

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091118\
 Data File : VX004474.D
 Acq On : 11 Sep 2018 19:14
 Operator : JC/MD
 Sample : J4857-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180910

Quant Time: Sep 12 05:52:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 15:21:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	175522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277147	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139506	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	123466	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
35) Dibromofluoromethane	5.51	113	109209	43.06	ug/l	0.00
Spiked Amount			Recovery	=	86.12%	
50) Toluene-d8	8.72	98	398028	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
62) 4-Bromofluorobenzene	11.14	95	135727	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	

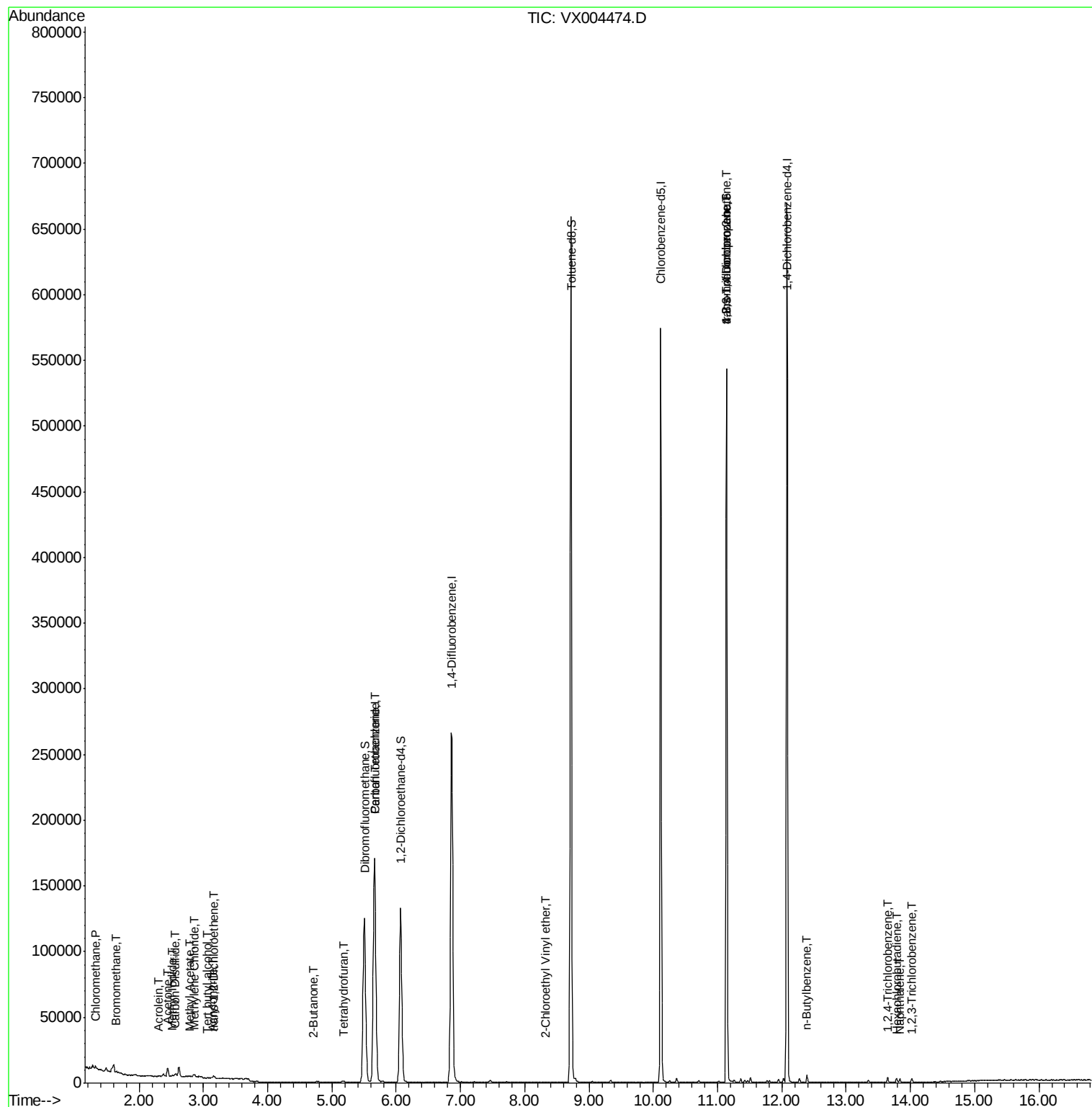
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1172	0.52	ug/l	98
5) Bromomethane	1.65	94	1623	0.50	ug/l	# 75
10) Methyl Iodide	2.52	142	1612	4.89	ug/l	93
11) Tert butyl alcohol	3.07	59	367	0.68	ug/l	98
13) Acrolein	2.31	56	364	1.71	ug/l	# 68
15) Acrylonitrile	3.15	53	789	0.61	ug/l	# 74
16) Acetone	2.45	43	6952	6.29	ug/l	95
17) Carbon Disulfide	2.57	76	3091	0.58	ug/l	# 84
18) Methyl Acetate	2.78	43	675	0.22	ug/l	# 81
20) Methylene Chloride	2.85	84	931	0.41	ug/l	88
21) trans-1,2-Dichloroethene	3.17	96	487	0.24	ug/l	96
25) 2-Butanone	4.71	43	540	0.31	ug/l	# 47
29) Tetrahydrofuran	5.17	42	799	0.75	ug/l	# 48
38) Carbon Tetrachloride	5.67	117	15465	4.71	ug/l	# 15
58) 2-Chloroethyl Vinyl ether	8.33	63	94	7.32	ug/l	# 45
76) 1,2,3-Trichloropropane	11.14	75	64470	23.65	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	64470	73.22	ug/l	# 10
89) n-Butylbenzene	12.39	91	1768	0.23	ug/l	94
93) 1,2,4-Trichlorobenzene	13.65	180	1149	0.34	ug/l	93
94) Hexachlorobutadiene	13.78	225	643	0.36	ug/l	93
95) Naphthalene	13.83	128	2041	0.21	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	918	0.26	ug/l	98

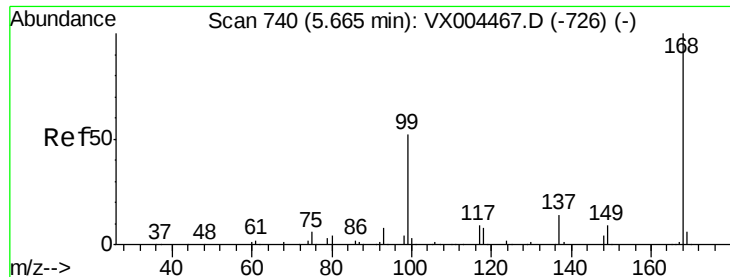
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 12 05:52:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 15:21:13 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

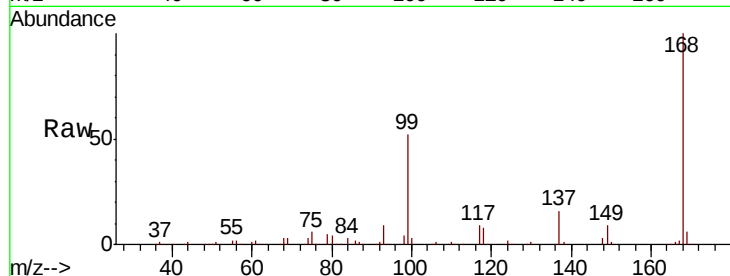
TB-01-180910

Tot Ion:168 Resp: 175522

Ion Ratio Lower Upper

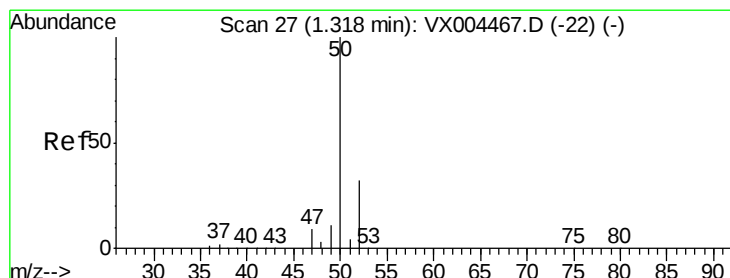
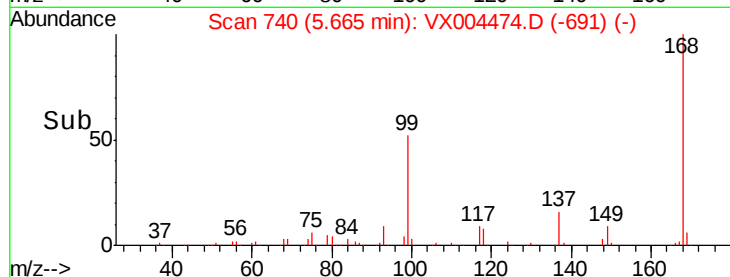
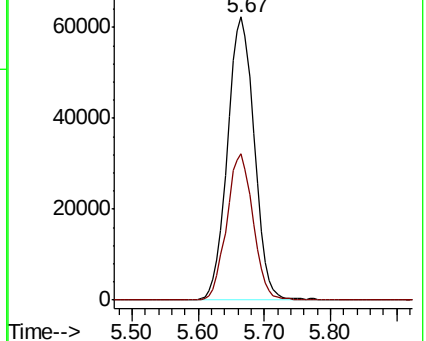
168 100

99 51.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.52 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004474.D

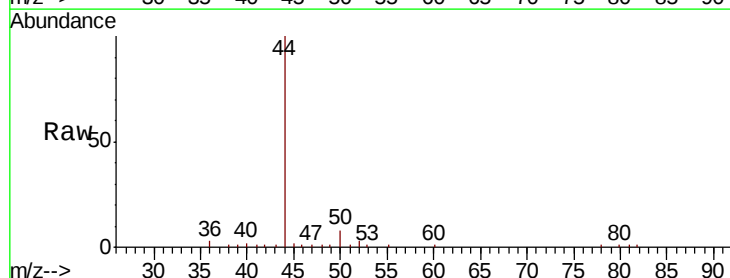
Acq: 11 Sep 2018 19:14

Tgt Ion: 50 Resp: 1172

Ion Ratio Lower Upper

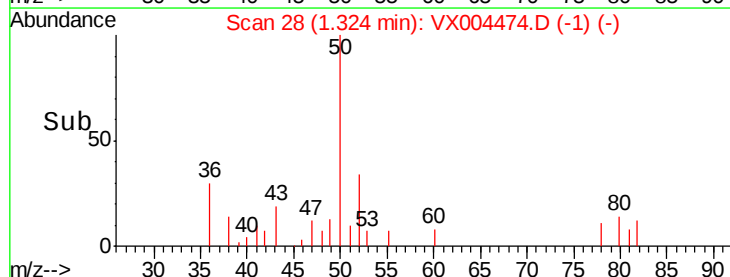
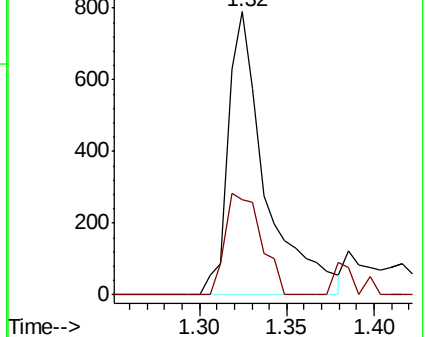
50 100

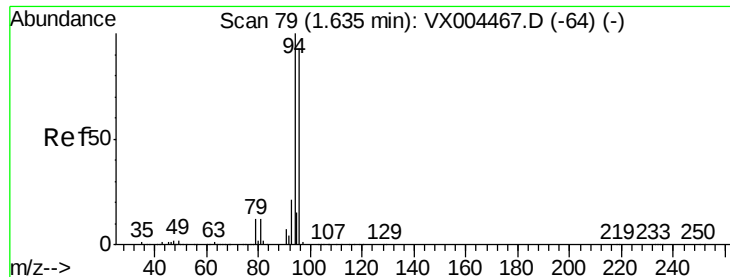
52 33.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.50 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

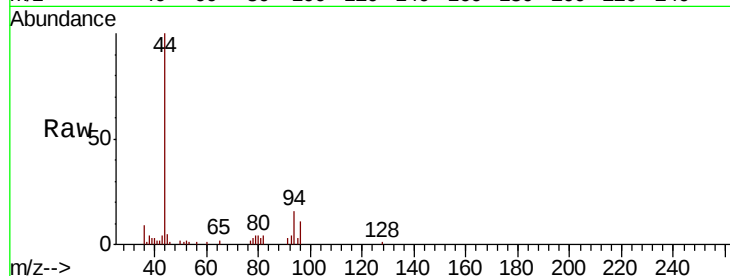
TB-01-180910

Tot Ion: 94 Resp: 1623

Ion Ratio Lower Upper

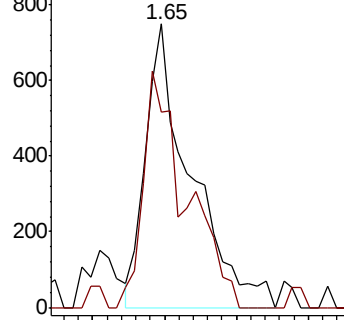
94 100

96 68.8 74.5 111.7#

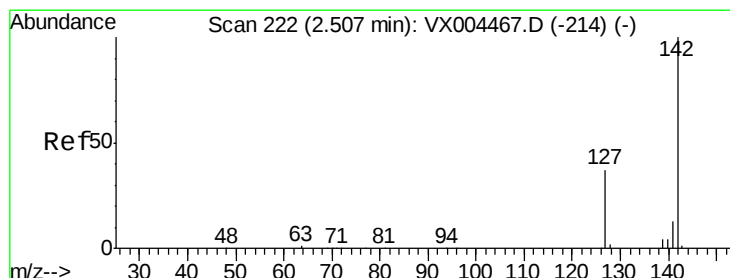
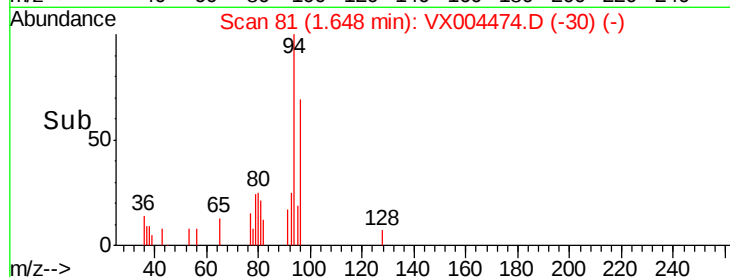


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.89 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

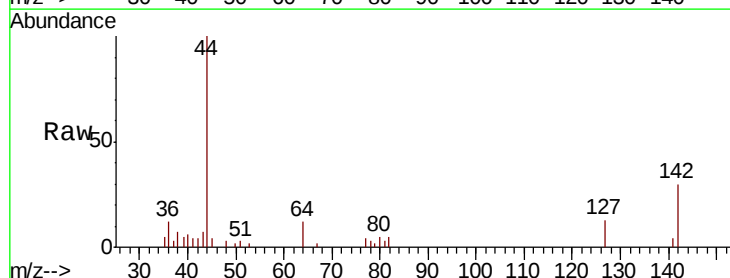
Tgt Ion: 142 Resp: 1612

Ion Ratio Lower Upper

142 100

127 47.1 33.8 50.6

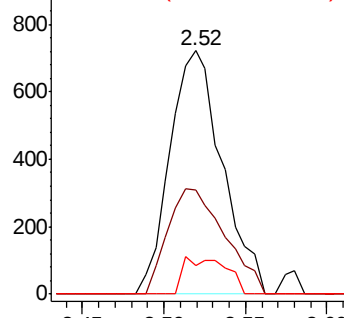
141 12.2 11.4 17.0



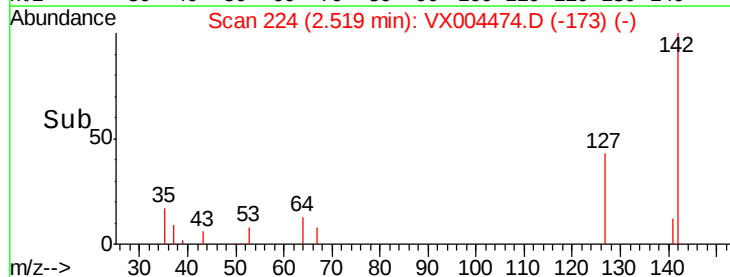
Abundance Ion 141.80 (141.50 to 142.50): V

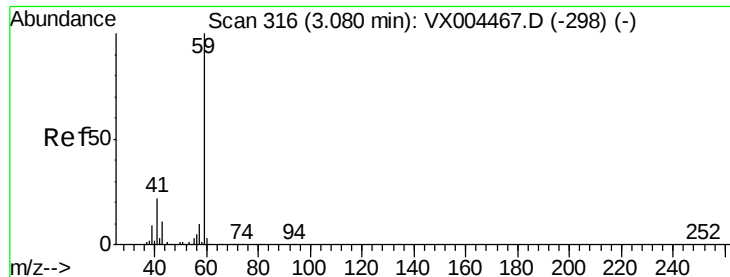
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

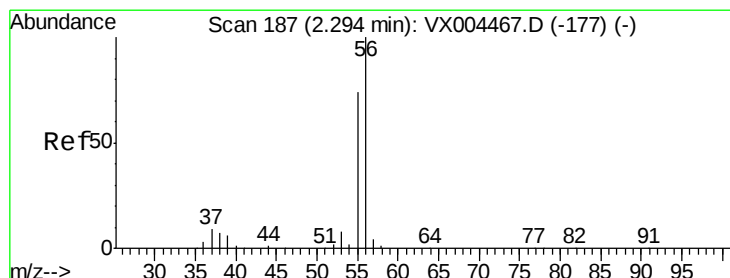
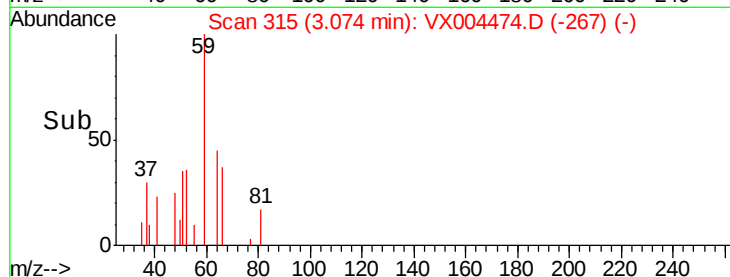
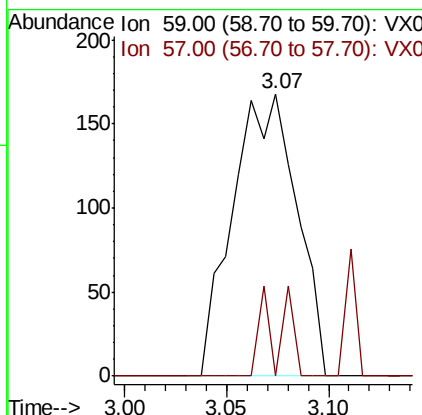
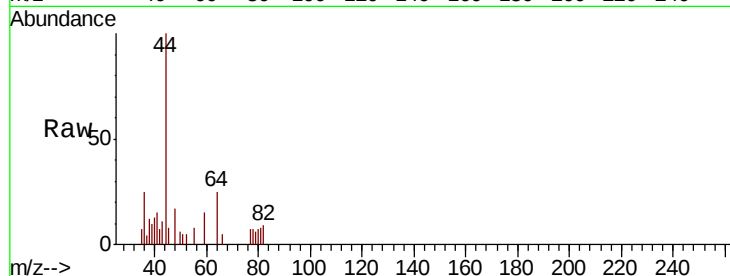




#11
Tert butyl alcohol
Concen: 0.68 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

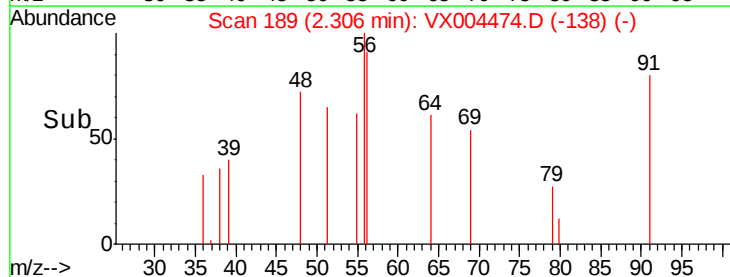
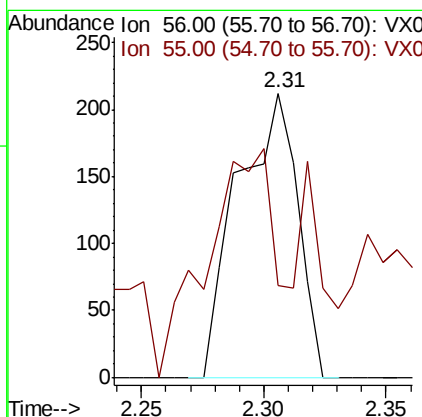
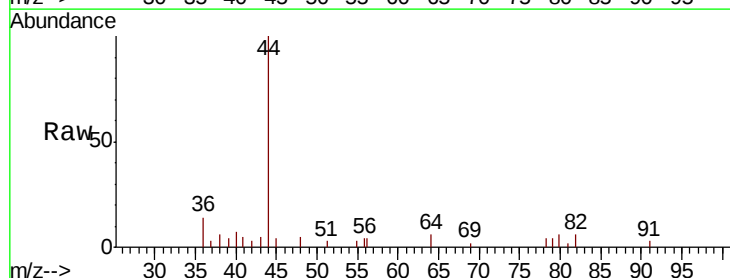
Instrument :
MSVOA_X
ClientSampleId :
TB-01-180910

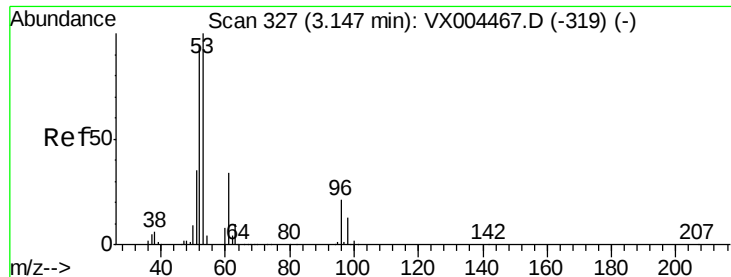
Tot Ion: 59 Resp: 367
Ion Ratio Lower Upper
59 100
57 10.9 8.2 12.4



#13
Acrolein
Concen: 1.71 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

Tgt Ion: 56 Resp: 364
Ion Ratio Lower Upper
56 100
55 94.2 54.7 82.1#





#15

Acrylonitrile

Concen: 0.61 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180910

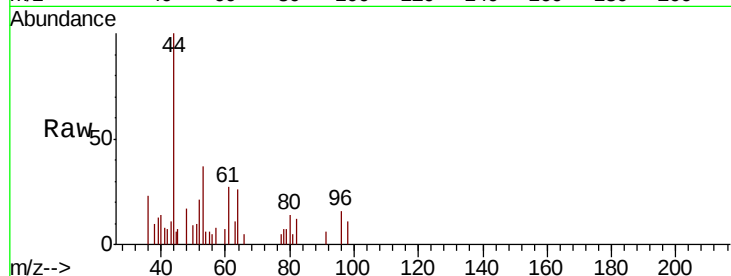
Tot Ion: 53 Resp: 789

Ion Ratio Lower Upper

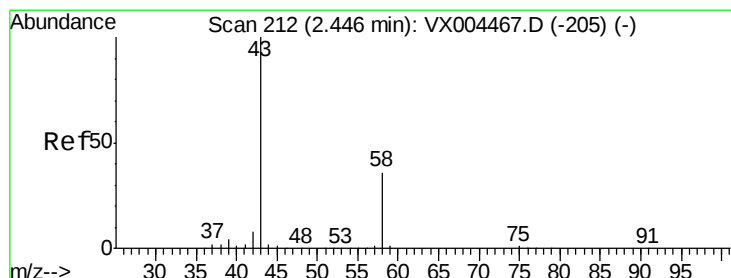
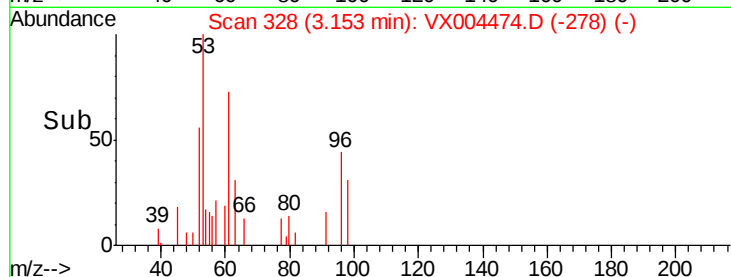
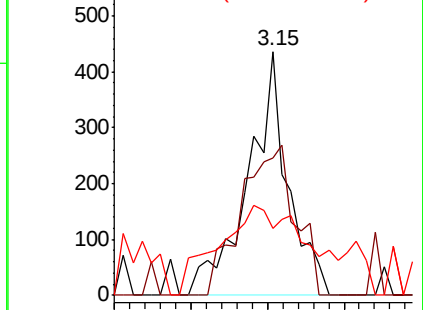
53 100

52 84.2 65.2 97.8

51 81.0 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 6.29 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004474.D

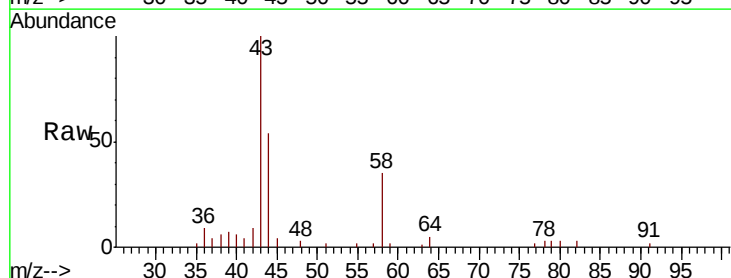
Acq: 11 Sep 2018 19:14

Tgt Ion: 43 Resp: 6952

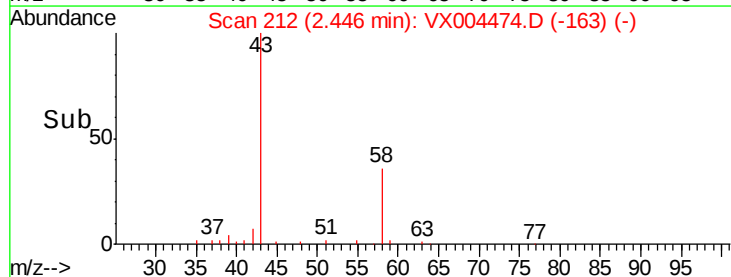
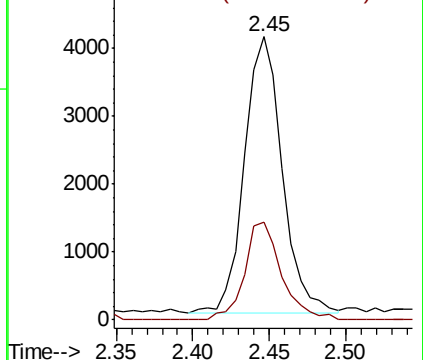
Ion Ratio Lower Upper

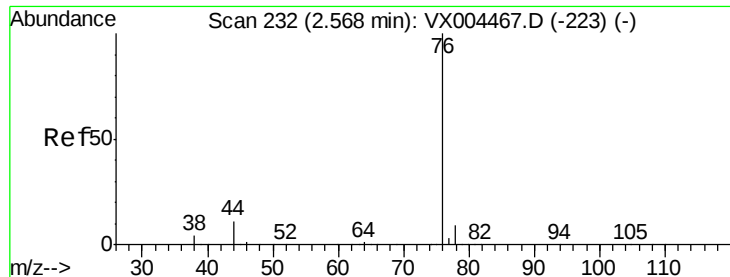
43 100

58 35.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.58 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

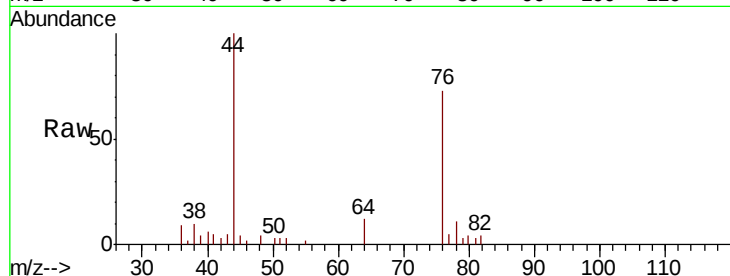
TB-01-180910

Tot Ion: 76 Resp: 3091

Ion Ratio Lower Upper

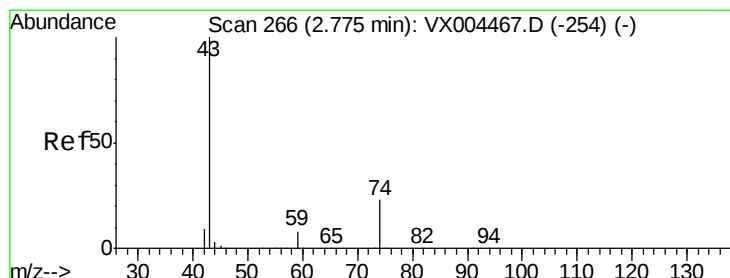
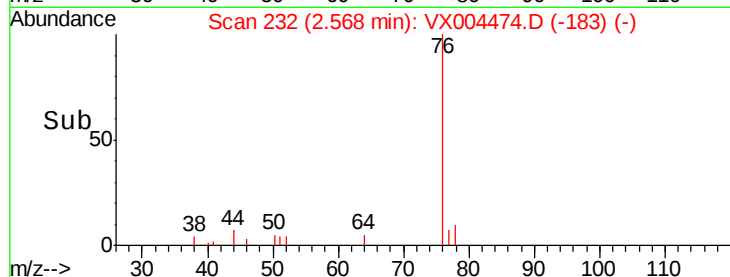
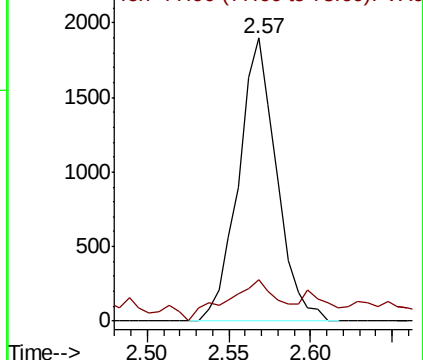
76 100

78 14.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.22 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004474.D

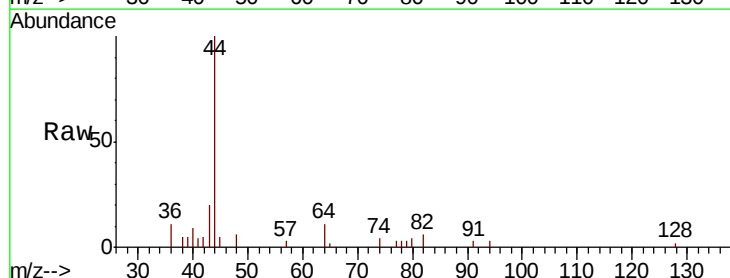
Acq: 11 Sep 2018 19:14

Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

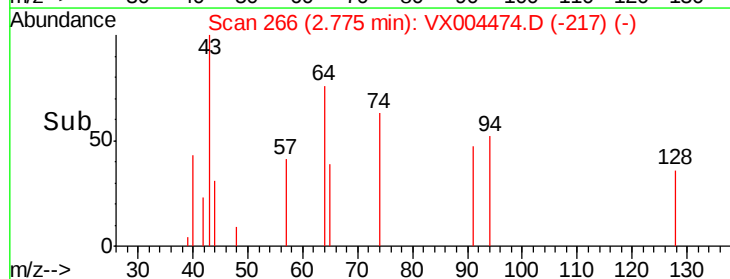
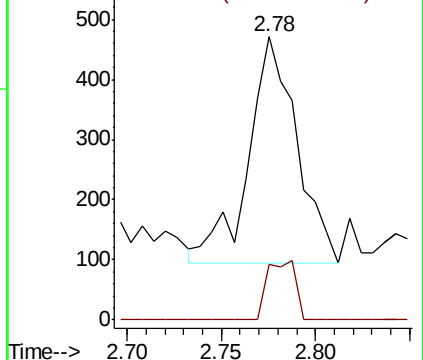
43 100

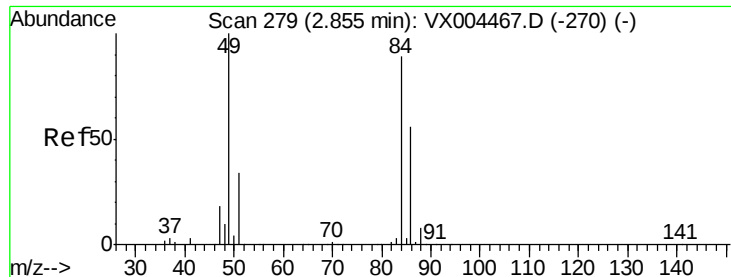
74 15.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

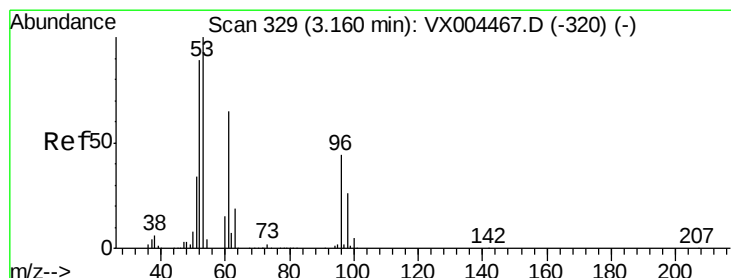
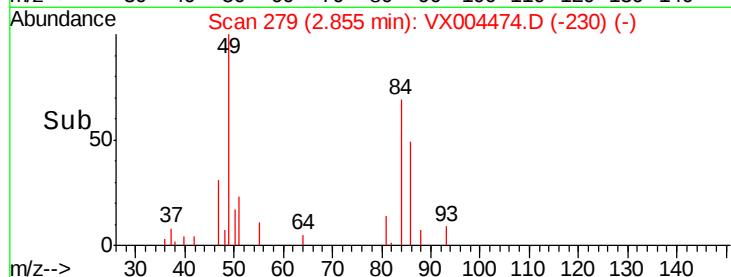
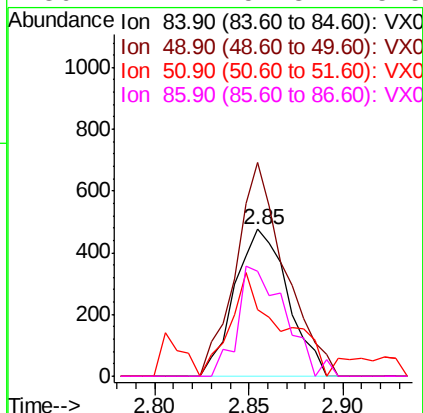
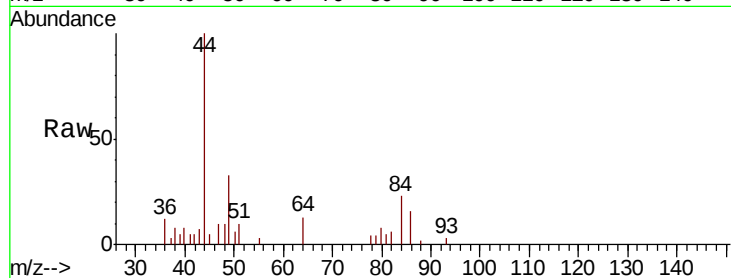




#20
Methylene Chloride
Concen: 0.41 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

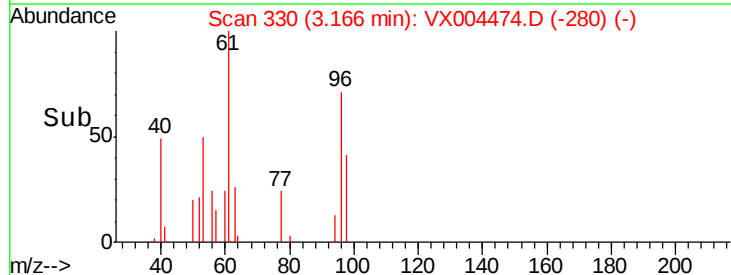
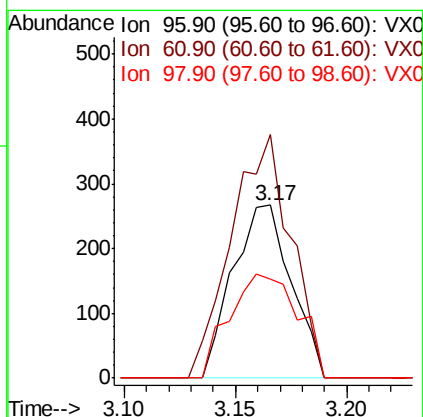
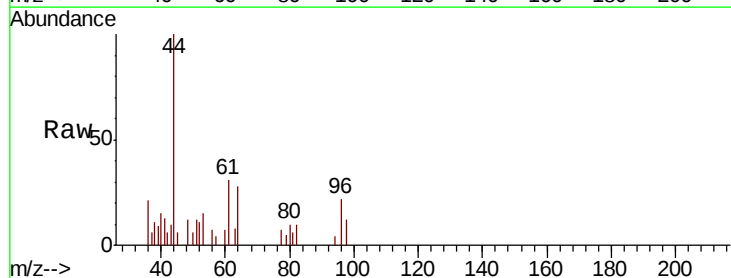
Instrument :
MSVOA_X
ClientSampleId :
TB-01-180910

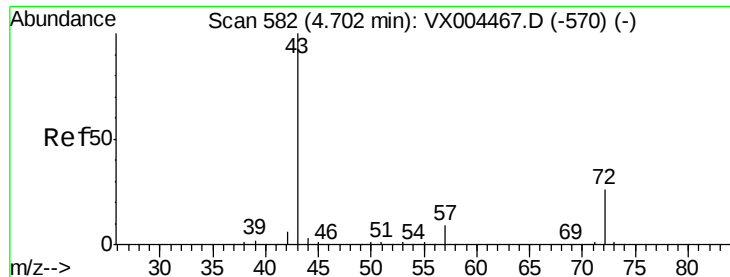
Tot Ion:	84	Resp:	931
Ion	Ratio	Lower	Upper
84	100		
49	145.7	101.2	151.8
51	33.7	29.5	44.3
86	71.4	52.3	78.5



#21
trans-1,2-Dichloroethene
Concen: 0.24 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

Tgt Ion:	96	Resp:	487
Ion	Ratio	Lower	Upper
96	100		
61	140.8	113.8	170.6
98	57.3	51.8	77.8





#25

2-Butanone

Concen: 0.31 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampled :

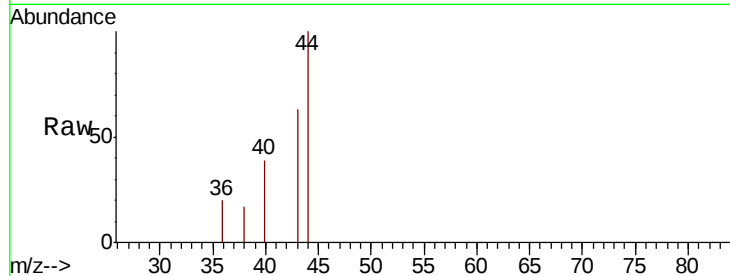
TB-01-180910

Tot Ion: 43 Resp: 540

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.71

200

150

100

50

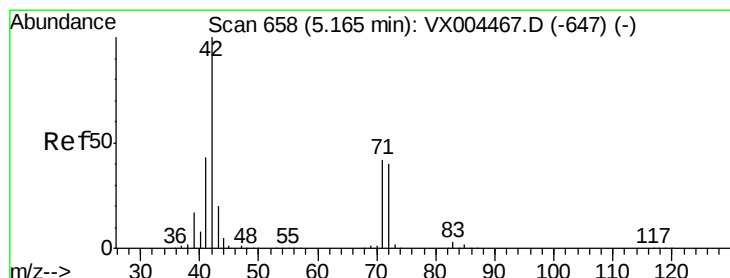
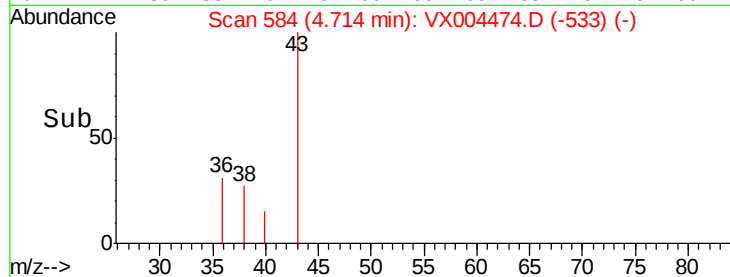
0

4.65

4.70

4.75

Time-->



#29

Tetrahydrofuran

Concen: 0.75 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

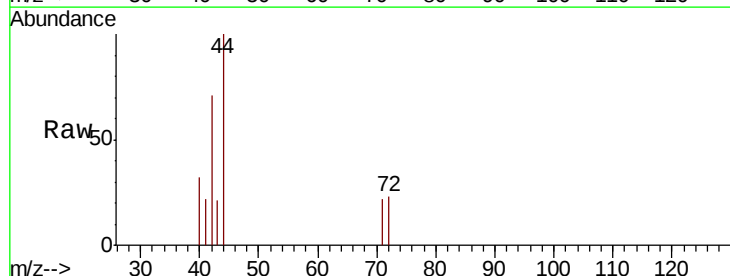
Tgt Ion: 42 Resp: 799

Ion Ratio Lower Upper

42 100

72 21.8 37.4 56.0#

71 0.0 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.17

400

300

200

100

0

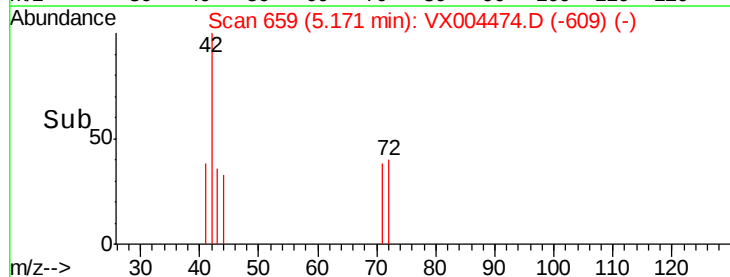
5.10

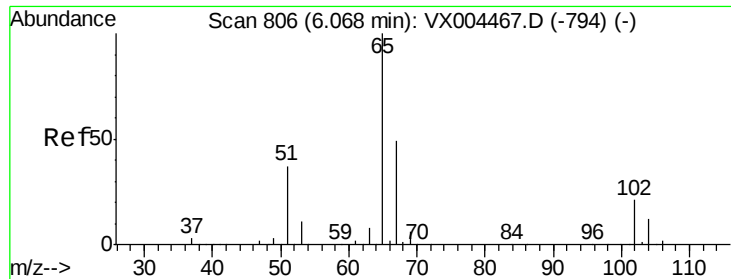
5.15

5.20

5.25

Time-->





#33

1,2-Dichloroethane-d4

Concen: 54.55 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampled :

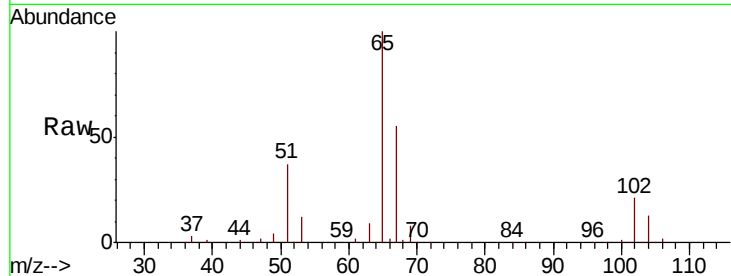
TB-01-180910

Tot Ion: 65 Resp: 123466

Ion Ratio Lower Upper

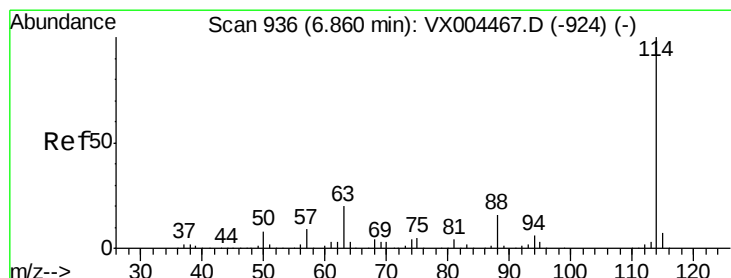
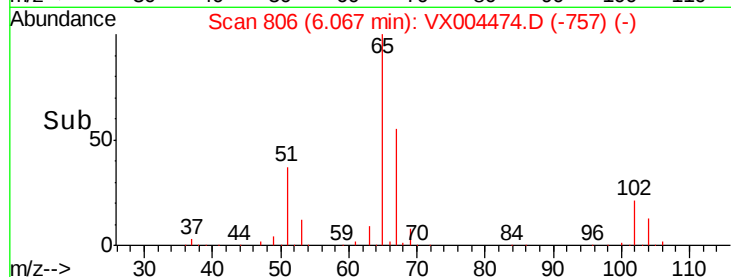
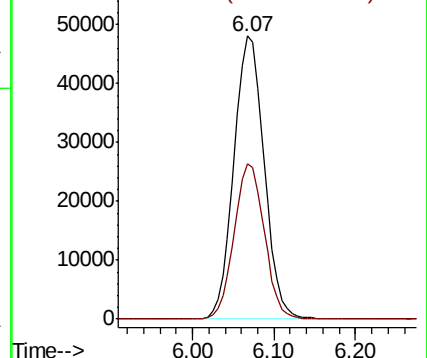
65 100

67 54.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

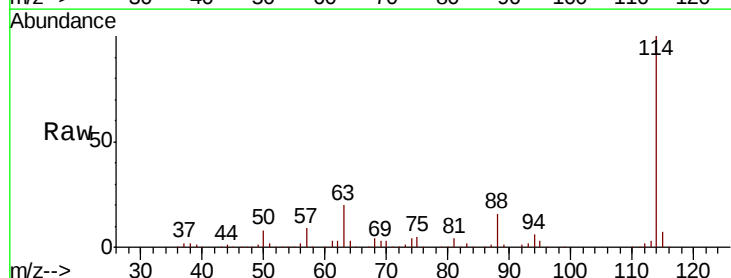
Tgt Ion: 114 Resp: 277147

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

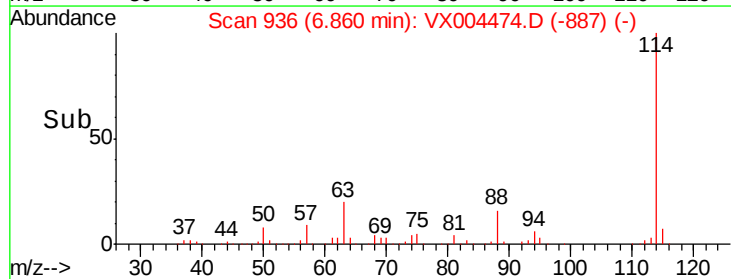
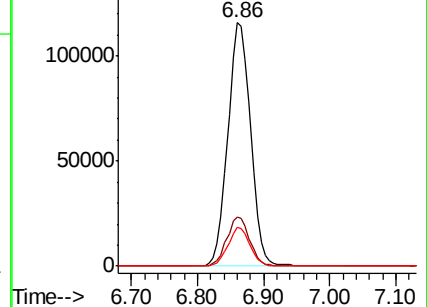
88 15.9 0.0 30.4

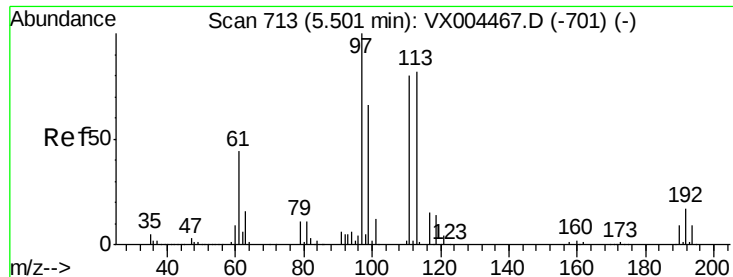


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 43.06 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180910

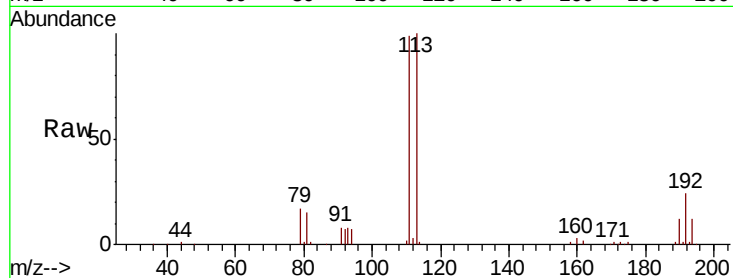
Tot Ion:113 Resp: 109209

Ion Ratio Lower Upper

113 100

111 100.4 82.4 123.6

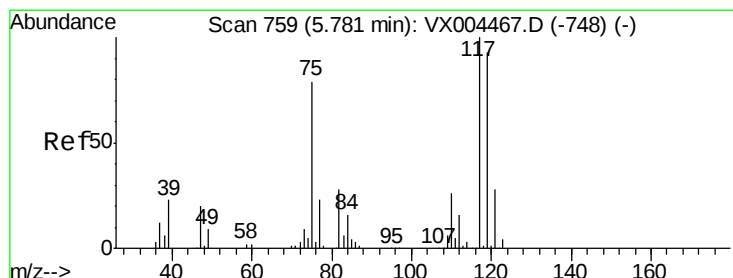
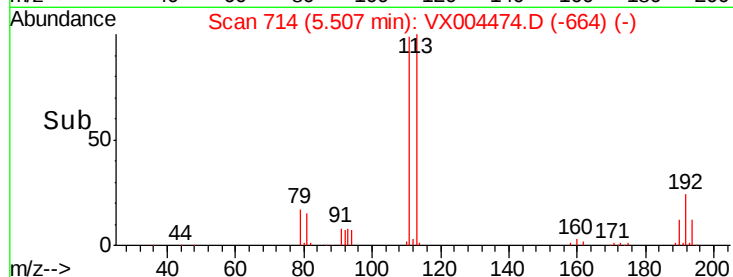
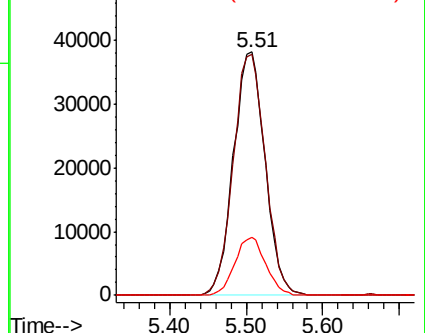
192 23.2 19.4 29.2



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



#38

Carbon Tetrachloride

Concen: 4.71 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

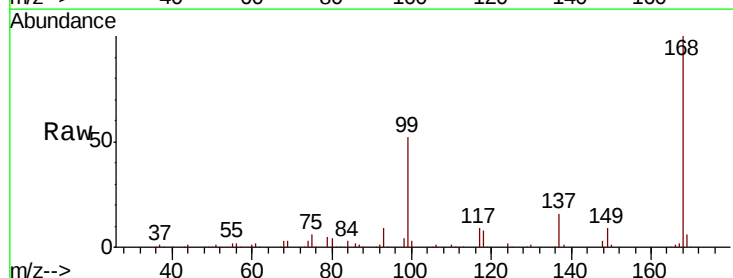
Tgt Ion:117 Resp: 15465

Ion Ratio Lower Upper

117 100

119 4.8 78.8 118.2#

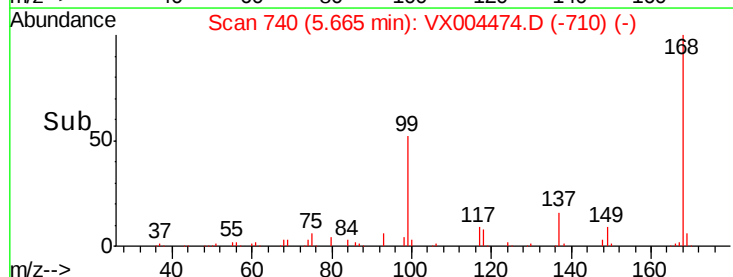
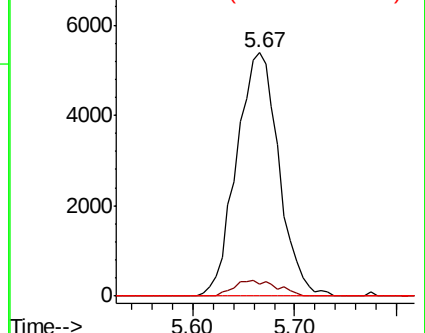
121 0.0 24.9 37.3#

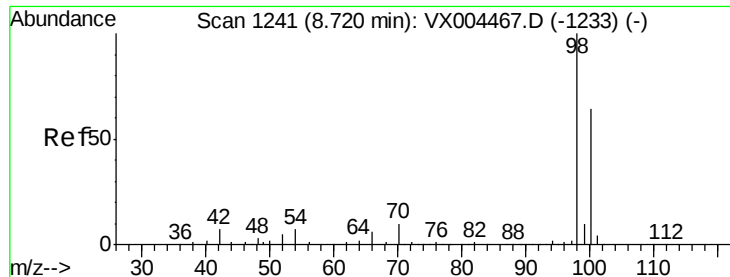


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 46.80 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

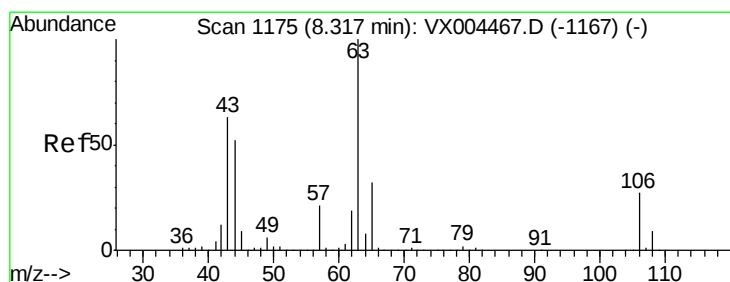
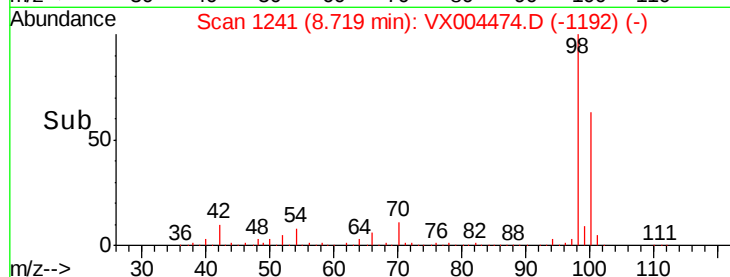
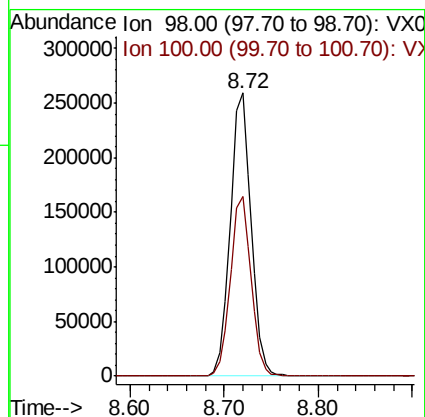
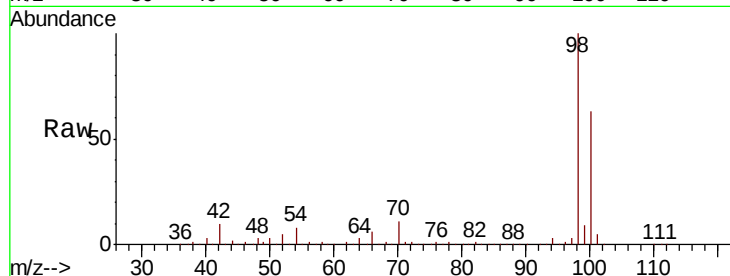
TB-01-180910

Tot Ion: 98 Resp: 398028

Ion Ratio Lower Upper

98 100

100 63.5 52.9 79.3



#58

2-Chloroethyl Vinyl ether

Concen: 7.32 ug/l

RT: 8.33 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX004474.D

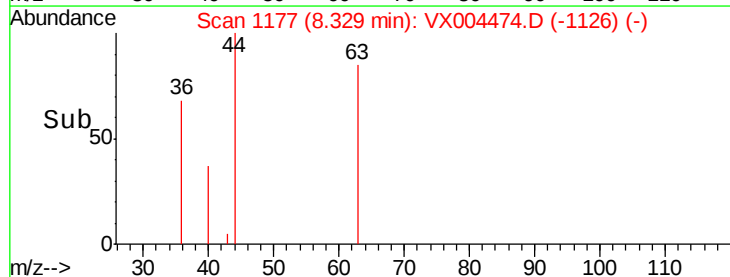
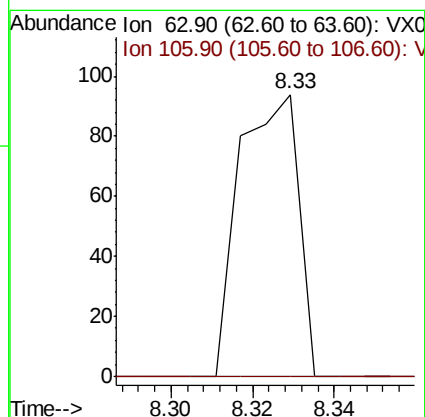
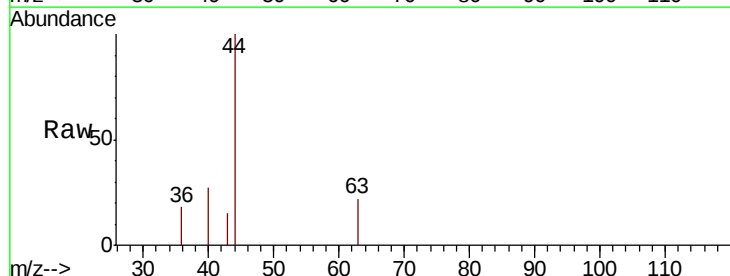
Acq: 11 Sep 2018 19:14

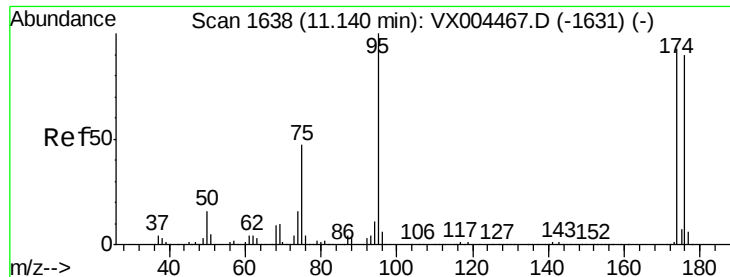
Tgt Ion: 63 Resp: 94

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

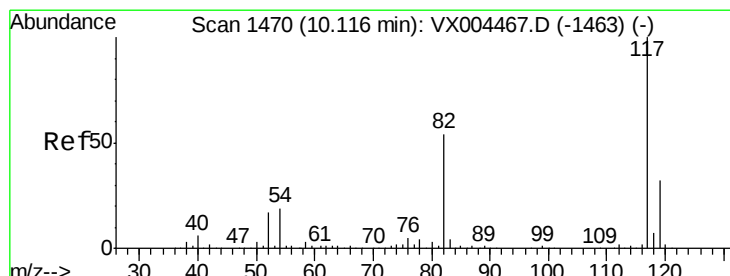
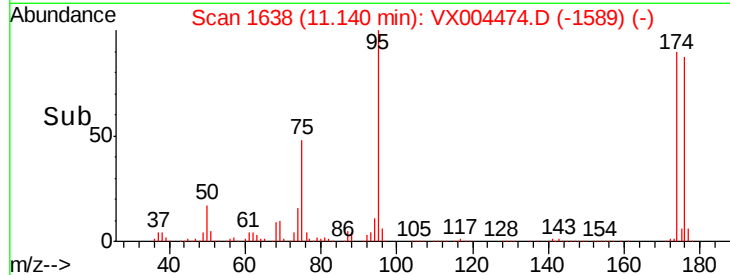
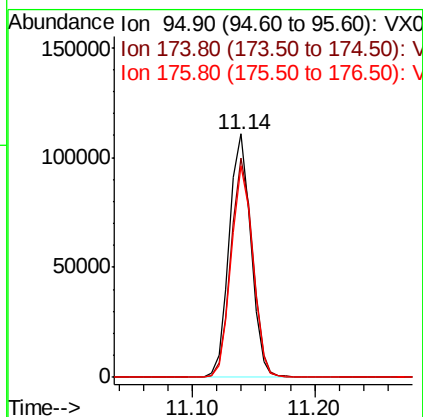
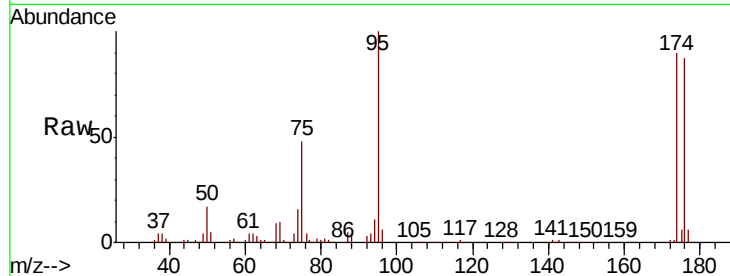




#62
4-Bromofluorobenzene
Concen: 44.71 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

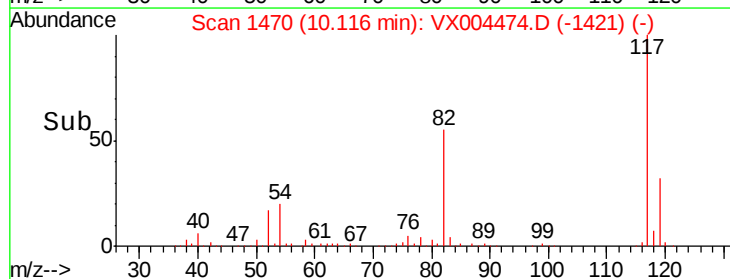
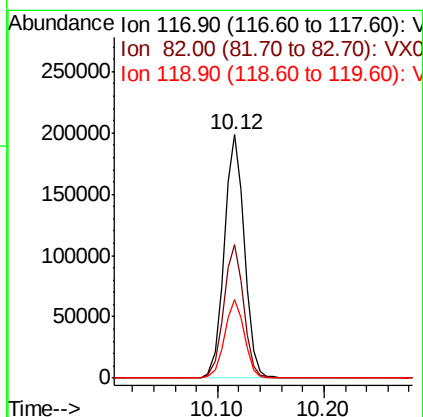
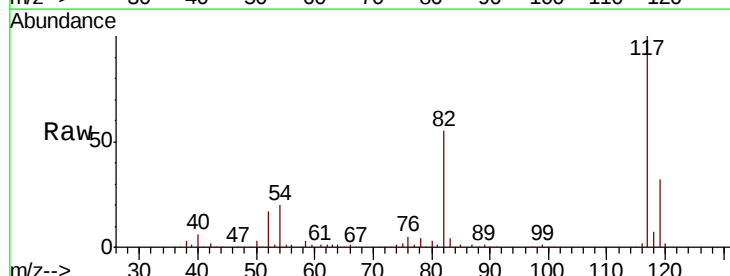
Instrument :
MSVOA_X
ClientSampled :
TB-01-180910

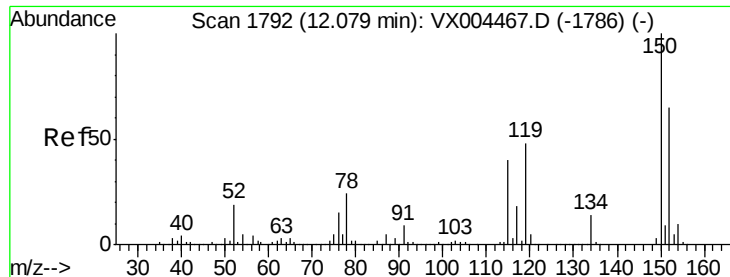
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.9	0.0	185.2
176	86.6	0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.7	47.8	71.6
119	32.0	29.3	43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180910

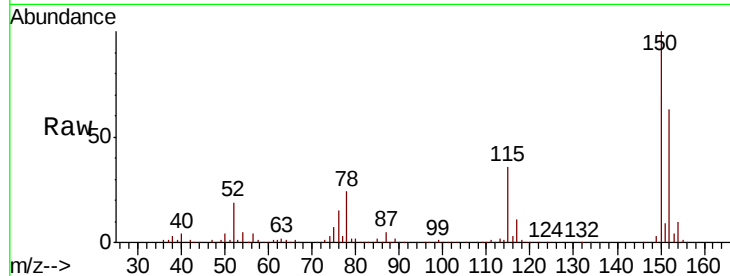
Tot Ion:152 Resp: 139506

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

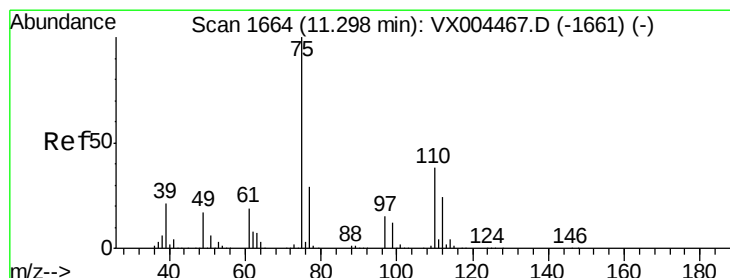
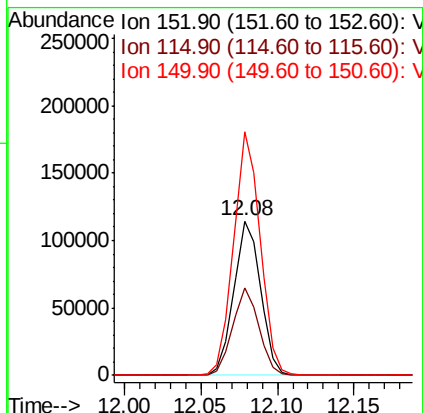
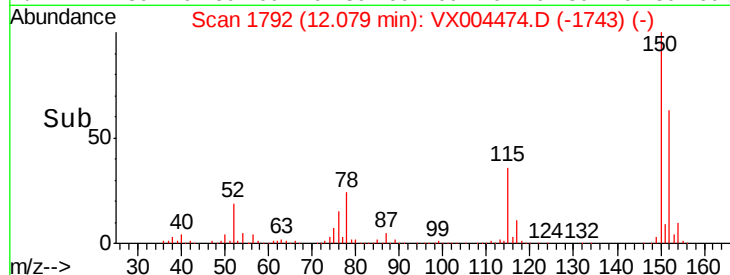
150 156.2 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.65 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004474.D

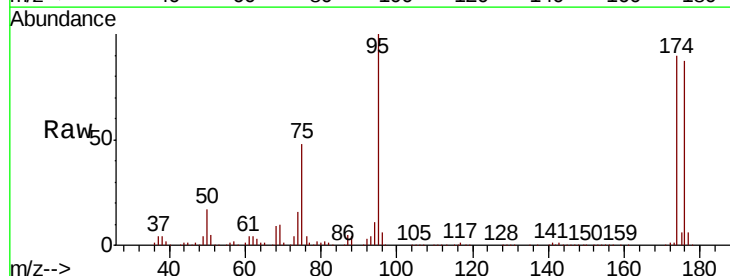
Acq: 11 Sep 2018 19:14

Tgt Ion: 75 Resp: 64470

Ion Ratio Lower Upper

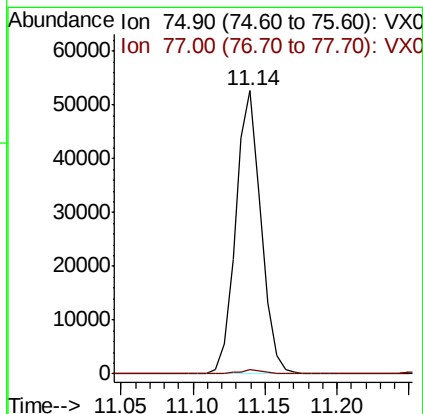
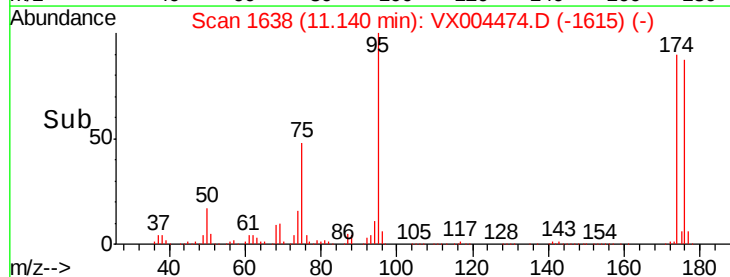
75 100

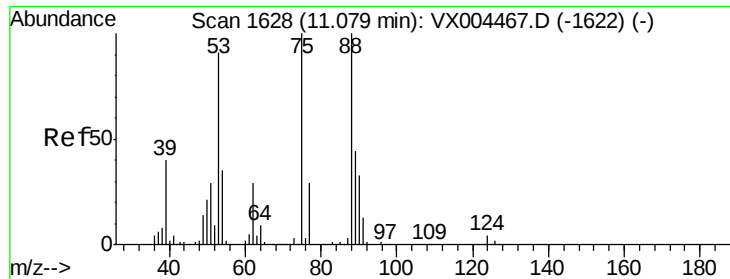
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

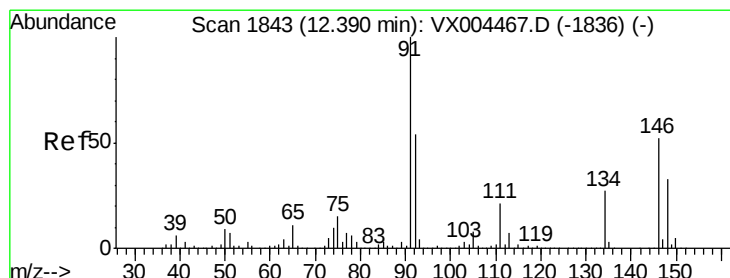
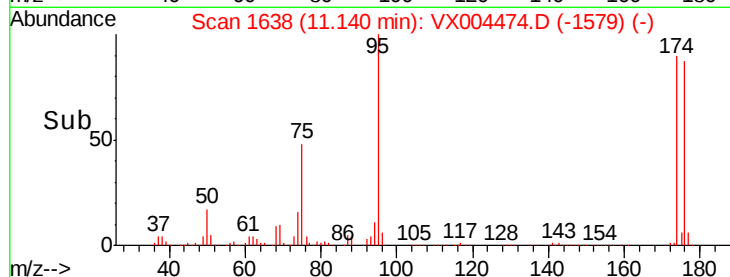
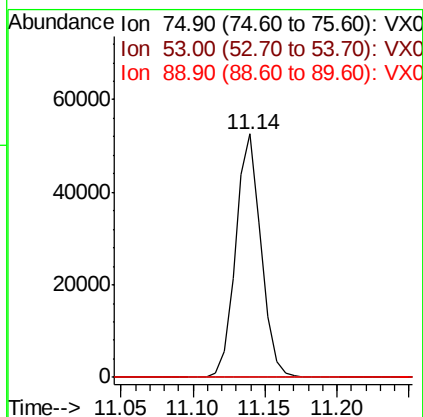
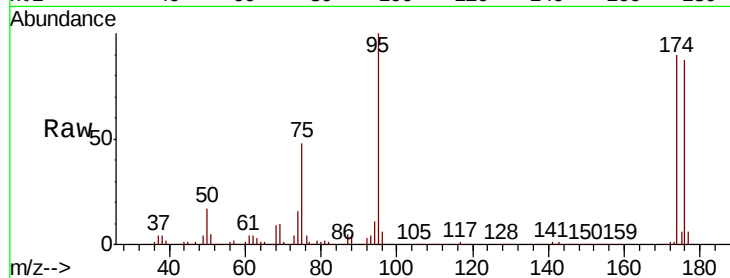




#81
trans-1,4-Dichloro-2-butene
Concen: 73.22 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

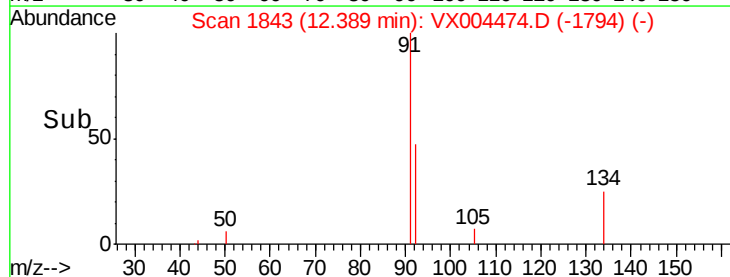
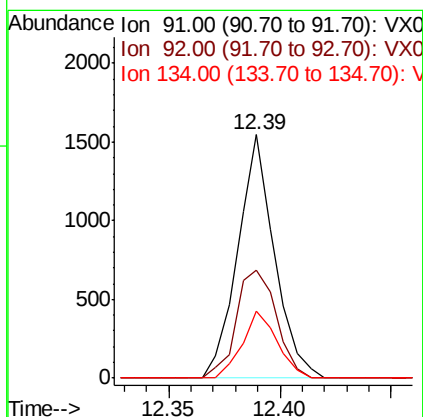
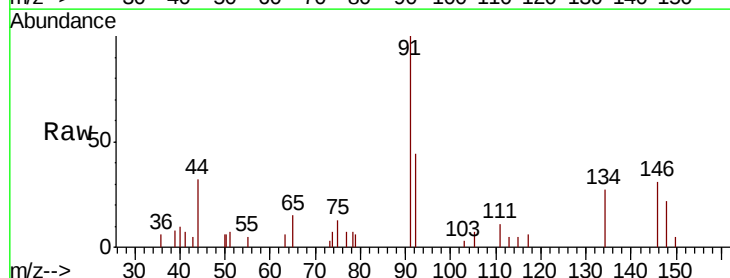
Instrument :
MSVOA_X
ClientSampleId :
TB-01-180910

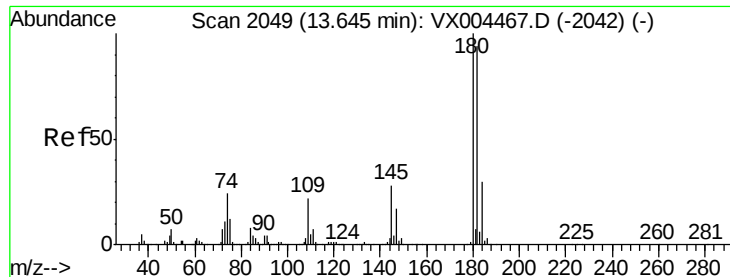
Tot Ion: 75 Resp: 64470
Ion Ratio Lower Upper
75 100
53 0.3 80.1 120.1#
89 0.0 37.2 55.8#



#89
n-Butylbenzene
Concen: 0.23 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX004474.D
Acq: 11 Sep 2018 19:14

Tgt Ion: 91 Resp: 1768
Ion Ratio Lower Upper
91 100
92 48.9 27.3 81.9
134 26.2 13.6 40.7

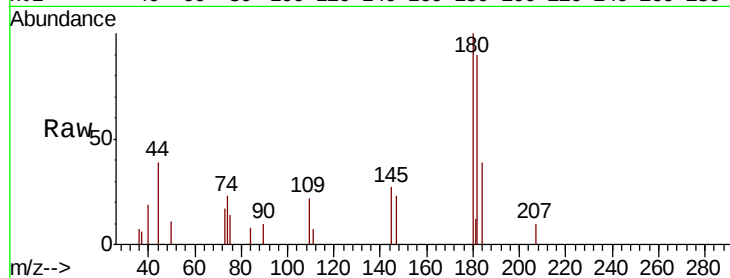




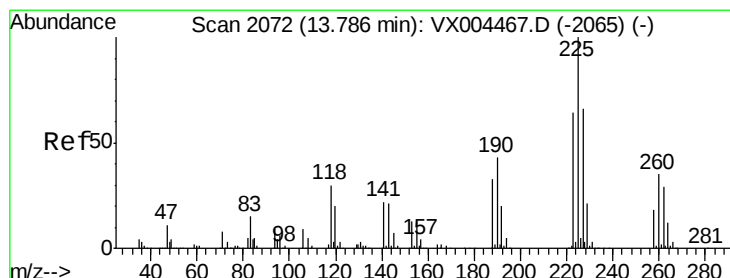
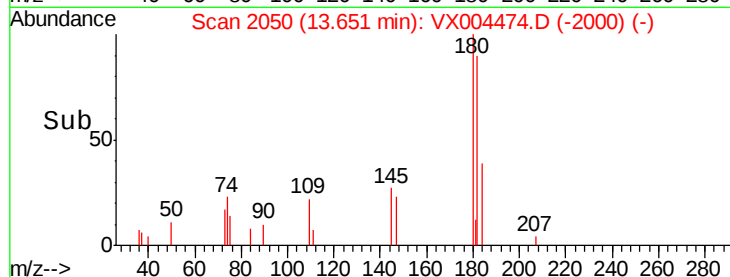
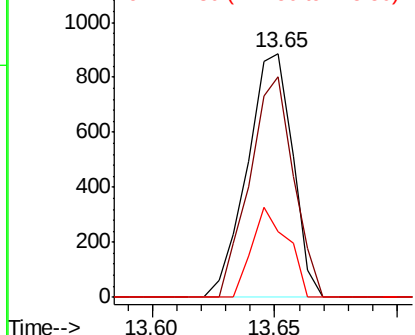
#93
 1,2,4-Trichlorobenzene
 Concen: 0.34 ug/l
 RT: 13.65 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VX004474.D
 Acq: 11 Sep 2018 19:14

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-180910

Tot Ion:180 Resp: 1149
 Ion Ratio Lower Upper
 180 100
 182 87.6 48.4 145.0
 145 29.0 14.3 42.9

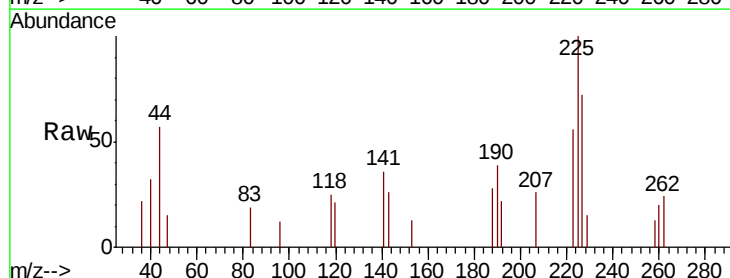


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

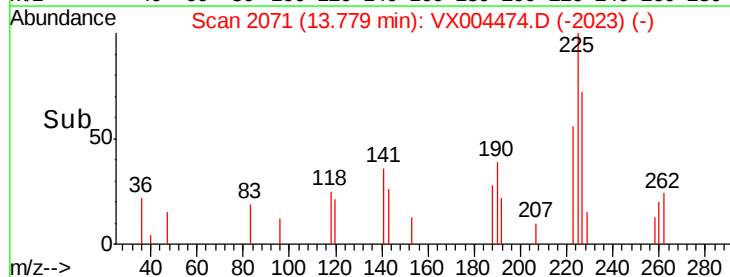
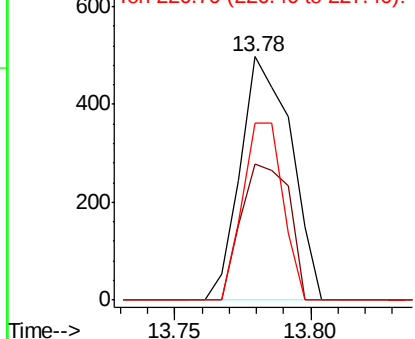


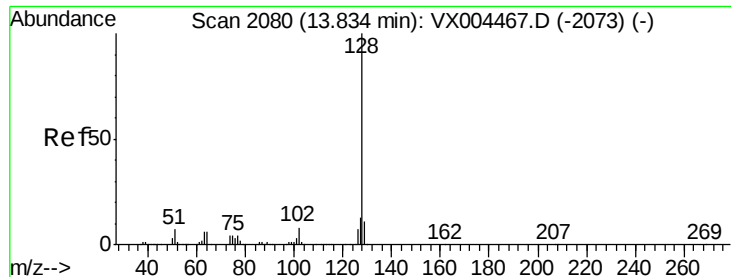
#94
 Hexachlorobutadiene
 Concen: 0.36 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.01 min
 Lab File: VX004474.D
 Acq: 11 Sep 2018 19:14

Tgt Ion:225 Resp: 643
 Ion Ratio Lower Upper
 225 100
 223 52.7 30.1 90.5
 227 57.9 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

Instrument :

MSVOA_X

ClientSampleId :

TB-01-180910

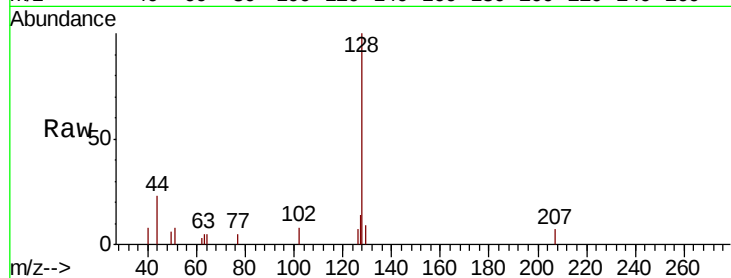
Tot Ion:128 Resp: 2041

Ion Ratio Lower Upper

128 100

127 10.3 10.2 15.2

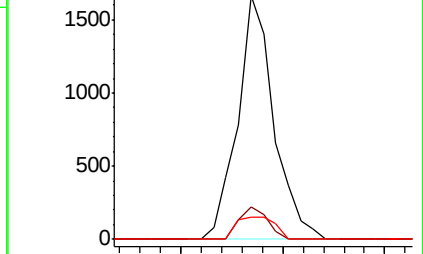
129 9.9 8.6 12.8



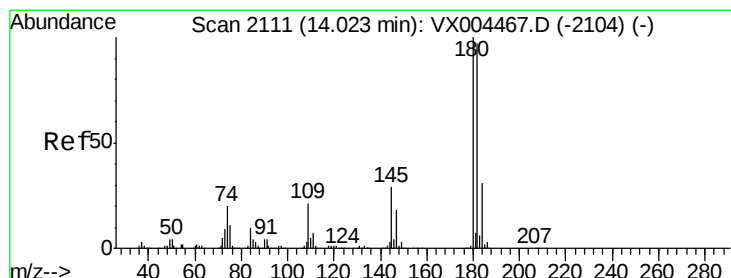
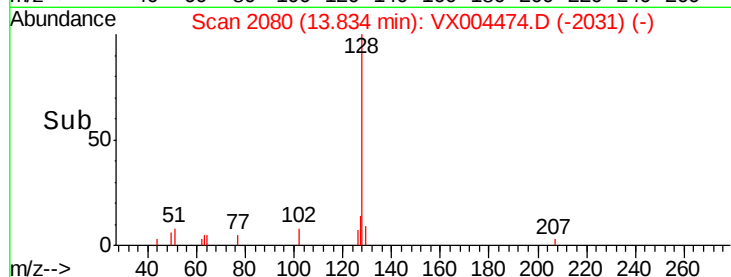
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.26 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VX004474.D

Acq: 11 Sep 2018 19:14

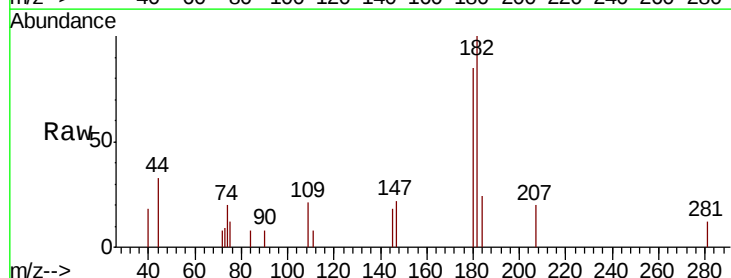
Tgt Ion:180 Resp: 918

Ion Ratio Lower Upper

180 100

182 96.6 48.5 145.6

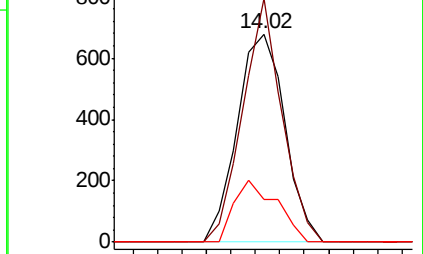
145 26.4 14.9 44.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->

