

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017131.D
 Acq On : 02 Jul 2020 04:31
 Operator : JC/SP
 Sample : L3159-18 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 51BR-20200629

Quant Time: Jul 02 05:51:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	211166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	362032	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	369619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	194284	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	141975	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
35) Dibromofluoromethane	5.46	113	121297	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
50) Toluene-d8	8.70	98	439134	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
62) 4-Bromofluorobenzene	11.12	95	181146	54.72	ug/l	0.00
Spiked Amount			Recovery	=	109.44%	

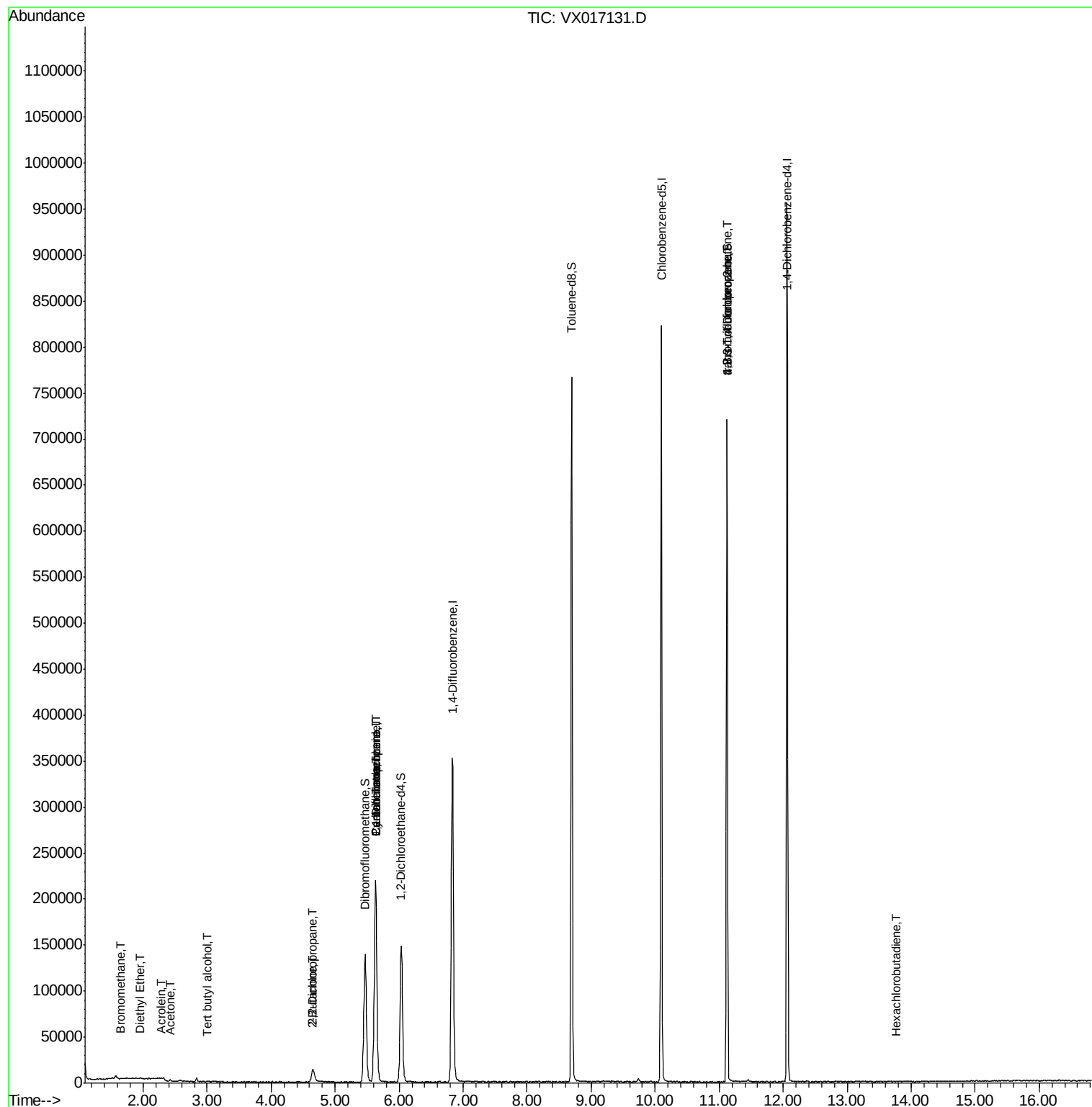
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	304	0.251	ug/l #	3
8) Diethyl Ether	1.96	74	29	0.391	ug/l	68
11) Tert butyl alcohol	3.01	59	751	1.512	ug/l	96
13) Acrolein	2.28	56	187	0.630	ug/l #	1
16) Acetone	2.42	43	1676	1.721	ug/l	93
20) Methylene Chloride	2.84	84	1494	Below Cal	#	78
25) 2-Butanone	4.64	43	389	0.240	ug/l	96
26) 2,2-Dichloropropane	4.64	77	895	0.248	ug/l #	53
31) Cyclohexane	5.63	56	4401	1.252	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	16098	4.705	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20701	5.493	ug/l #	18
44) Trichloroethene	7.19	130	220	Below Cal		99
76) 1,2,3-Trichloropropane	11.12	75	90480	23.683	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	90480	61.330	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	200	Below Cal		74
94) Hexachlorobutadiene	13.76	225	27	0.861	ug/l #	17

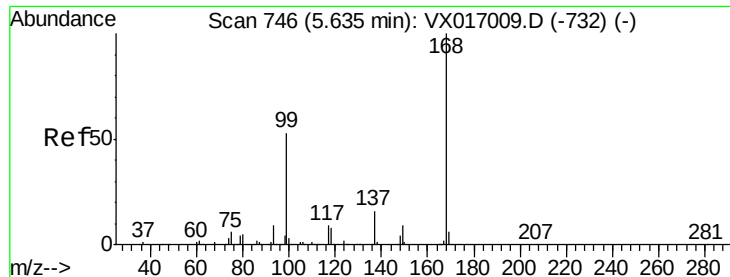
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

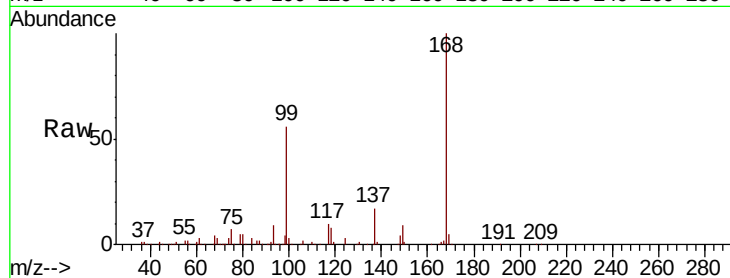
51BR-20200629

Tot Ion:168 Resp: 211166

Ion Ratio Lower Upper

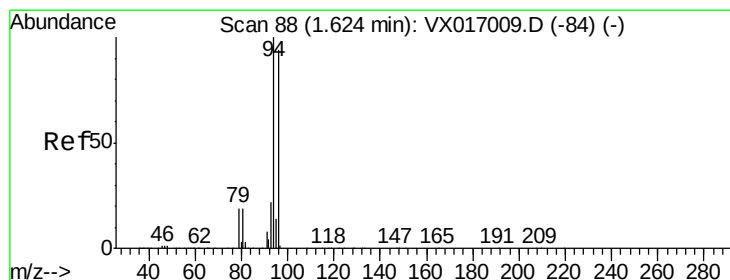
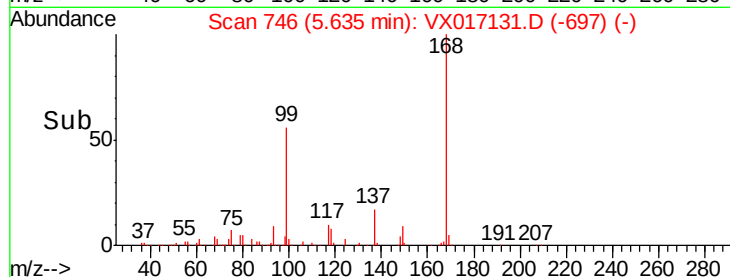
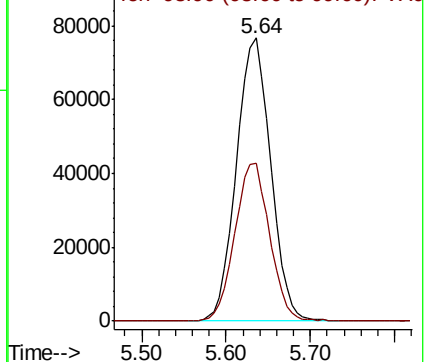
168 100

99 55.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.251 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017131.D

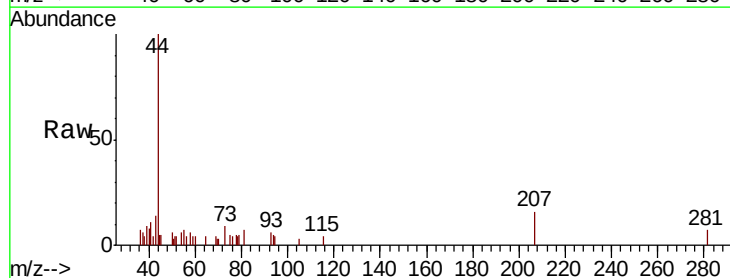
Acq: 02 Jul 2020 04:31

Tgt Ion: 94 Resp: 304

Ion Ratio Lower Upper

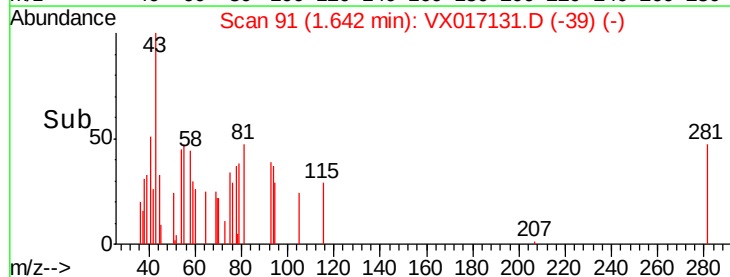
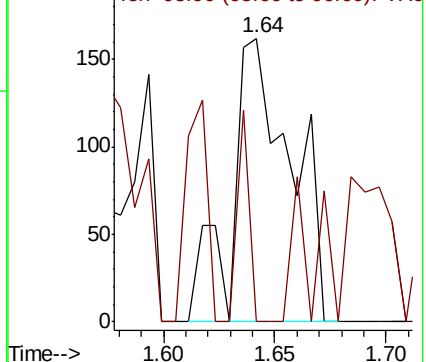
94 100

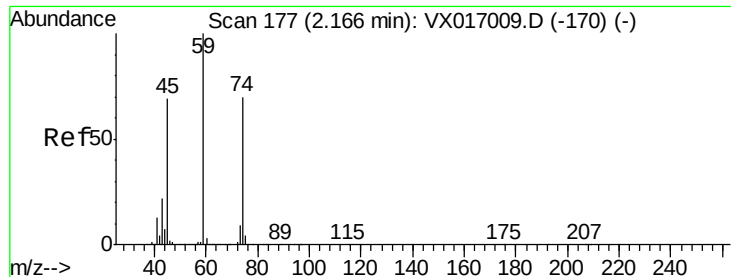
96 0.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

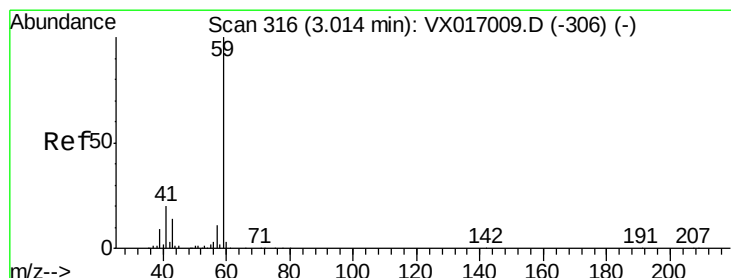
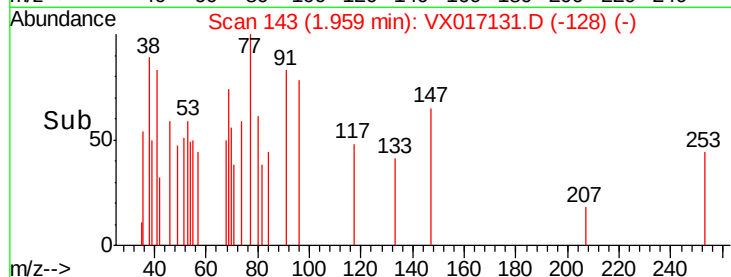
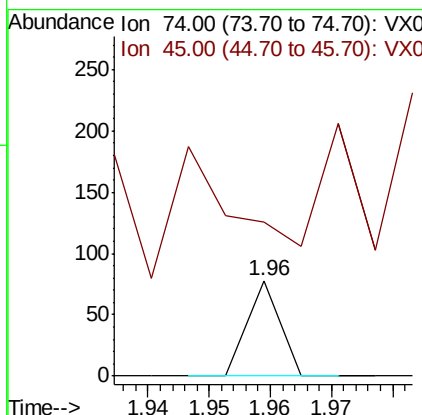
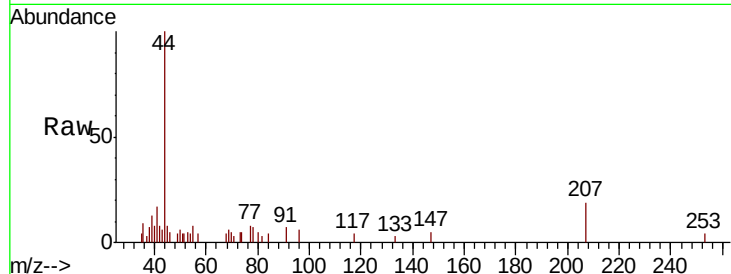




#8
Diethyl Ether
Concen: 0.391 ug/l
RT: 1.96 min Scan# 143
Delta R.T. -0.21 min
Lab File: VX017131.D
Acq: 02 Jul 2020 04:31

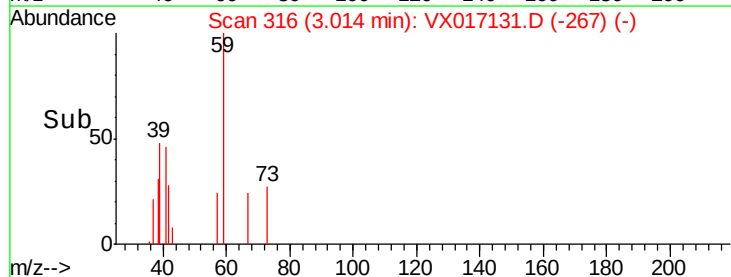
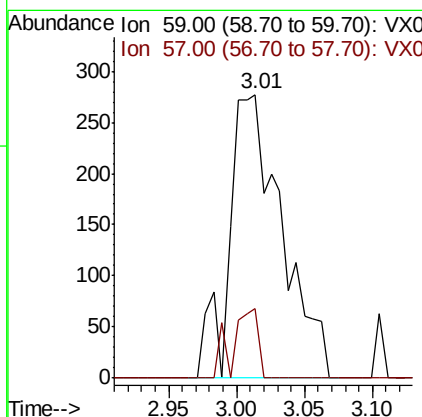
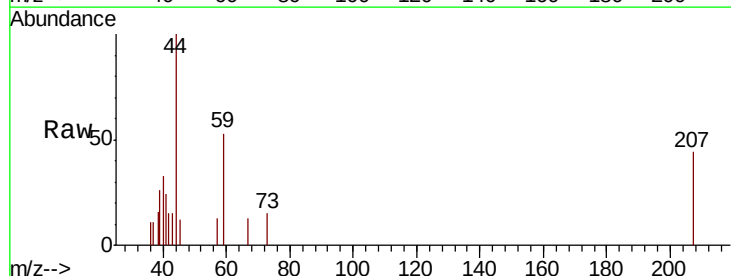
Instrument :
MSVOA_X
ClientSampleId :
51BR-20200629

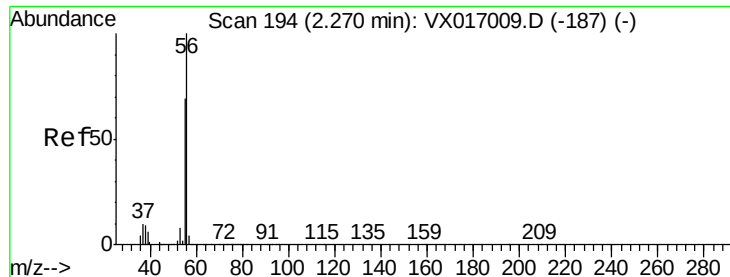
Tot Ion: 74 Resp: 29
Ion Ratio Lower Upper
74 100
45 131.0 49.8 149.3



#11
Tert butyl alcohol
Concen: 1.512 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017131.D
Acq: 02 Jul 2020 04:31

Tgt Ion: 59 Resp: 751
Ion Ratio Lower Upper
59 100
57 11.6 8.2 12.2





#13

Acrolein

Concen: 0.630 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

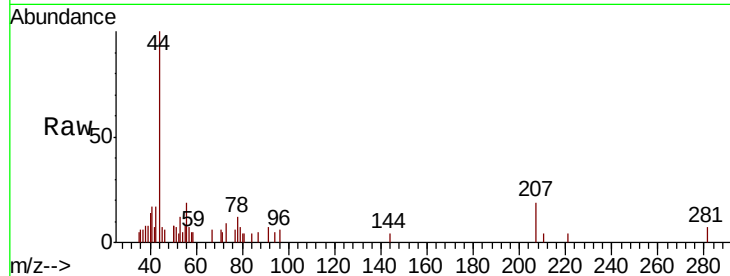
51BR-20200629

Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

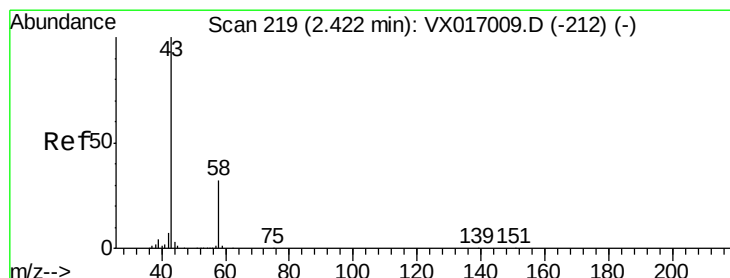
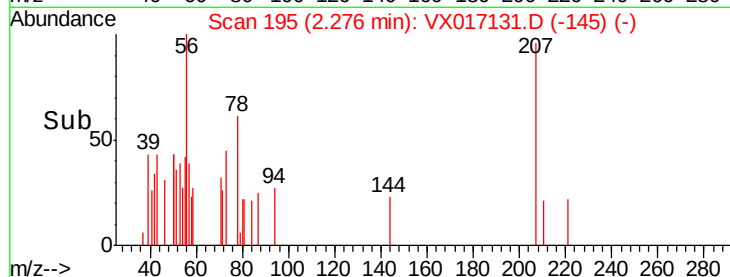
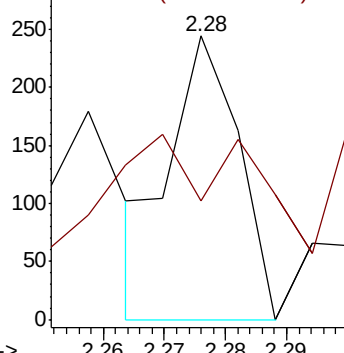
56 100

55 157.8 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.721 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017131.D

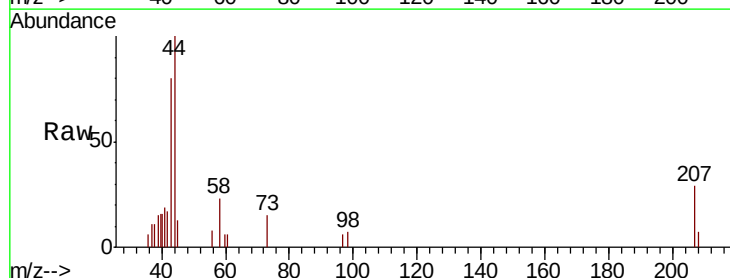
Acq: 02 Jul 2020 04:31

Tgt Ion: 43 Resp: 1676

Ion Ratio Lower Upper

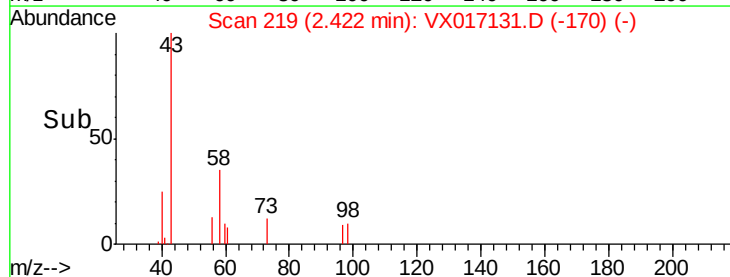
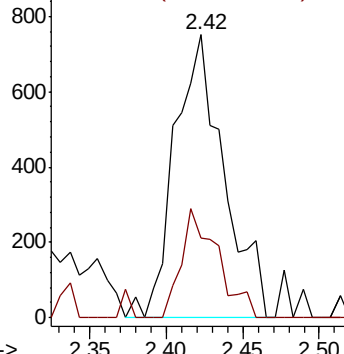
43 100

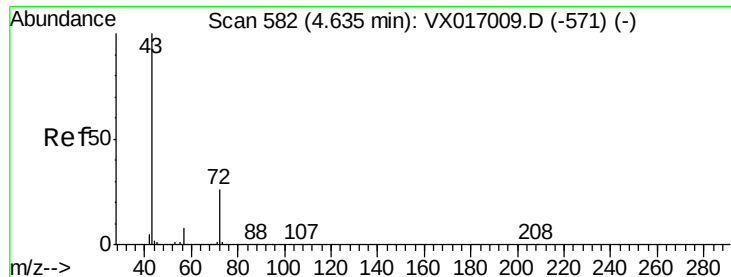
58 28.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 0.240 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

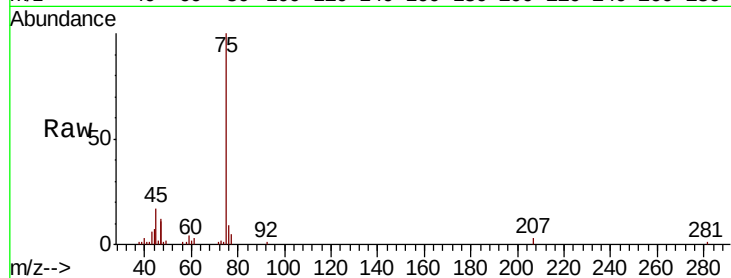
51BR-20200629

Tot Ion: 43 Resp: 389

Ion Ratio Lower Upper

43 100

72 24.2 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

300

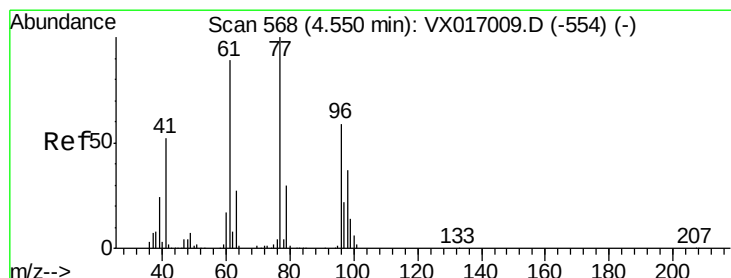
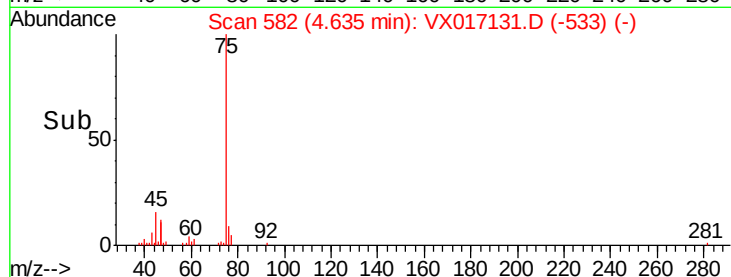
200

100

0

4.60 4.62 4.64 4.66

Time-->



#26

2,2-Dichloropropane

Concen: 0.248 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.09 min

Lab File: VX017131.D

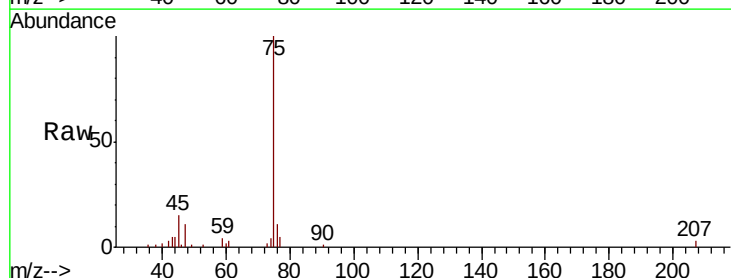
Acq: 02 Jul 2020 04:31

Tgt Ion: 77 Resp: 895

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.64

300

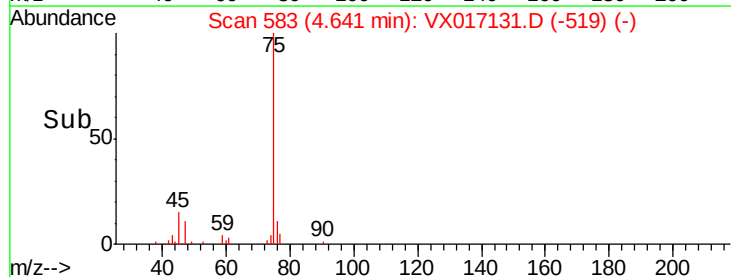
200

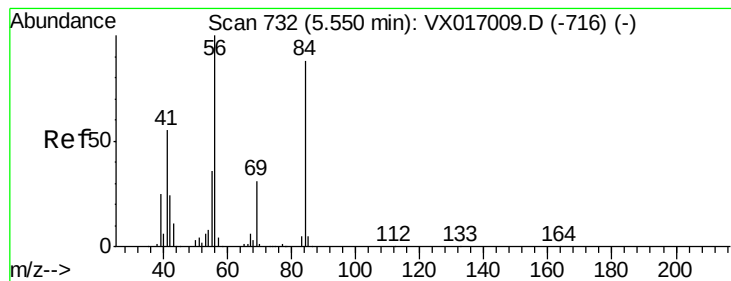
100

0

4.60 4.65

Time-->





#31

Cyclohexane

Concen: 1.252 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

51BR-20200629

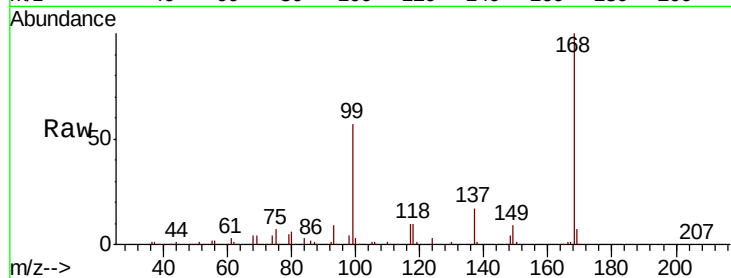
Tot Ion: 56 Resp: 4401

Ion Ratio Lower Upper

56 100

69 192.5 25.0 37.4#

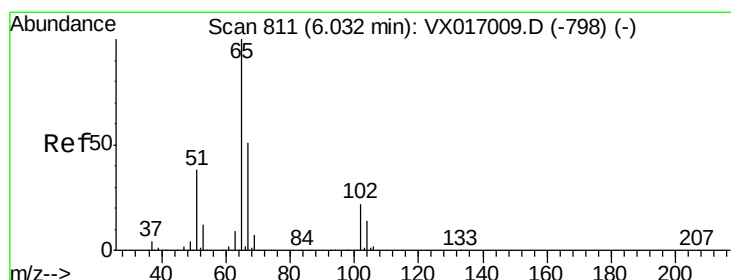
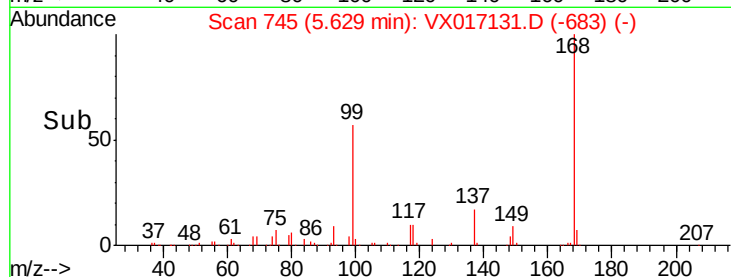
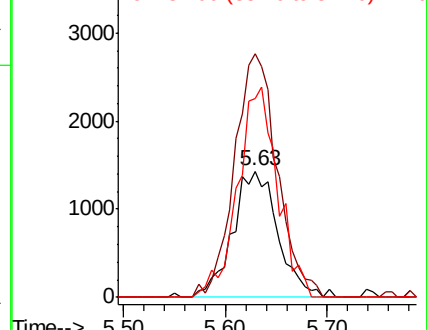
84 157.1 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.538 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017131.D

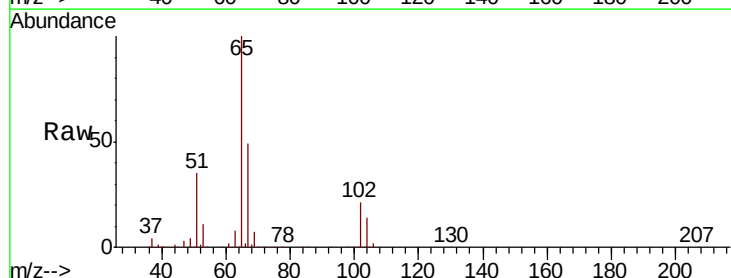
Acq: 02 Jul 2020 04:31

Tgt Ion: 65 Resp: 141975

Ion Ratio Lower Upper

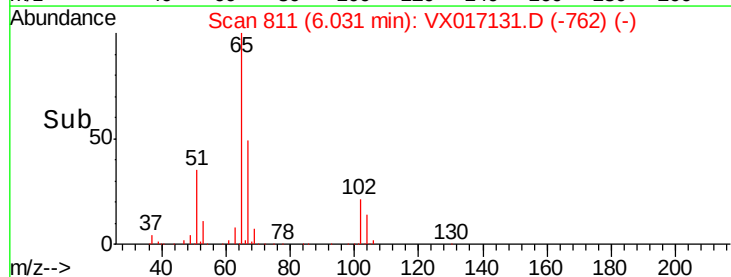
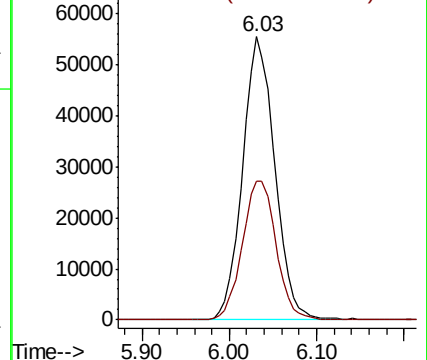
65 100

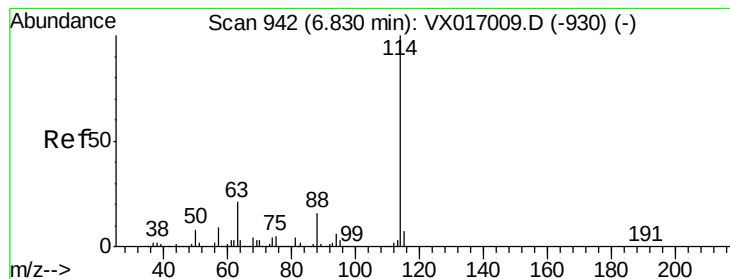
67 51.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

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ClientSampleId :

51BR-20200629

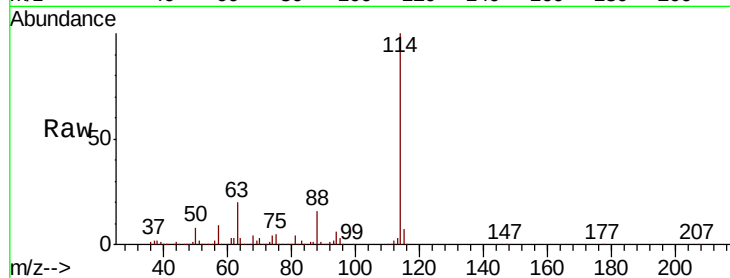
Tot Ion:114 Resp: 362032

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

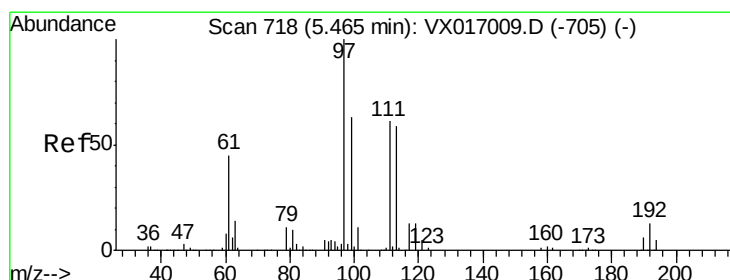
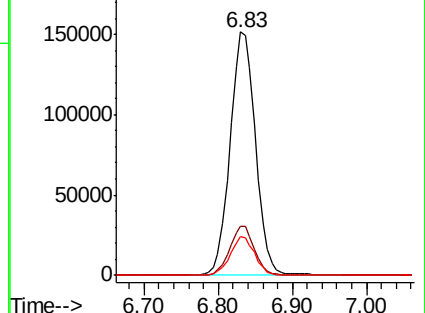
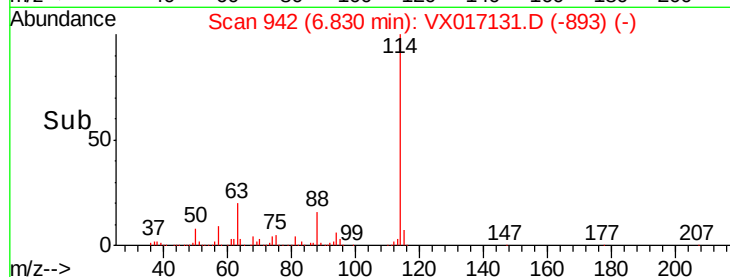
88 16.1 0.0 32.4



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: 52.966 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

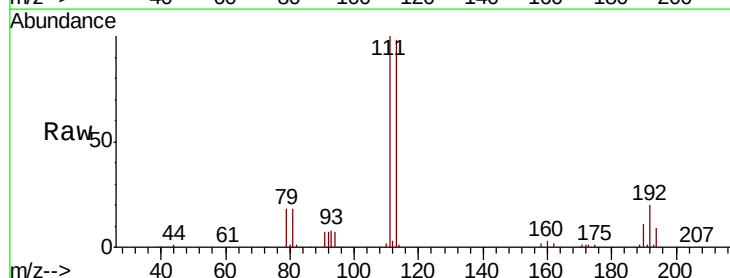
Tgt Ion:113 Resp: 121297

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

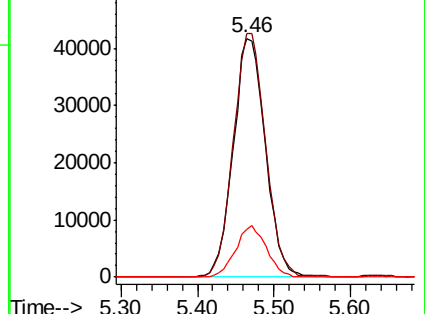
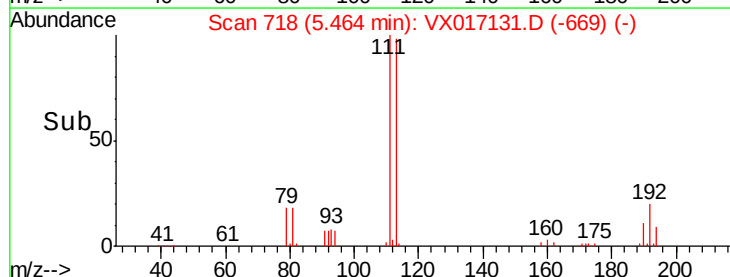
192 20.7 16.7 25.1

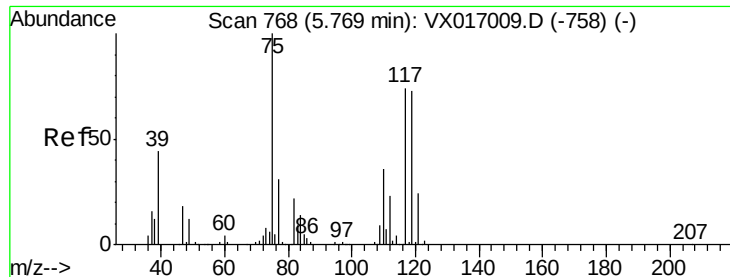


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

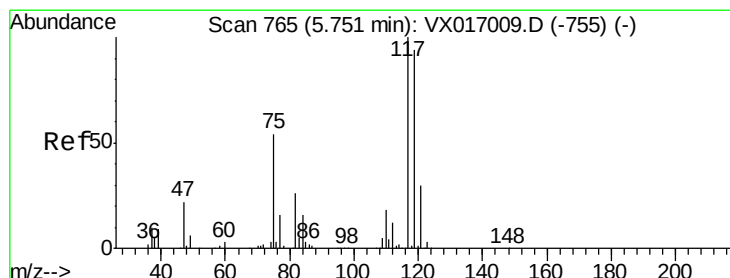
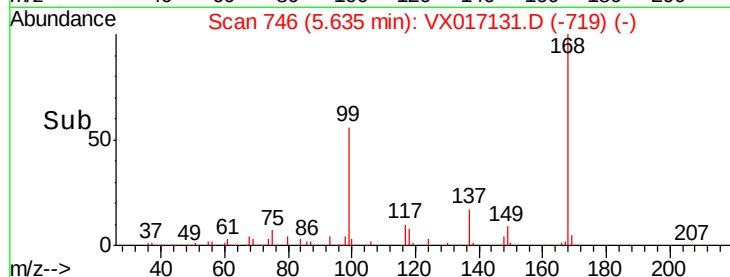
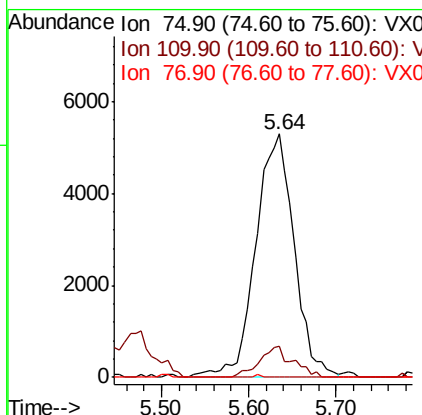
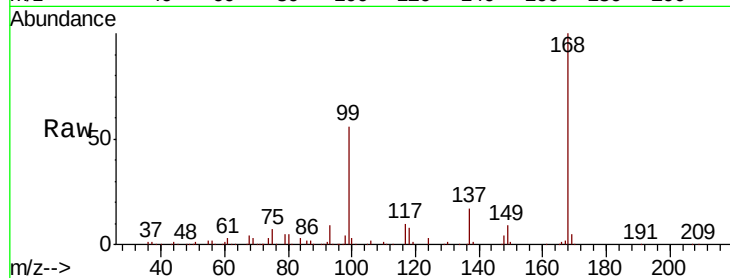




#36
 1,1-Dichloropropene
 Concen: 4.705 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017131.D
 Acq: 02 Jul 2020 04:31

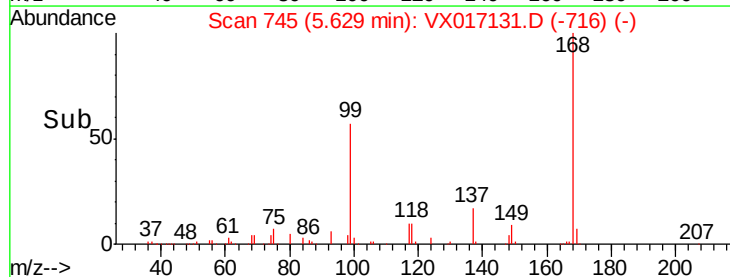
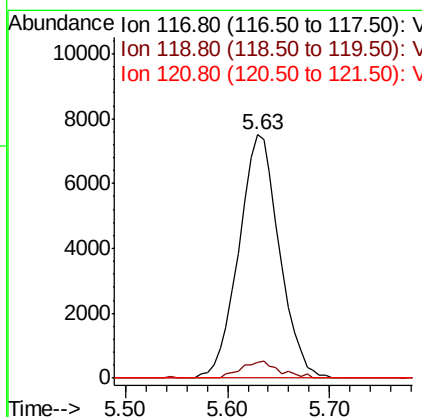
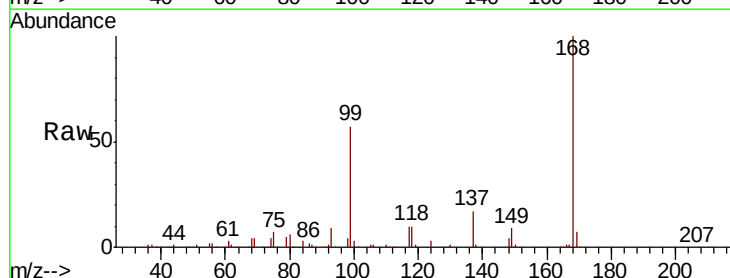
Instrument :
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 ClientSampleId :
 51BR-20200629

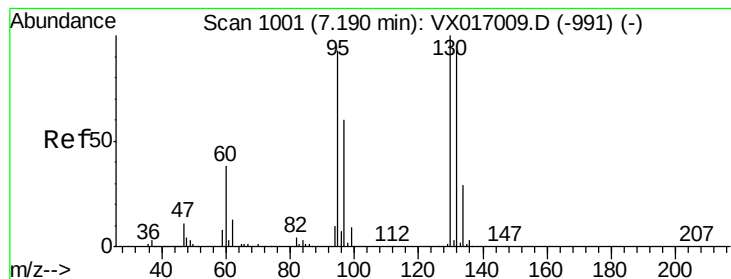
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.1	18.1	54.1#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.493 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017131.D
 Acq: 02 Jul 2020 04:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	75.4	113.0#
121	0.0	23.8	35.6#





#44

Trichloroethene

Concen: Below Cal

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

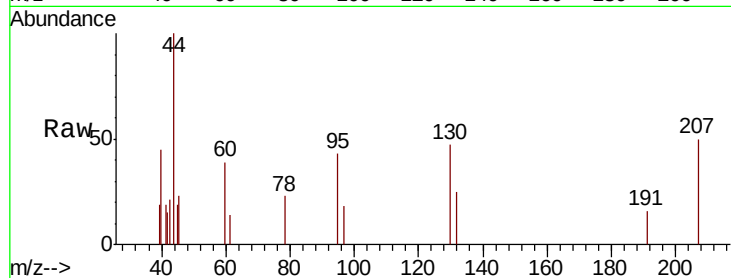
51BR-20200629

Tot Ion:130 Resp: 220

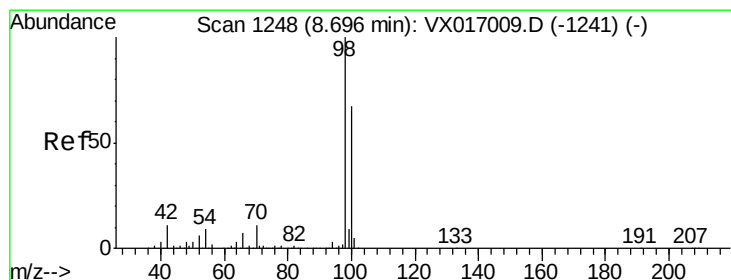
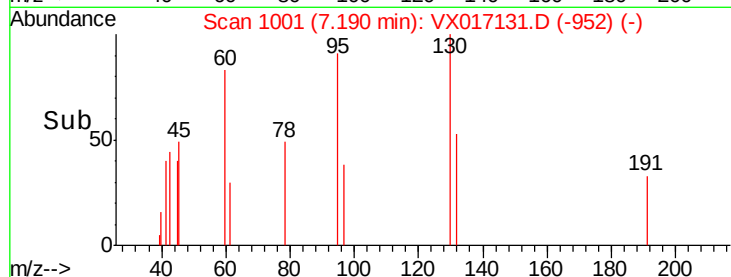
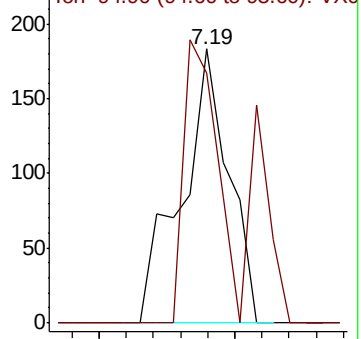
Ion Ratio Lower Upper

130 100

95 91.3 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 51.856 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017131.D

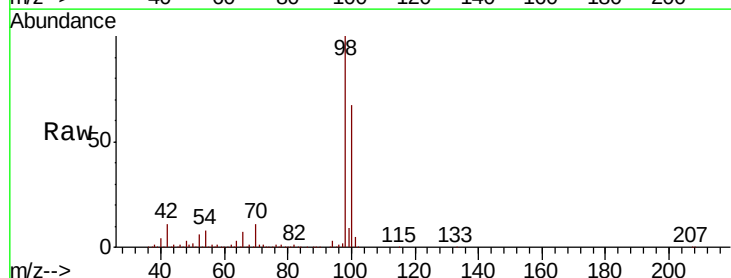
Acq: 02 Jul 2020 04:31

Tgt Ion: 98 Resp: 439134

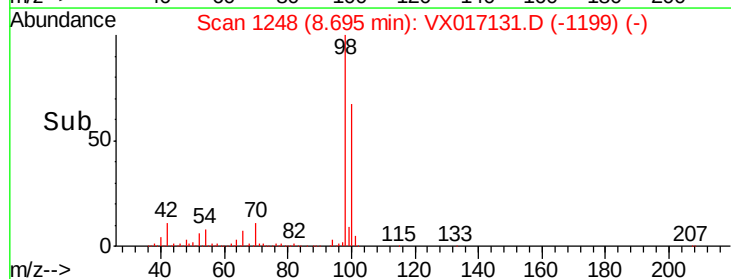
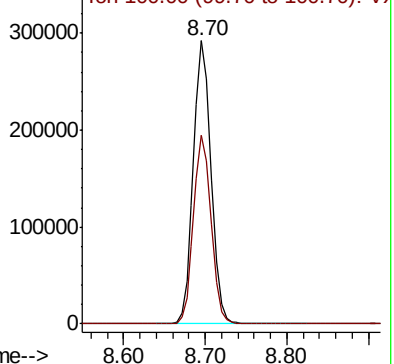
Ion Ratio Lower Upper

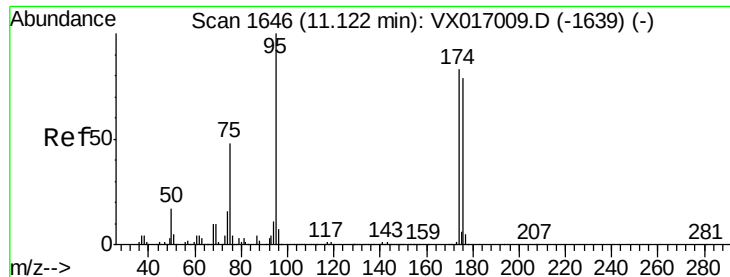
98 100

100 66.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.721 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

51BR-20200629

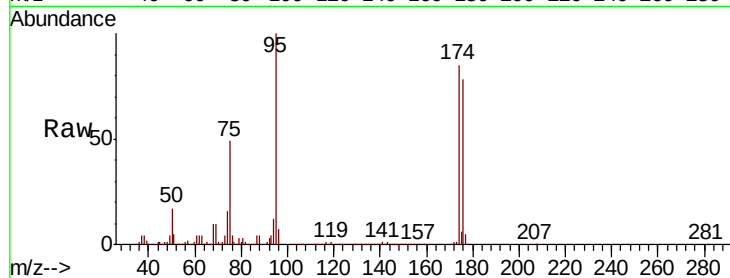
Tot Ion: 95 Resp: 181146

Ion Ratio Lower Upper

95 100

174 83.3 0.0 164.0

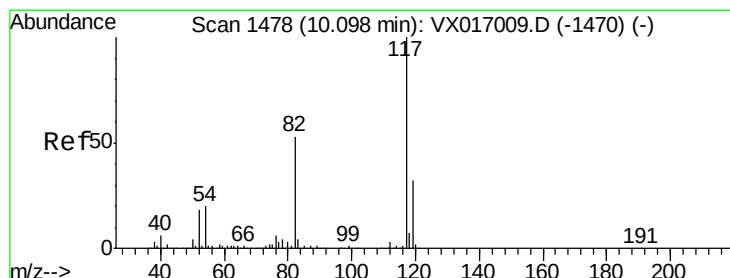
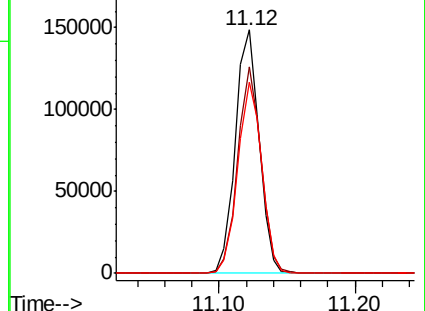
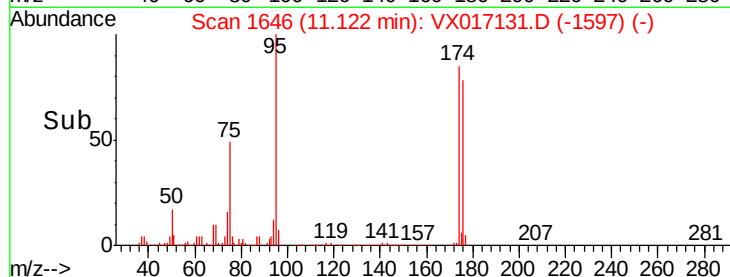
176 79.4 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

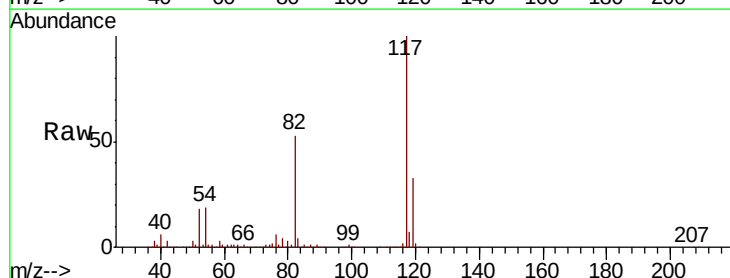
Tgt Ion: 117 Resp: 369619

Ion Ratio Lower Upper

117 100

82 53.4 42.6 63.8

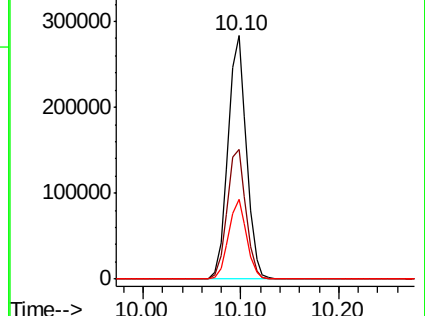
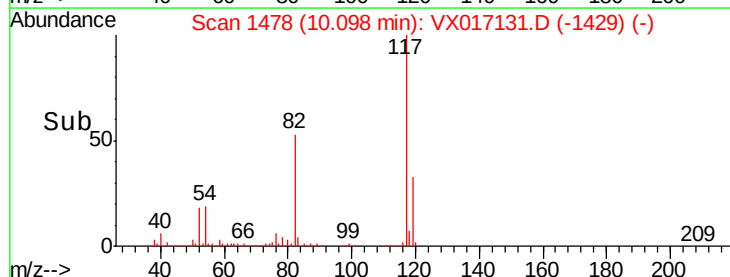
119 32.8 25.4 38.2

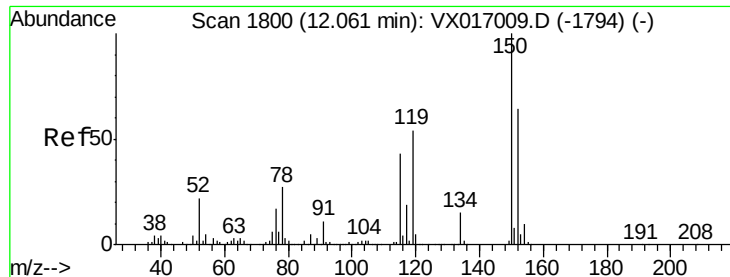


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

51BR-20200629

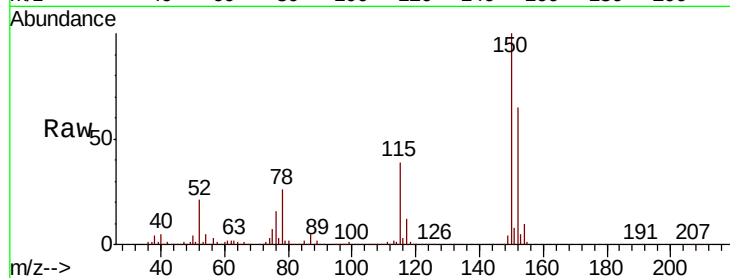
Tot Ion:152 Resp: 194284

Ion Ratio Lower Upper

152 100

115 58.4 40.9 122.7

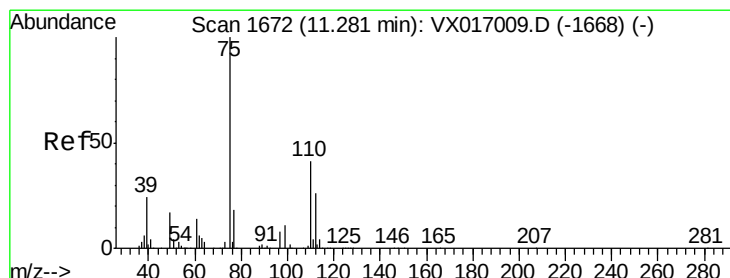
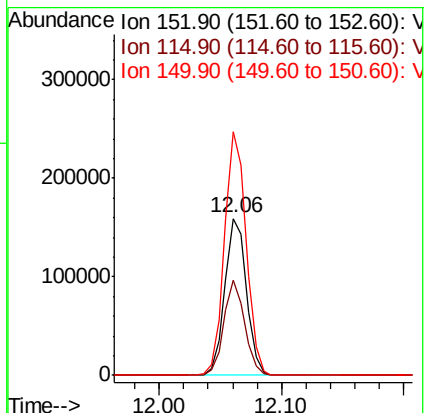
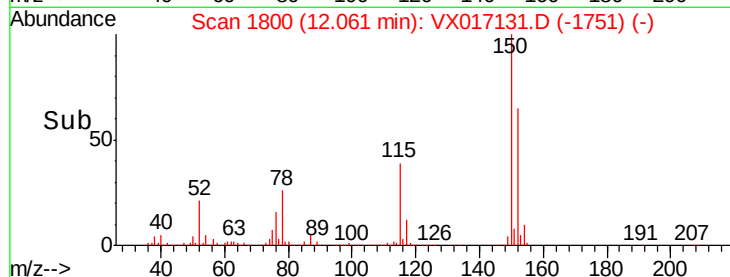
150 155.6 0.0 351.6



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: 23.683 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017131.D

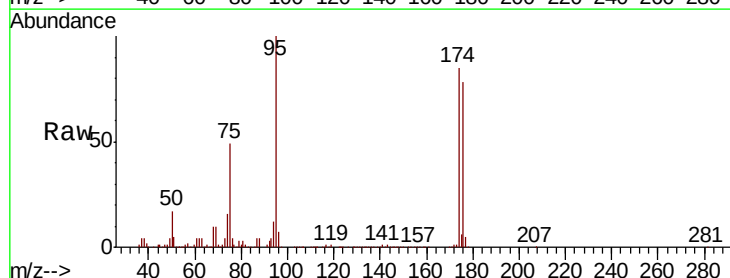
Acq: 02 Jul 2020 04:31

Tgt Ion: 75 Resp: 90480

Ion Ratio Lower Upper

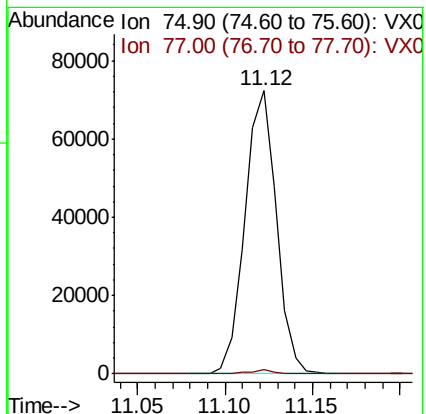
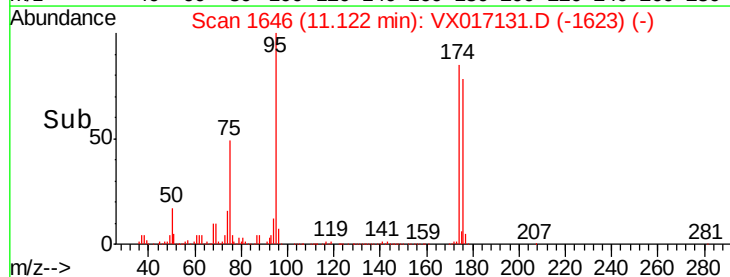
75 100

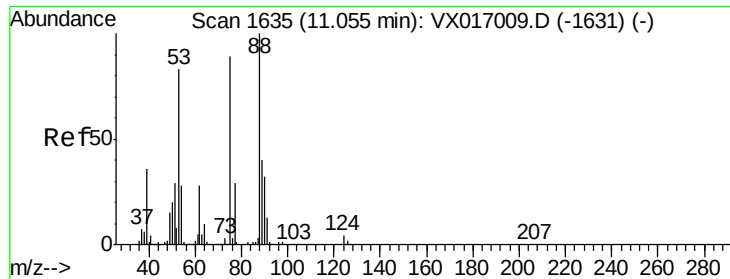
77 1.3 20.2 60.6#



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: 61.330 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

Instrument :

MSVOA_X

ClientSampleId :

51BR-20200629

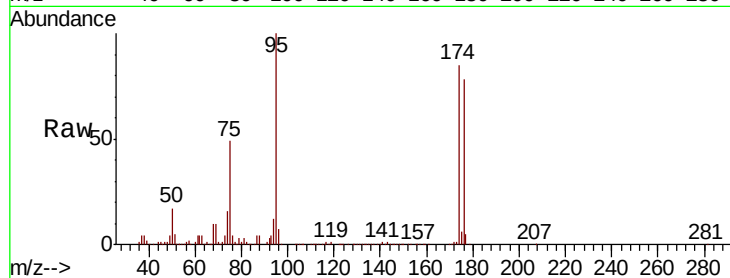
Tot Ion: 75 Resp: 90480

Ion Ratio Lower Upper

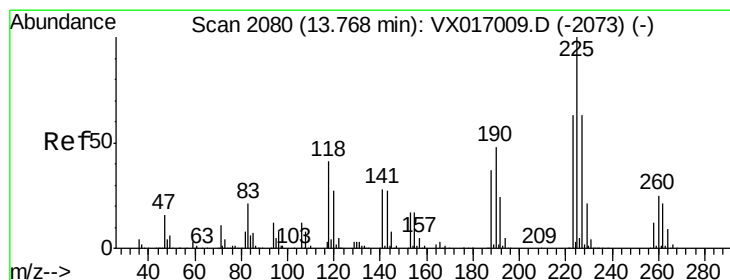
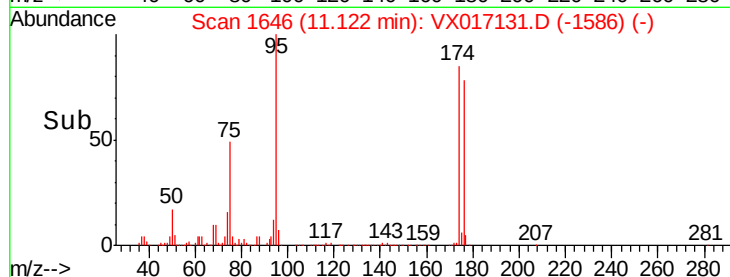
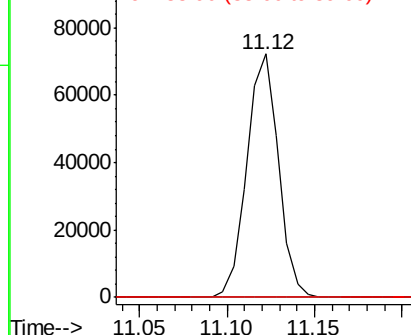
75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.861 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017131.D

Acq: 02 Jul 2020 04:31

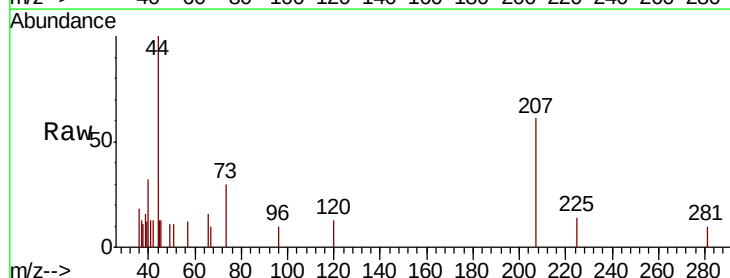
Tgt Ion: 225 Resp: 27

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 0.0 33.1 99.2#



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

