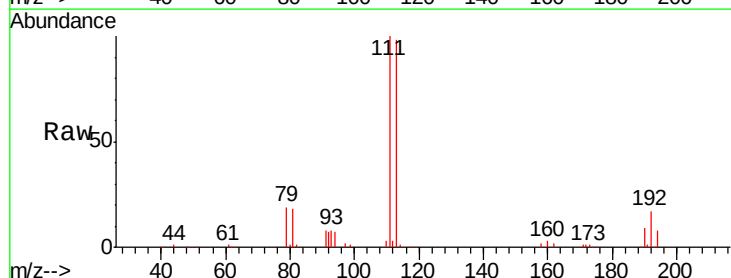


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

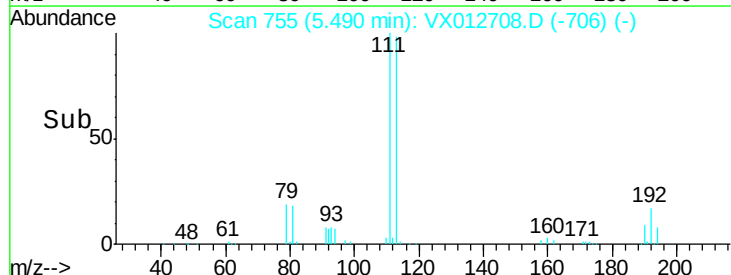
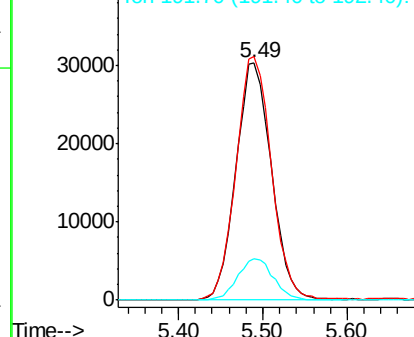


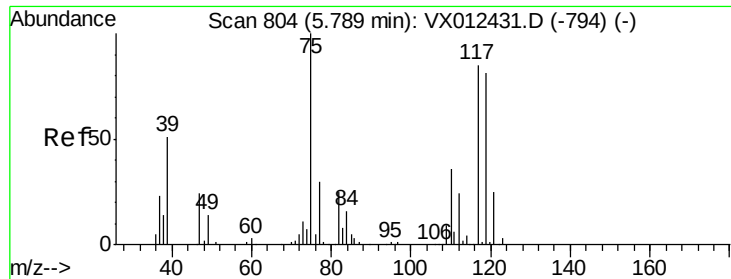
#35
Dibromofluoromethane
Concen: 51.300 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

Tgt Ion:113 Resp: 86617
Ion Ratio Lower Upper
113 100
111 102.4 83.4 125.2
192 17.5 14.4 21.6



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

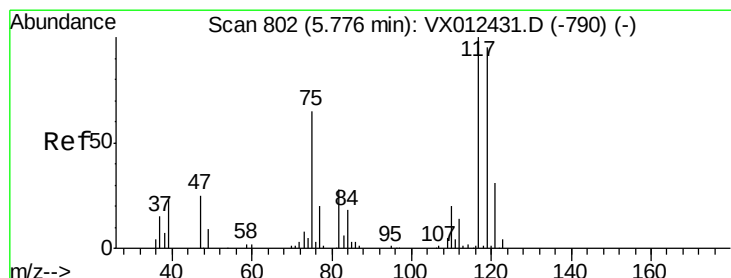
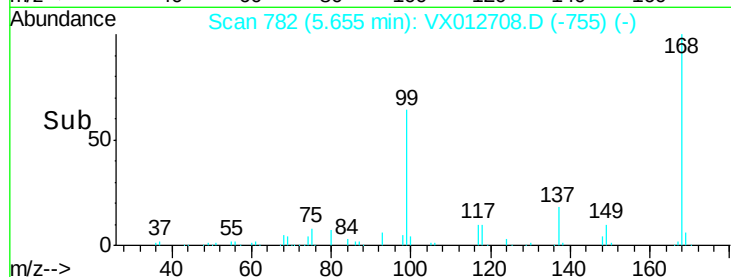
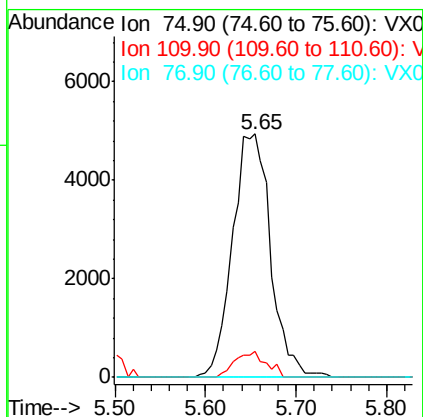
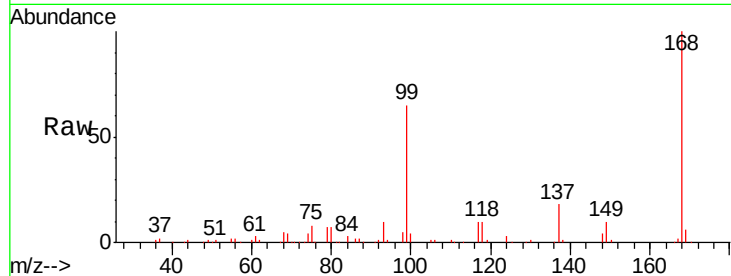




#36
 1,1-Dichloropropene
 Concen: 5.254 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

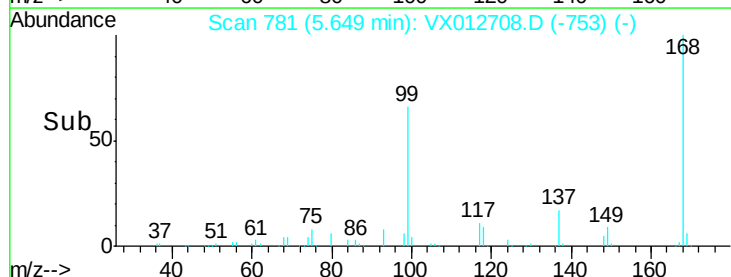
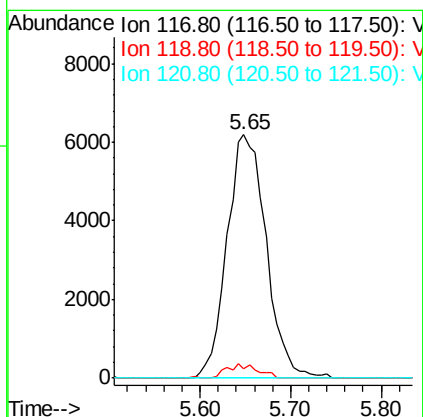
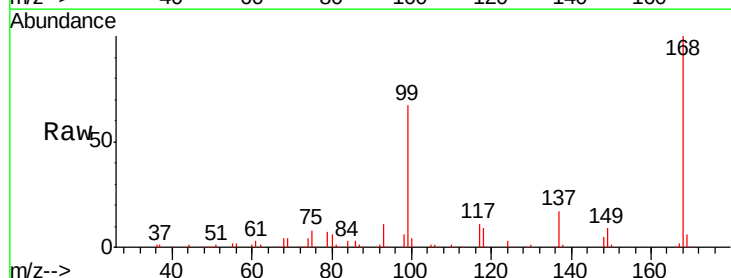
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I-20190926

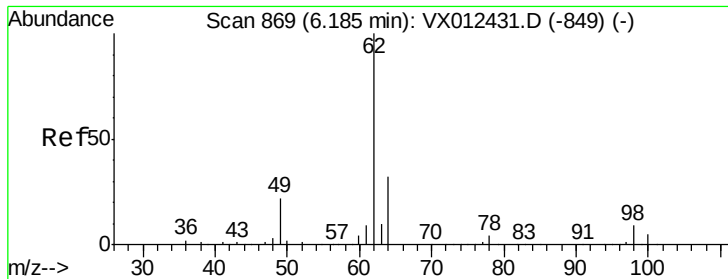
Tgt Ion: 75 Resp: 14359
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.679 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

Tgt Ion: 117 Resp: 18542
 Ion Ratio Lower Upper
 117 100
 119 4.0 75.7 113.5#
 121 0.0 24.2 36.4#

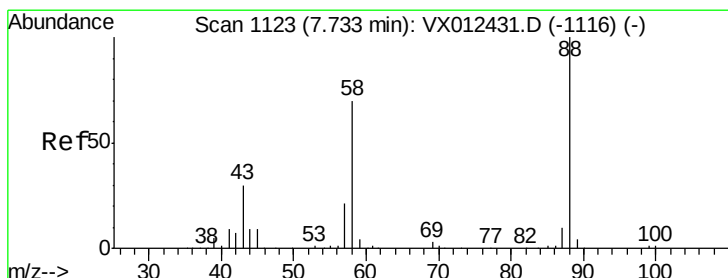
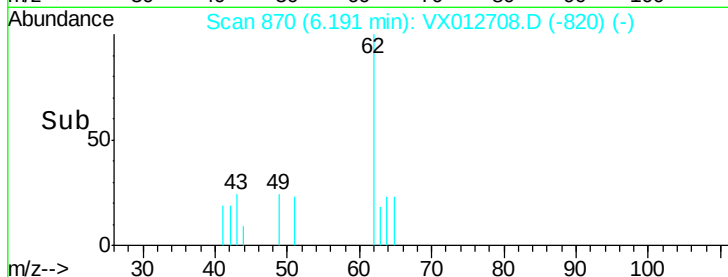
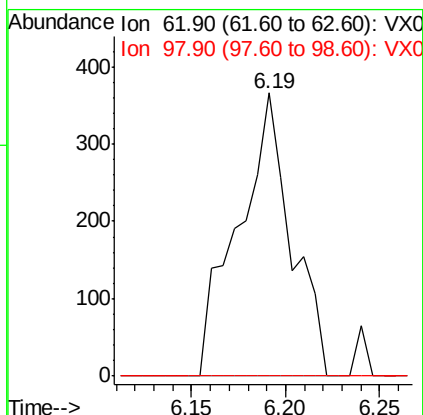
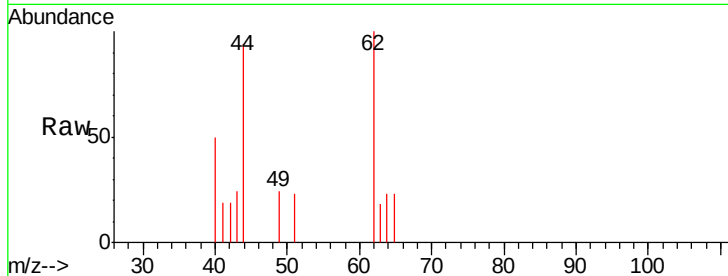




#42
 1,2-Dichloroethane
 Concen: 0.234 ug/l
 RT: 6.19 min Scan# 870
 Delta R.T. 0.01 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

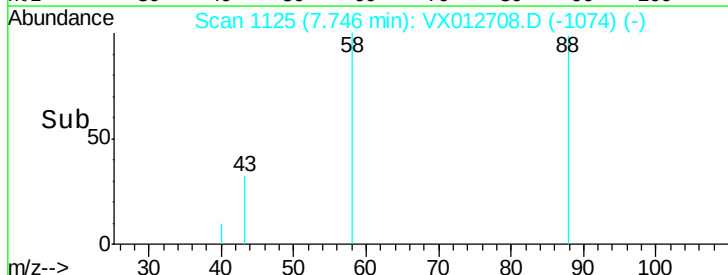
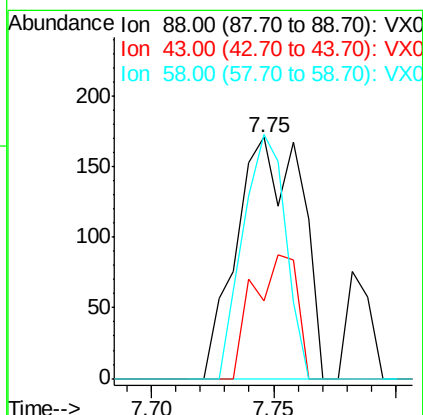
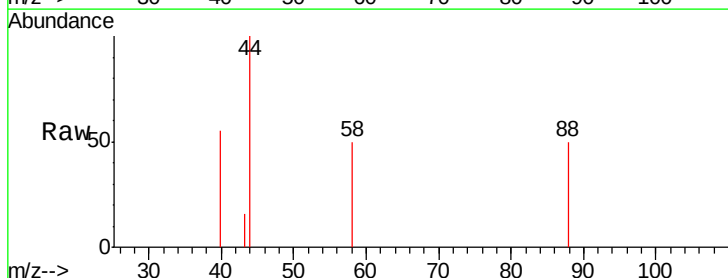
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I-20190926

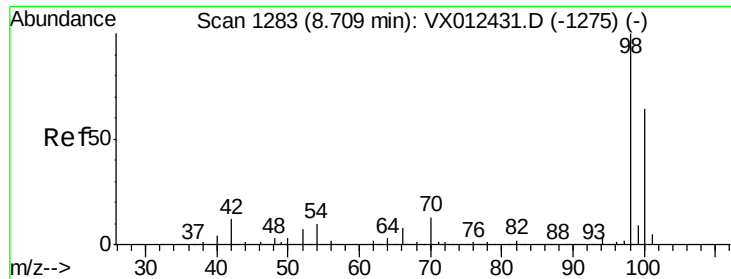
Tgt Ion: 62 Resp: 715
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.8



#49
 1,4-Dioxane
 Concen: 5.421 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

Tgt Ion: 88 Resp: 315
 Ion Ratio Lower Upper
 88 100
 43 34.6 29.4 44.0
 58 66.3 57.5 86.3

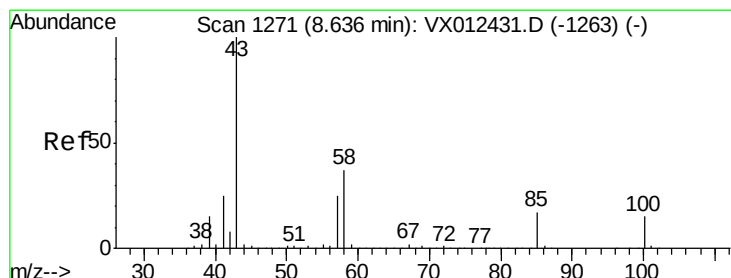
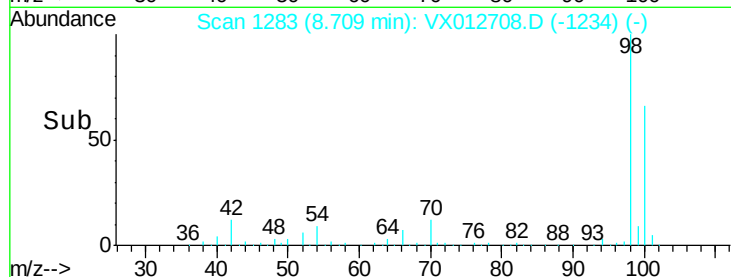
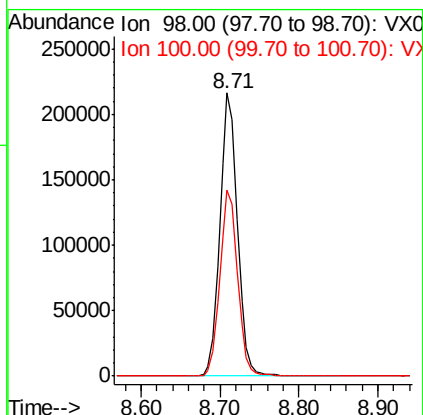
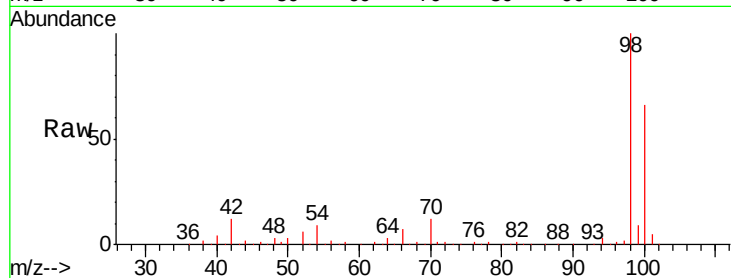




#50
Toluene-d8
Concen: 51.597 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

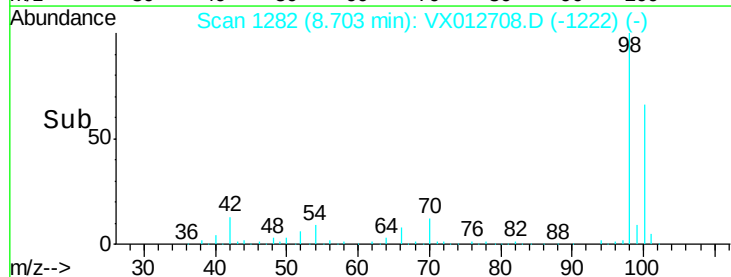
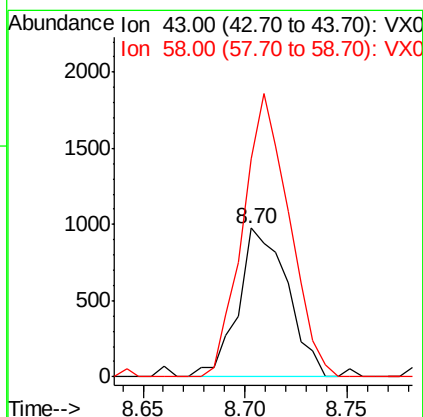
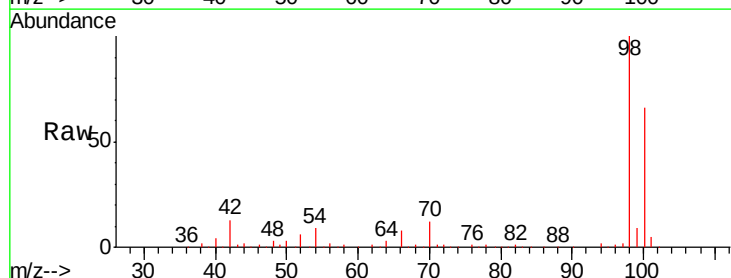
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ123I-20190926

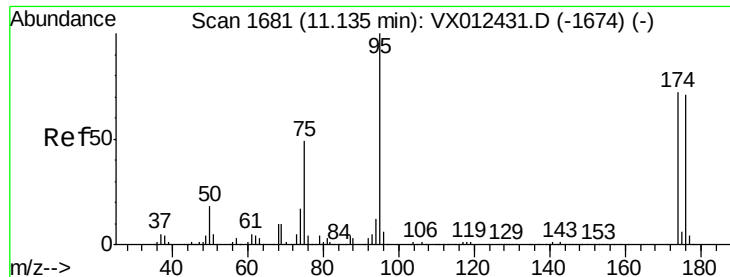
Tgt Ion: 98 Resp: 335501
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.498 ug/l
RT: 8.70 min Scan# 1282
Delta R.T. 0.07 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

Tgt Ion: 43 Resp: 1641
Ion Ratio Lower Upper
43 100
58 179.5 29.8 44.6#





#62

4-Bromofluorobenzene

Concen: 41.496 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ123I-20190926

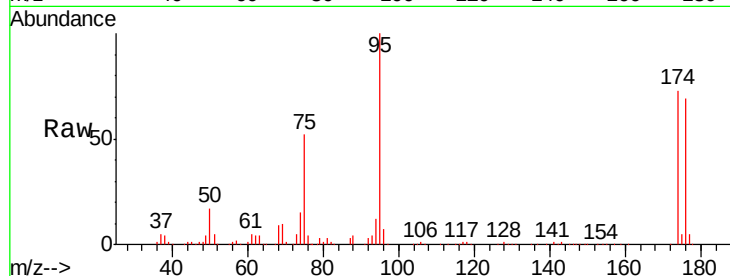
Tgt Ion: 95 Resp: 106095

Ion Ratio Lower Upper

95 100

174 69.8 0.0 140.0

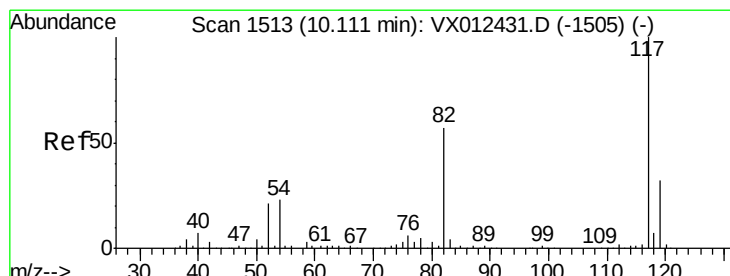
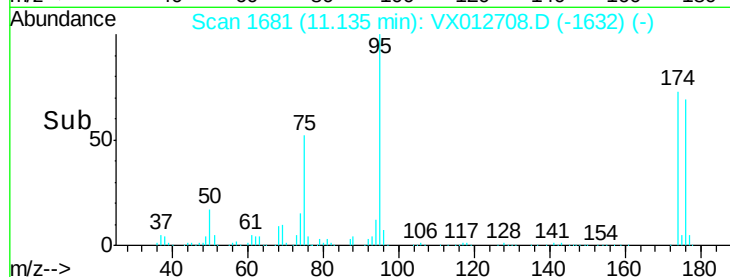
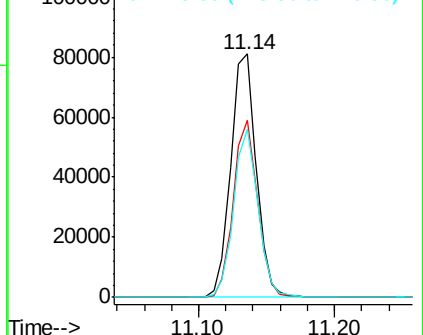
176 66.4 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

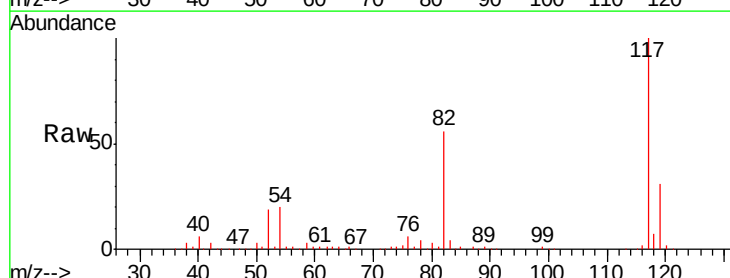
Tgt Ion: 117 Resp: 234184

Ion Ratio Lower Upper

117 100

82 56.4 45.9 68.9

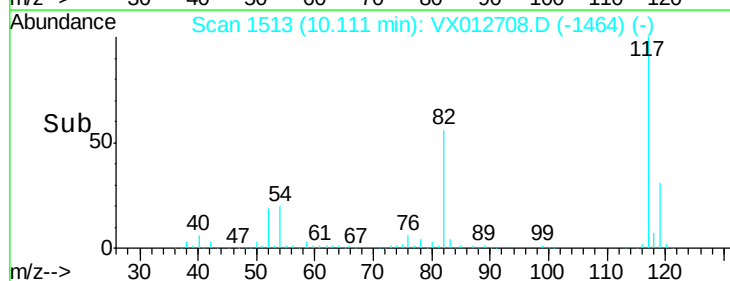
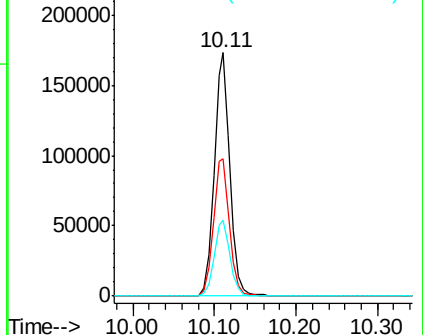
119 31.4 25.3 37.9

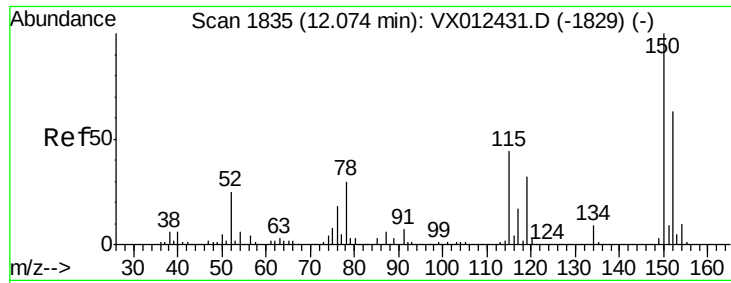


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

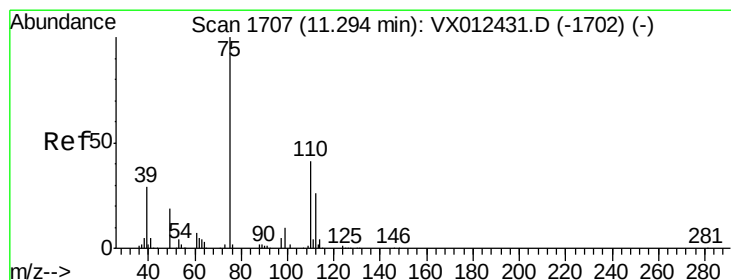
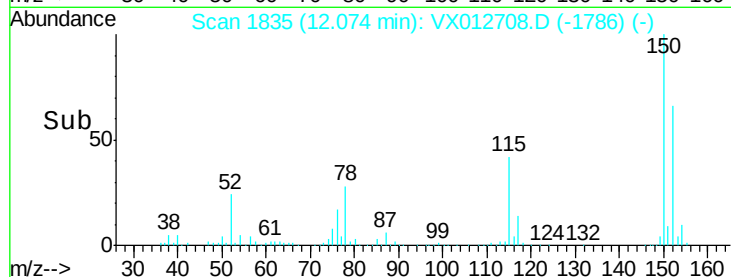
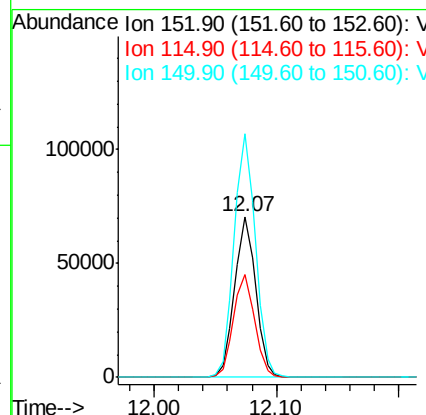
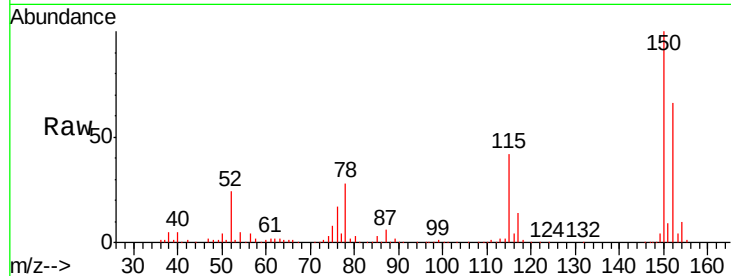




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

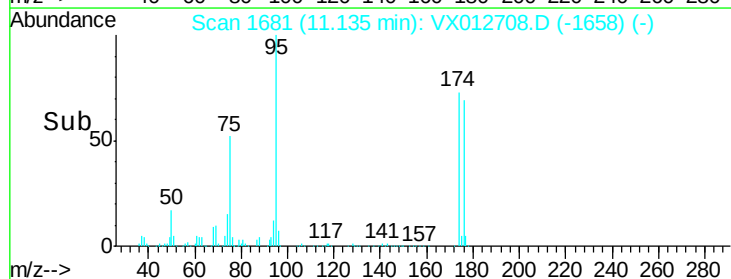
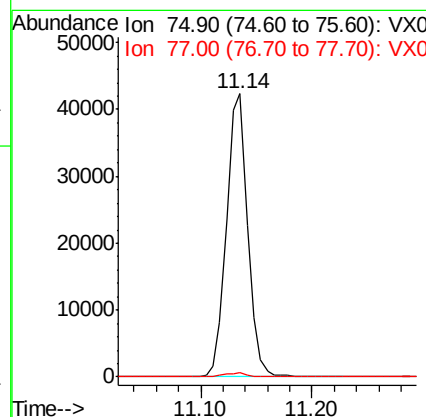
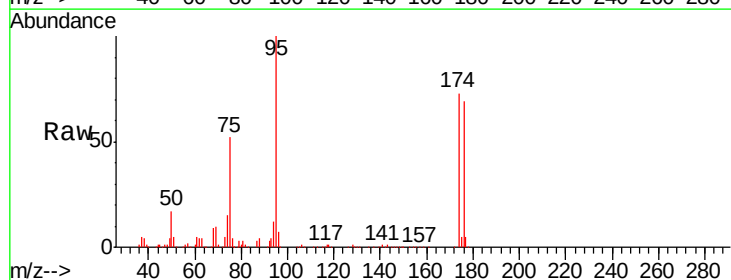
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ123I-20190926

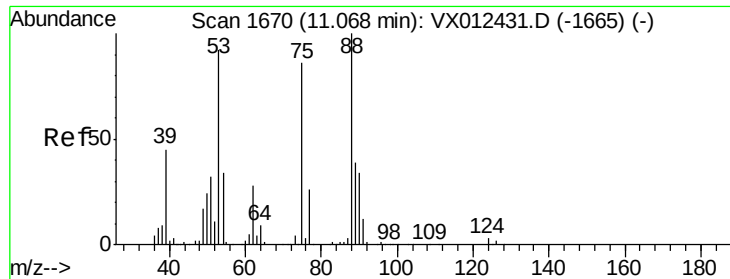
Tgt Ion:152 Resp: 83995
 Ion Ratio Lower Upper
 152 100
 115 64.3 44.1 132.3
 150 153.0 0.0 343.8



#76
 1,2,3-Trichloropropane
 Concen: 25.027 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX012708.D
 Acq: 30 Sep 2019 16:19

Tgt Ion: 75 Resp: 55607
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.7 59.0#

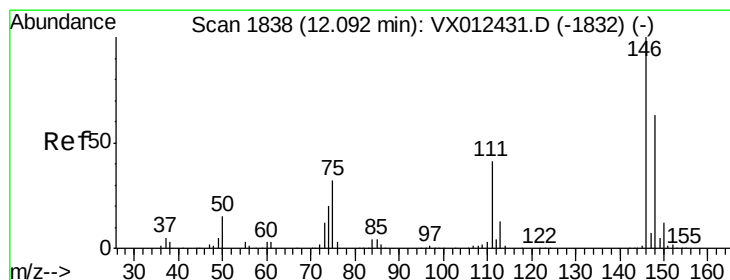
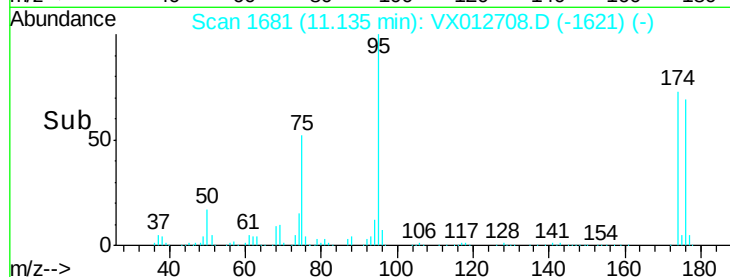
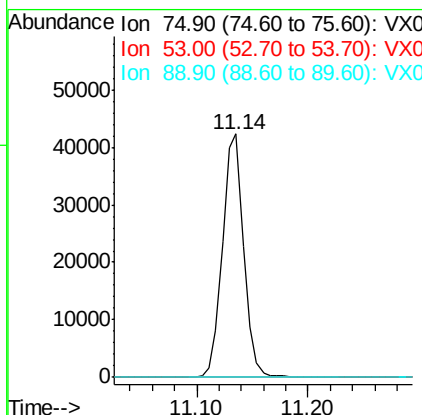
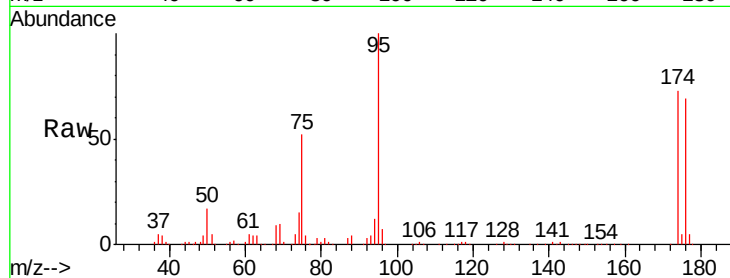




#81
trans-1,4-Dichloro-2-butene
Concen: 71.722 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

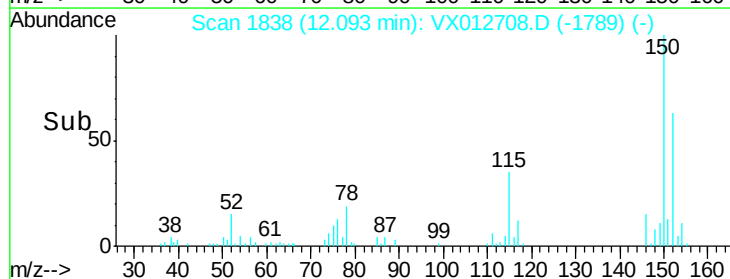
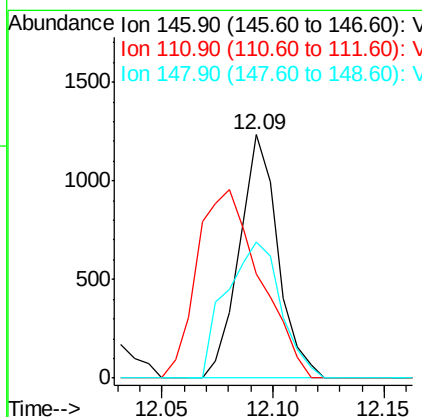
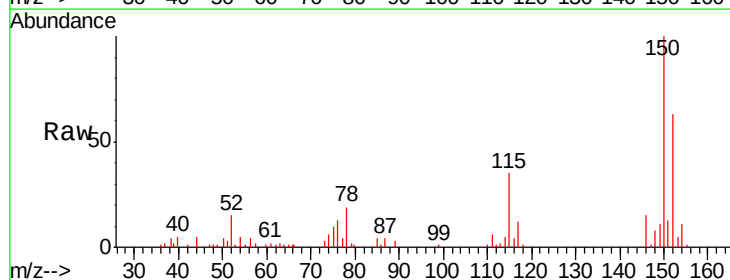
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ123I-20190926

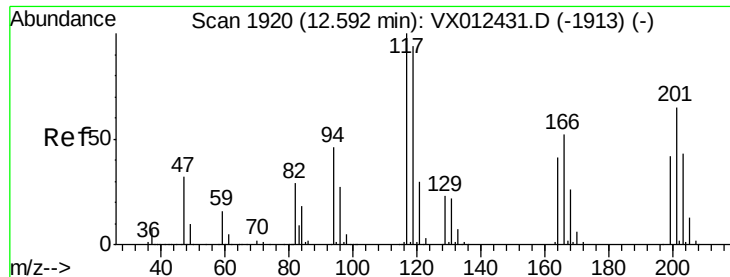
Tgt Ion: 75 Resp: 55607
Ion Ratio Lower Upper
75 100
53 0.0 83.6 125.4#
89 0.0 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: 0.530 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX012708.D
Acq: 30 Sep 2019 16:19

Tgt Ion: 146 Resp: 1493
Ion Ratio Lower Upper
146 100
111 125.5 21.1 63.3#
148 79.4 32.1 96.5





#90

Hexachloroethane

Concen: 0.466 ug/l

RT: 12.74 min Scan# 1945

Delta R.T. 0.15 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

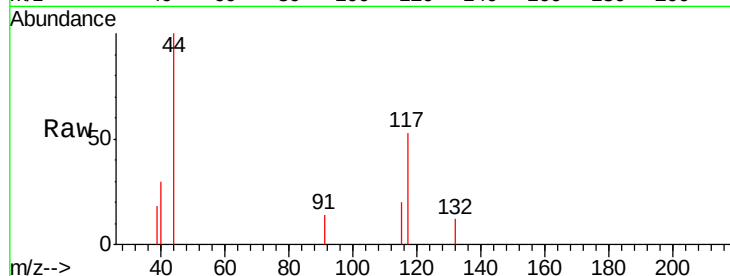
SA-PZ123I-20190926

Tgt Ion:117 Resp: 483

Ion Ratio Lower Upper

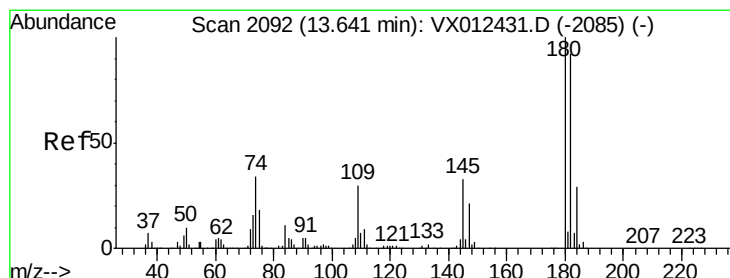
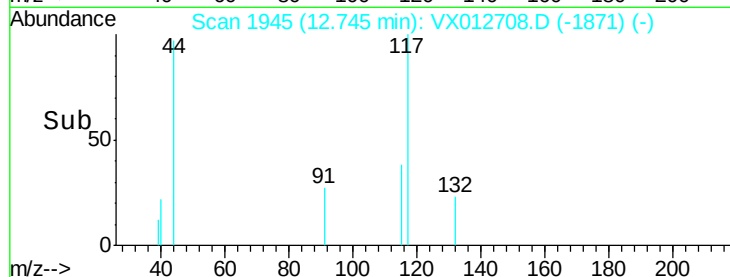
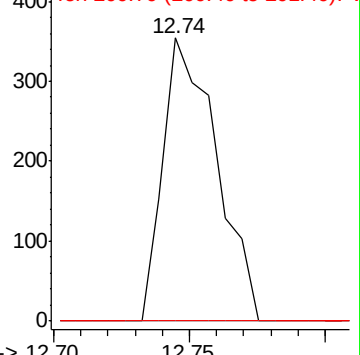
117 100

201 0.0 33.3 99.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 0.554 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX012708.D

Acq: 30 Sep 2019 16:19

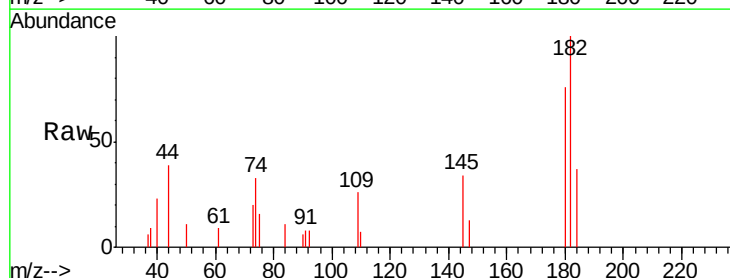
Tgt Ion:180 Resp: 942

Ion Ratio Lower Upper

180 100

182 90.0 47.0 141.0

145 36.4 16.8 50.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

