

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013131.D
 Acq On : 18 Oct 2019 16:44
 Operator : JC/SP
 Sample : K5450-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-MMW0330-9001

Quant Time: Oct 18 23:58:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	173690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	272825	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	227522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92658	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	103139	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
35) Dibromofluoromethane	5.49	113	82199	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
50) Toluene-d8	8.71	98	315241	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	11.14	95	109485	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	

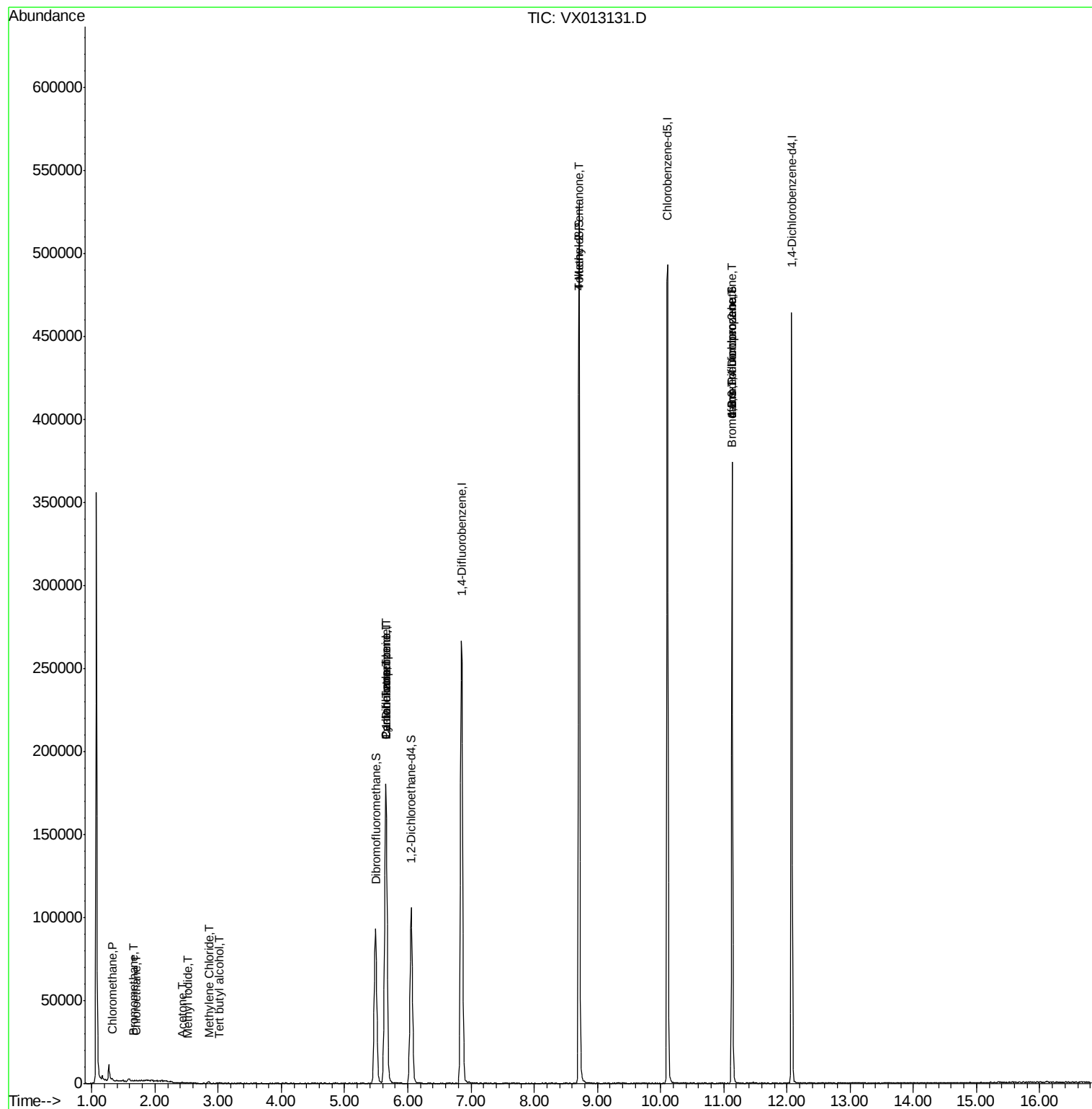
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	456	0.237	ug/l #	85
5) Bromomethane	1.65	94	329	0.398	ug/l #	63
6) Chloroethane	1.71	64	164	0.502	ug/l #	43
10) Methyl Iodide	2.51	142	164	5.156	ug/l #	40
11) Tert butyl alcohol	3.01	59	233	0.405	ug/l #	72
16) Acetone	2.43	43	707	0.618	ug/l #	75
20) Methylene Chloride	2.86	84	515	0.245	ug/l #	68
31) Cyclohexane	5.65	56	3156	1.002	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12730	5.307	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16632	7.124	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1171	0.436	ug/l #	1
71) Bromoform	11.12	173	132	3.225	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	52506	25.549	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	52506	64.415	ug/l #	10

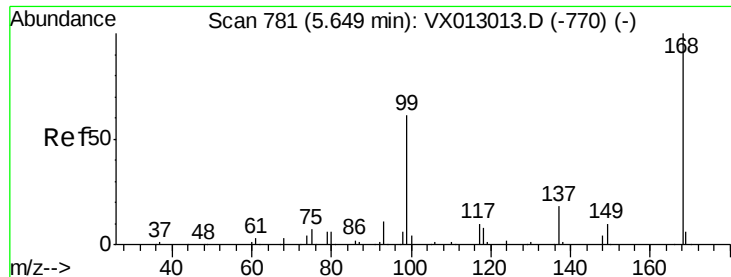
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

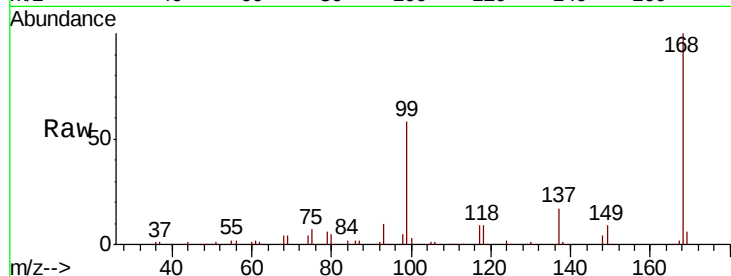
FA19-MMW0330-9001

Tot Ion:168 Resp: 173690

Ion Ratio Lower Upper

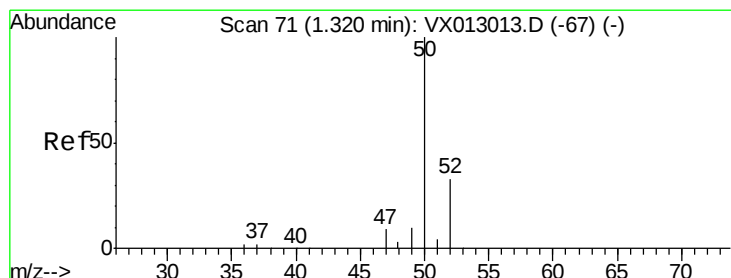
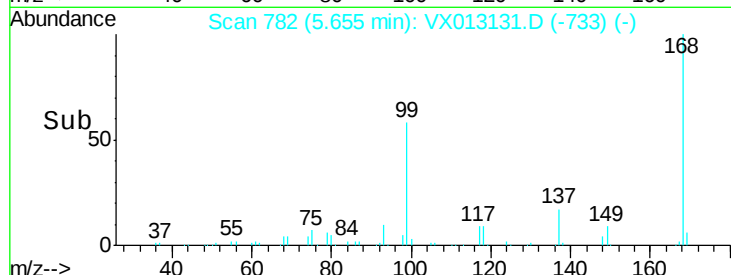
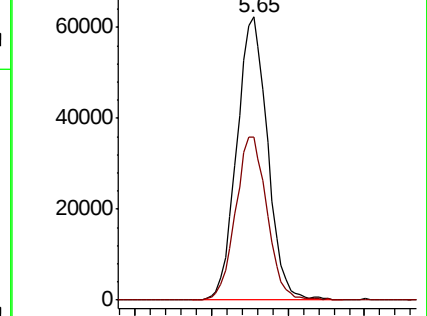
168 100

99 57.6 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013131.D

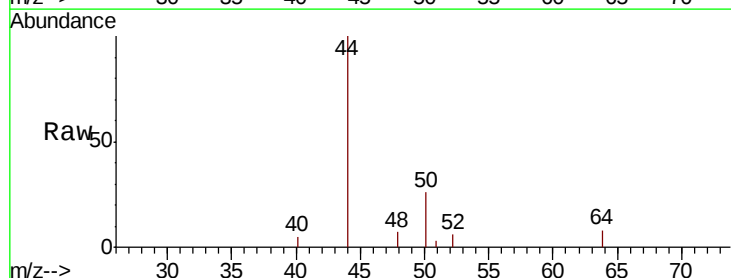
Acq: 18 Oct 2019 16:44

Tgt Ion: 50 Resp: 456

Ion Ratio Lower Upper

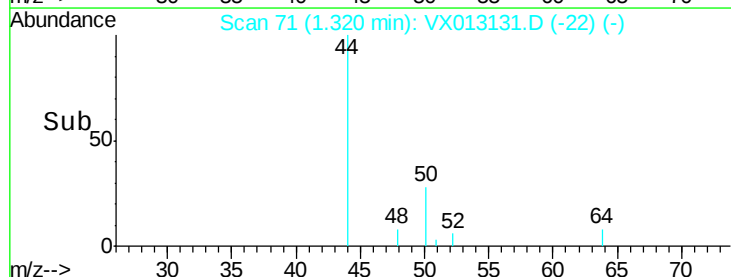
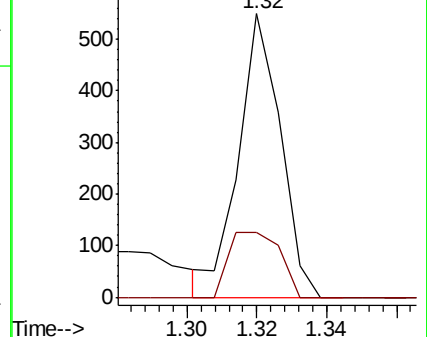
50 100

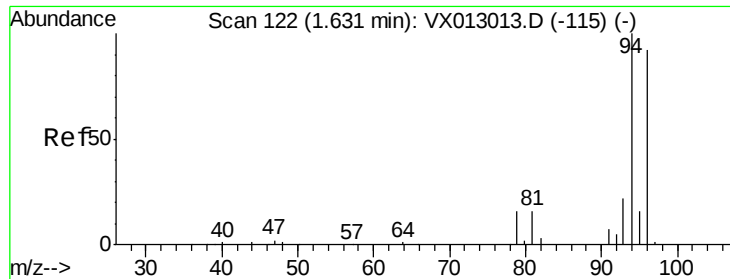
52 23.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.398 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

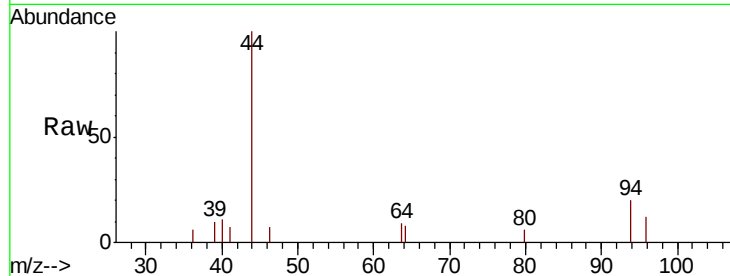
FA19-MMW0330-9001

Tot Ion: 94 Resp: 329

Ion Ratio Lower Upper

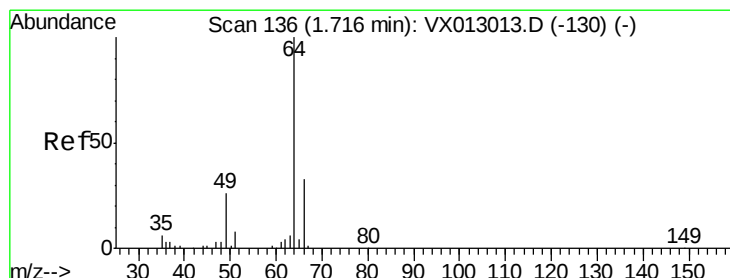
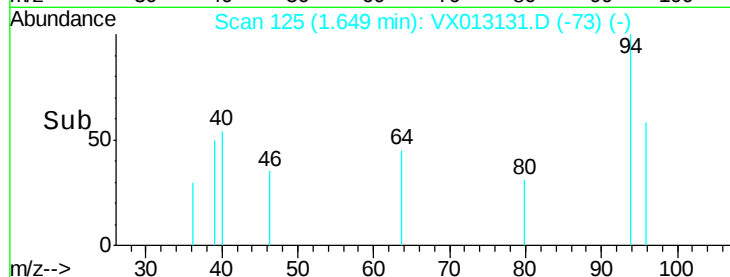
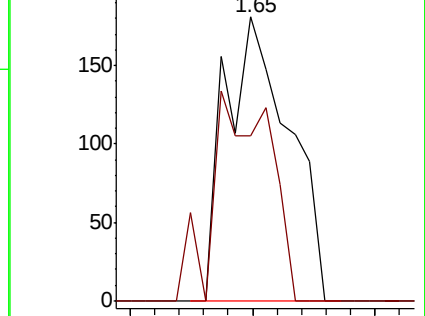
94 100

96 58.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.502 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013131.D

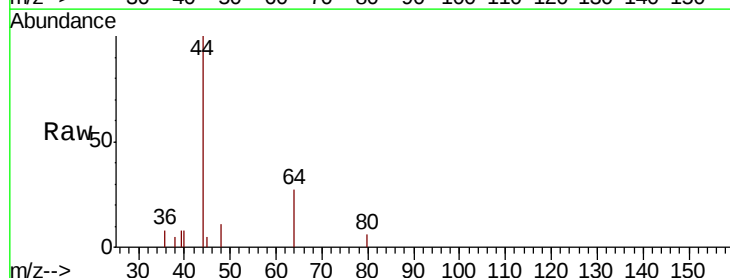
Acq: 18 Oct 2019 16:44

Tgt Ion: 64 Resp: 164

Ion Ratio Lower Upper

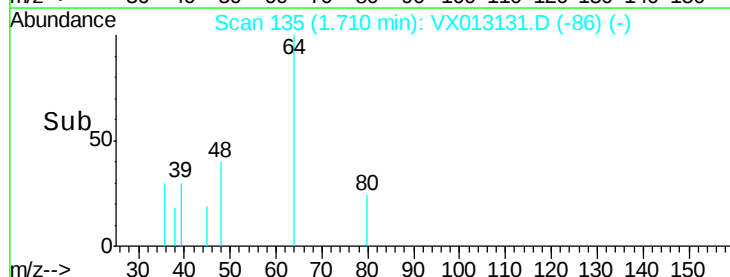
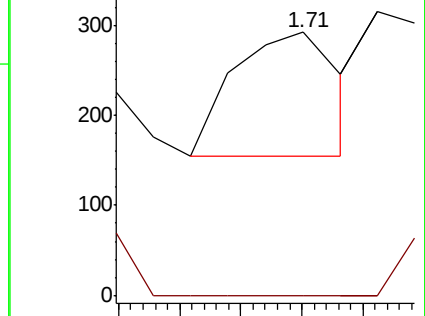
64 100

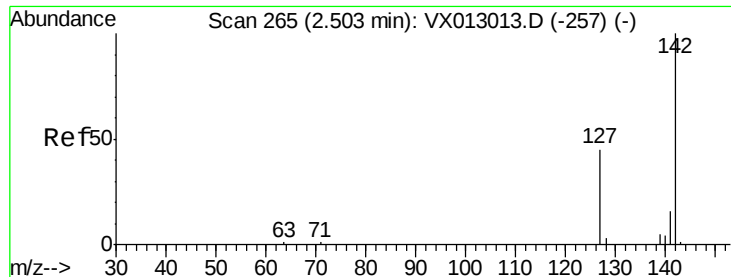
66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

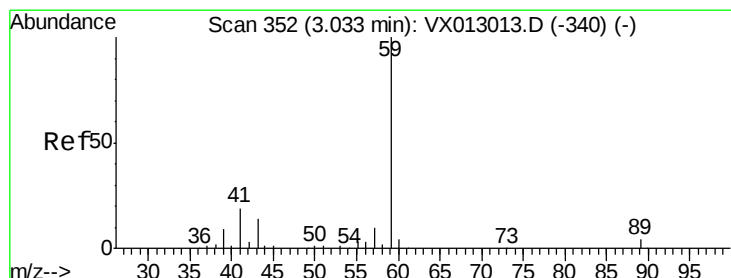
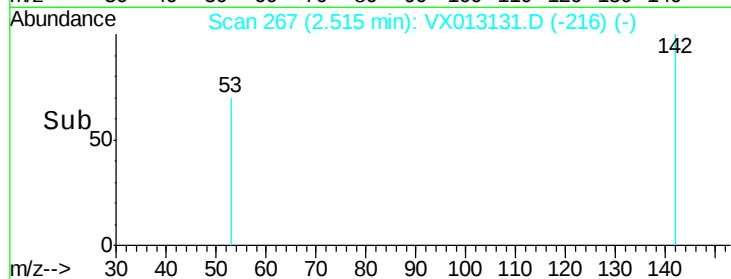
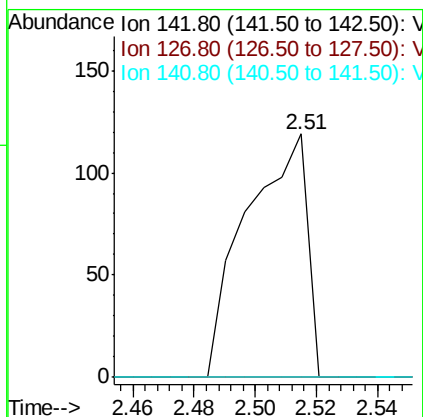
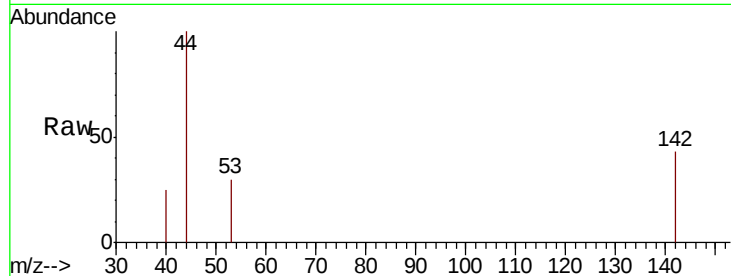




#10
Methvl Iodide
Concen: 5.156 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX013131.D
Acq: 18 Oct 2019 16:44

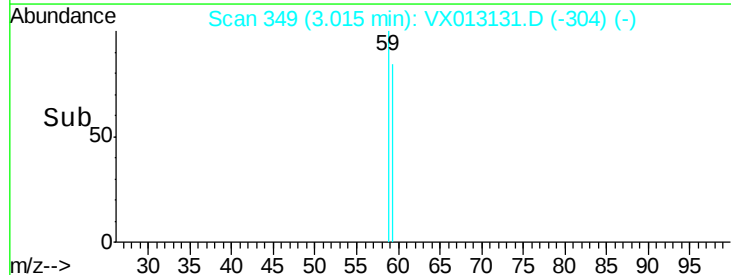
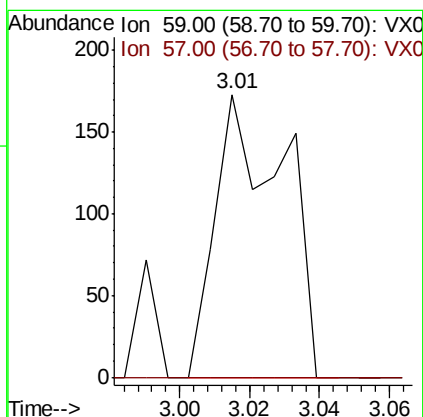
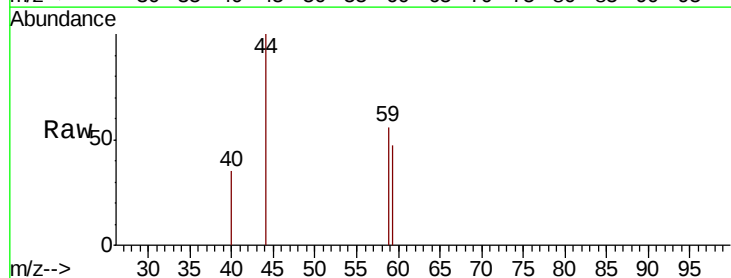
Instrument :
MSVOA_X
ClientSampleId :
FA19-MMW0330-9001

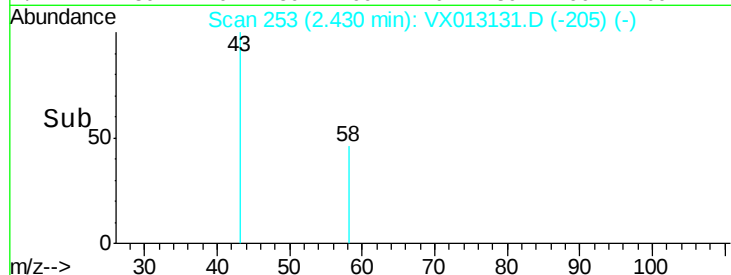
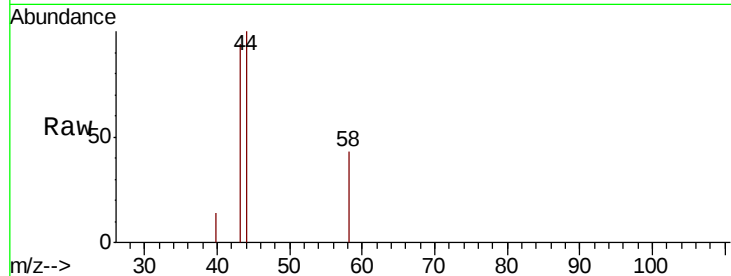
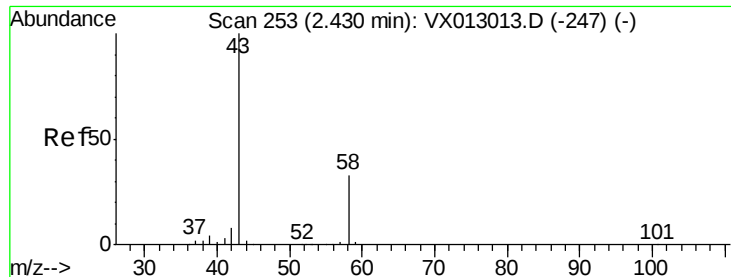
Tot Ion:142 Resp: 164
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.405 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX013131.D
Acq: 18 Oct 2019 16:44

Tgt Ion: 59 Resp: 233
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 0.618 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

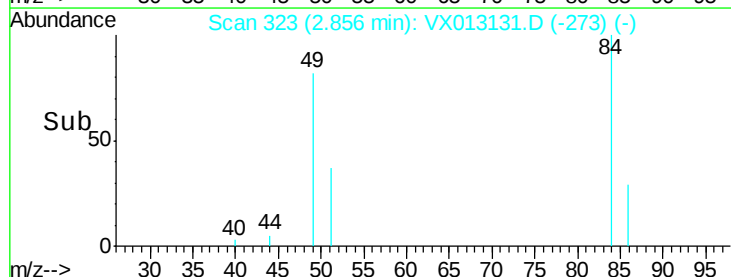
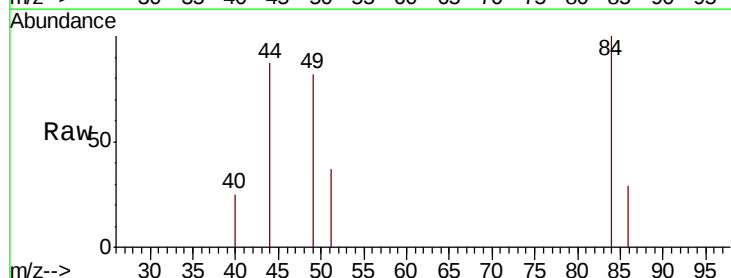
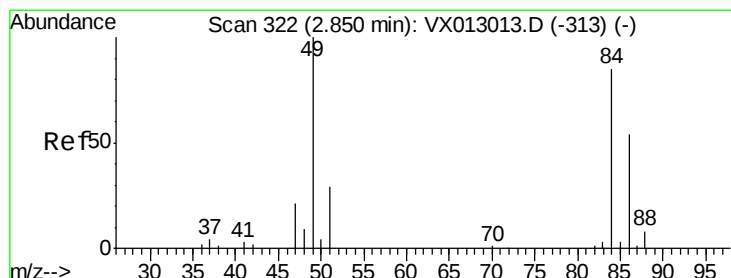
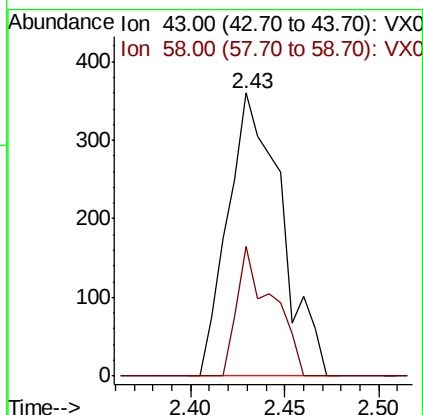
FA19-MMW0330-9001

Tot Ion: 43 Resp: 707

Ion Ratio Lower Upper

43 100

58 45.8 25.4 38.2#



#20

Methylene Chloride

Concen: 0.245 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Tgt Ion: 84 Resp: 515

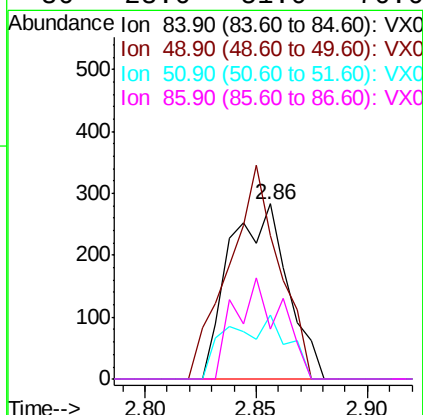
Ion Ratio Lower Upper

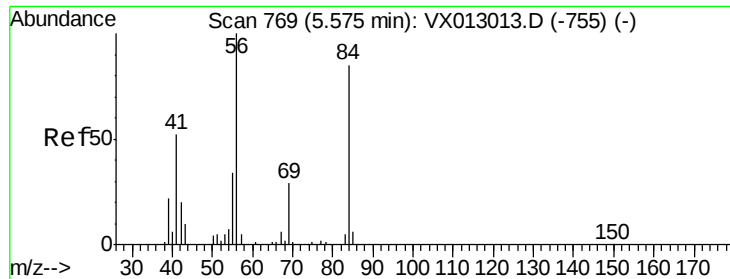
84 100

49 81.6 96.6 144.8#

51 36.7 30.7 46.1

86 28.6 51.0 76.6#





#31

Cyclohexane

Concen: 1.002 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0330-9001

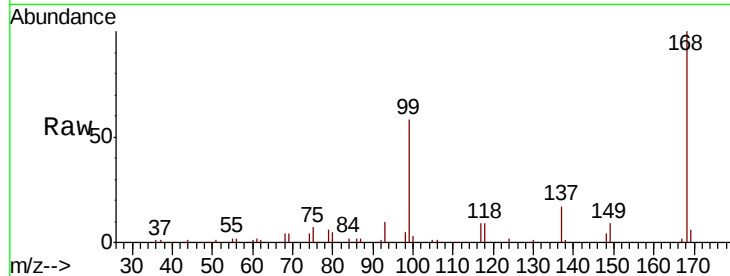
Tot Ion: 56 Resp: 3156

Ion Ratio Lower Upper

56 100

69 195.7 25.2 37.8#

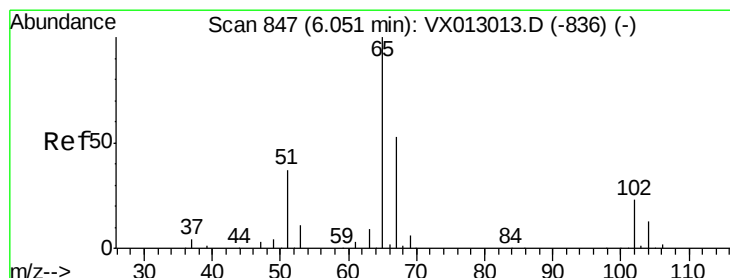
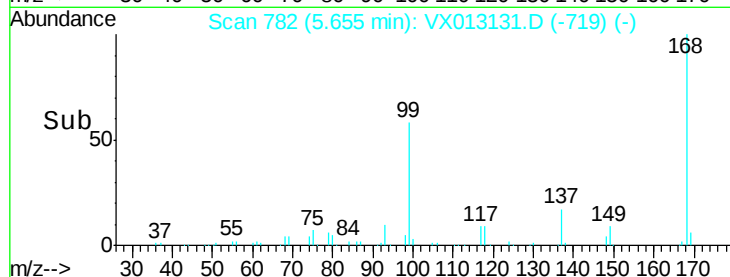
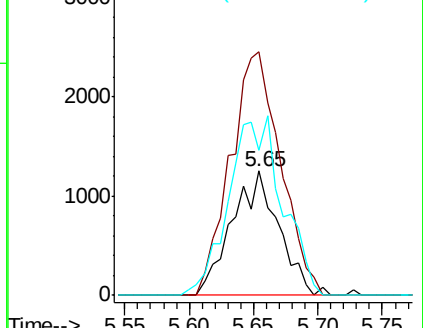
84 116.3 71.3 106.9#



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: 47.510 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX013131.D

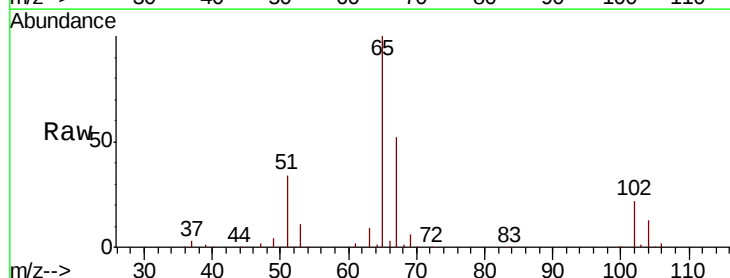
Acq: 18 Oct 2019 16:44

Tgt Ion: 65 Resp: 103139

Ion Ratio Lower Upper

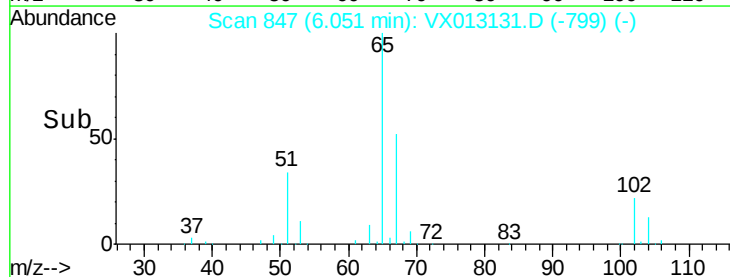
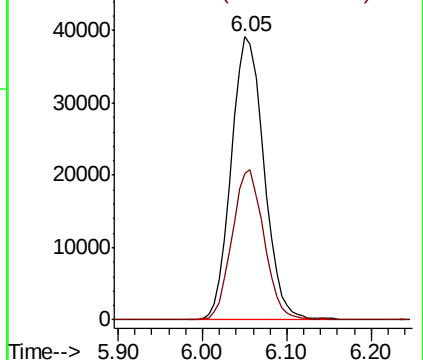
65 100

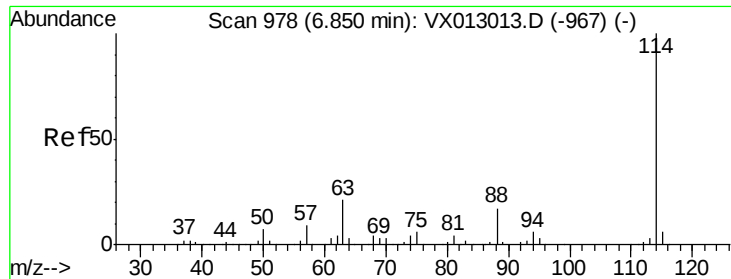
67 51.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

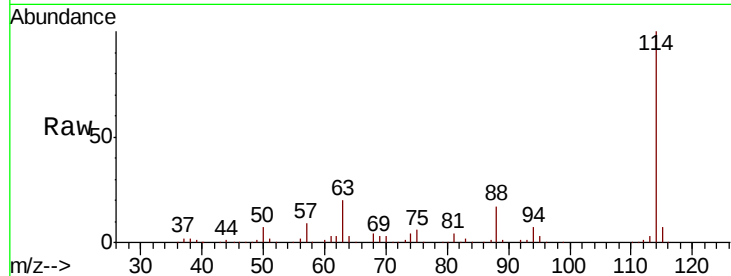




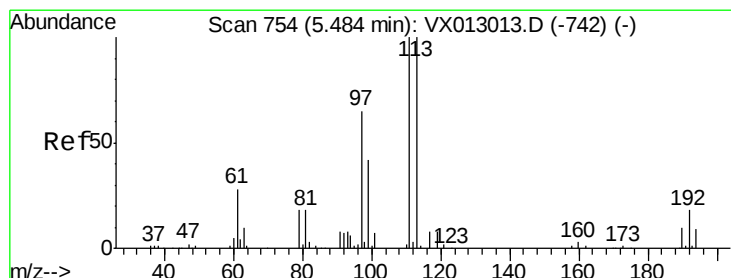
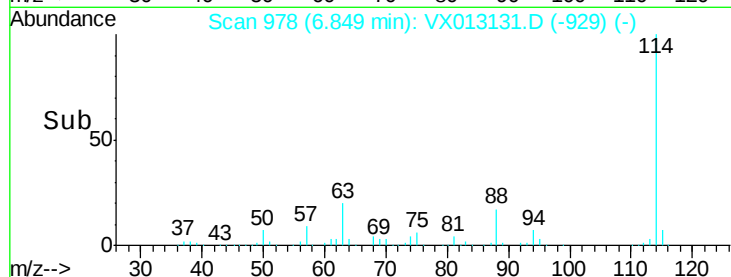
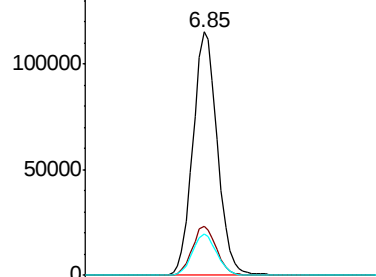
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013131.D
Acq: 18 Oct 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
FA19-MMW0330-9001

Tot Ion:114 Resp: 272825
Ion Ratio Lower Upper
114 100
63 20.0 0.0 40.8
88 17.0 0.0 33.8

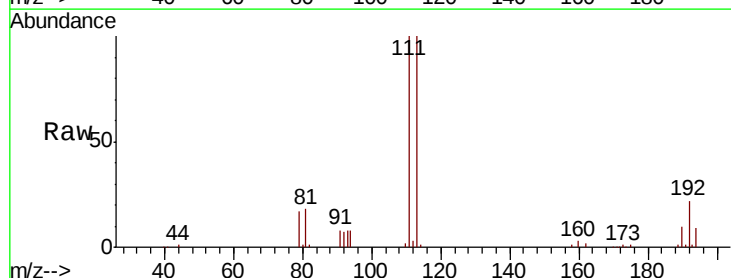


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

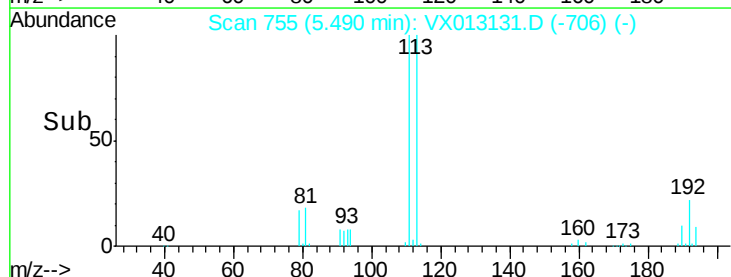
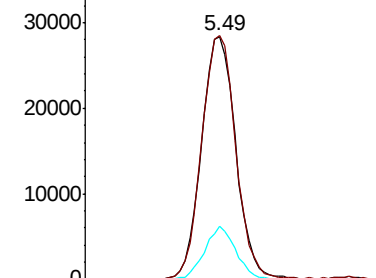


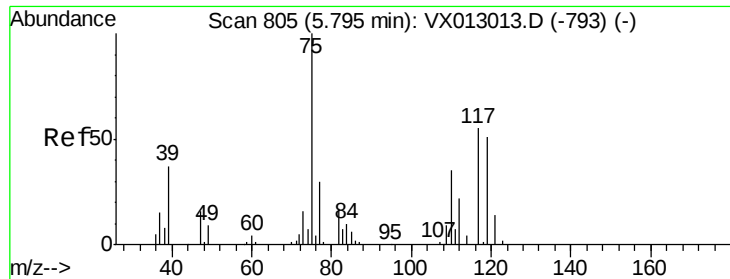
#35
Dibromofluoromethane
Concen: 52.494 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013131.D
Acq: 18 Oct 2019 16:44

Tgt Ion:113 Resp: 82199
Ion Ratio Lower Upper
113 100
111 100.1 83.2 124.8
192 19.7 15.4 23.2



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

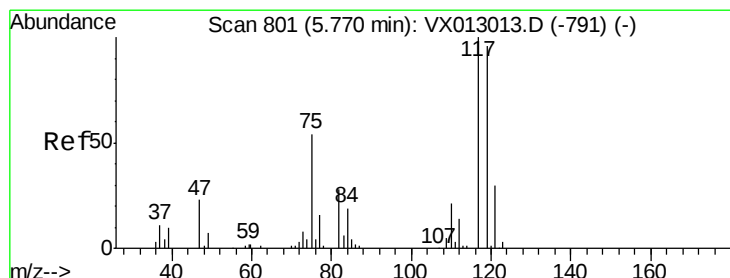
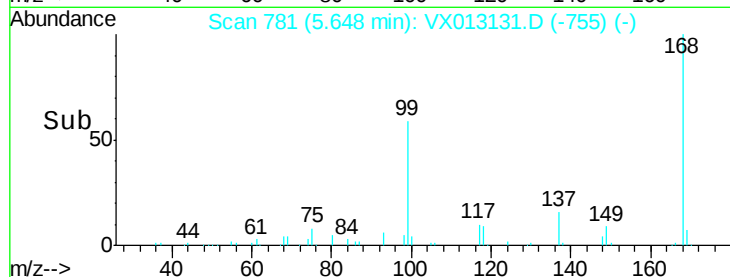
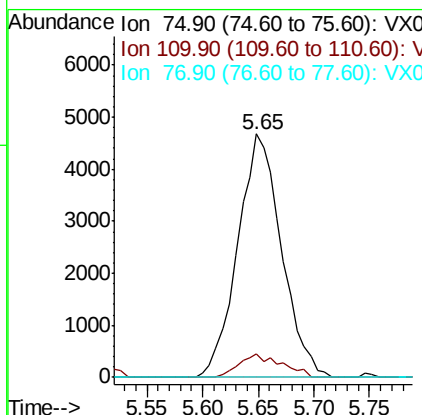
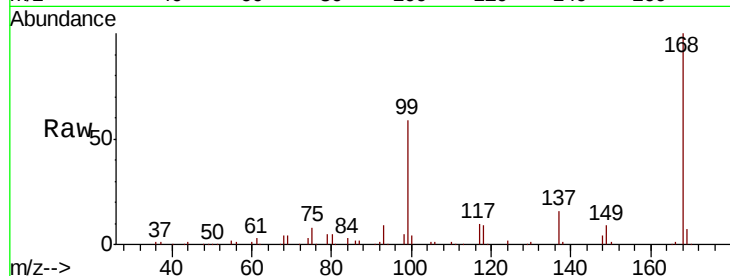




#36
 1,1-Dichloropropene
 Concen: 5.307 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013131.D
 Acq: 18 Oct 2019 16:44

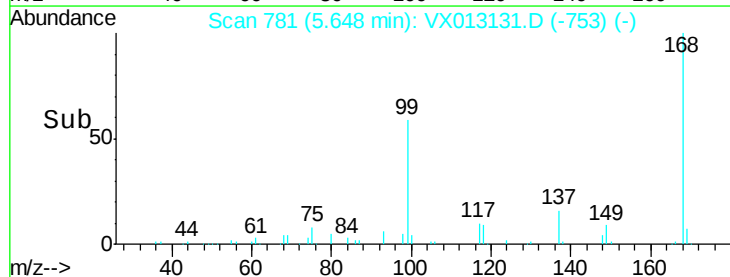
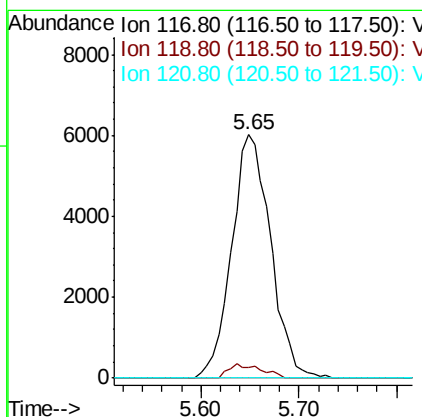
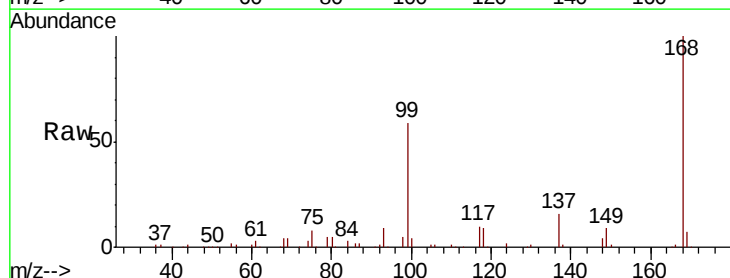
Instrument :
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 FA19-MMW0330-9001

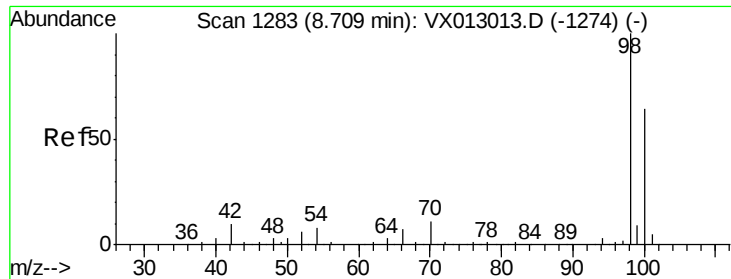
Tot Ion	75	Resp	12730
Ion Ratio	100	Lower	Upper
75	100		
110	9.3	17.6	52.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 7.124 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013131.D
 Acq: 18 Oct 2019 16:44

Tgt Ion	117	Resp	16632
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.5	74.5	111.7#
121	0.0	24.2	36.4#





#50

Toluene-d8

Concen: 51.617 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

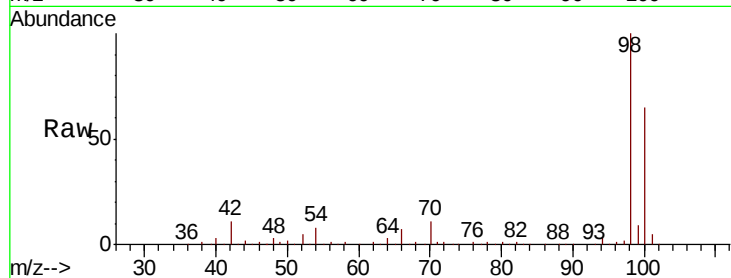
FA19-MMW0330-9001

Tot Ion: 98 Resp: 315241

Ion Ratio Lower Upper

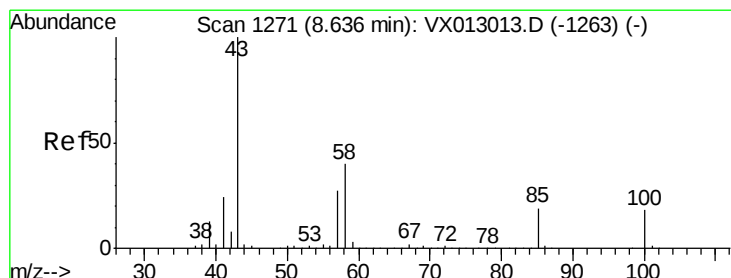
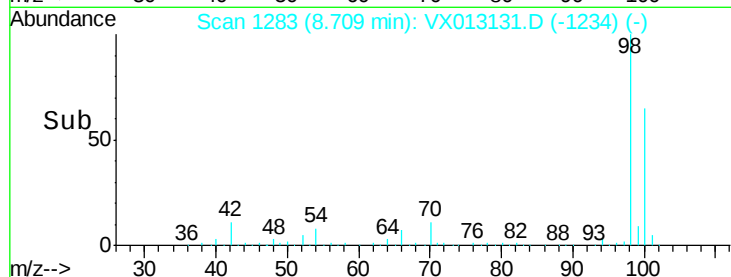
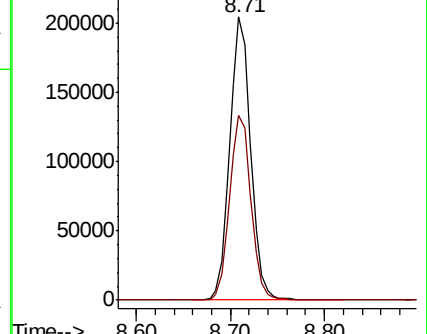
98 100

100 66.5 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.436 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013131.D

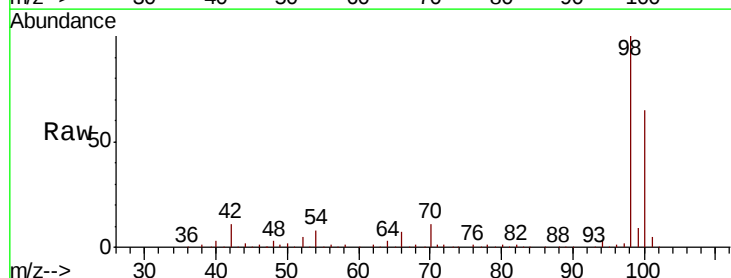
Acq: 18 Oct 2019 16:44

Tgt Ion: 43 Resp: 1171

Ion Ratio Lower Upper

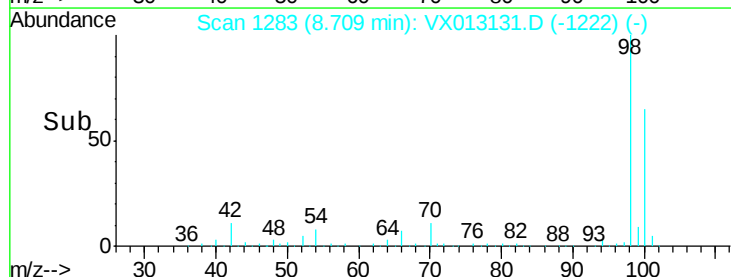
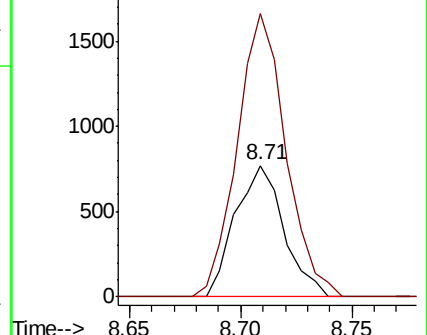
43 100

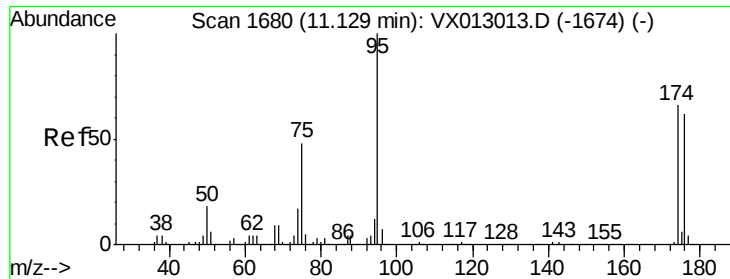
58 215.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.137 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0330-9001

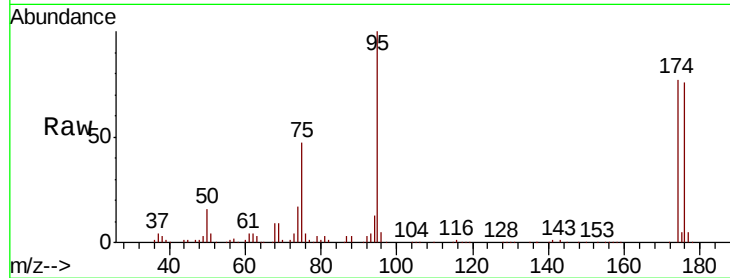
Tot Ion: 95 Resp: 109485

Ion Ratio Lower Upper

95 100

174 73.2 0.0 143.4

176 70.1 0.0 136.0

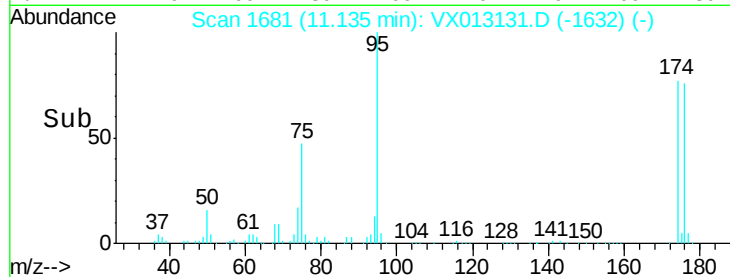


Abundance Ion 94.90 (94.60 to 95.60): VX0

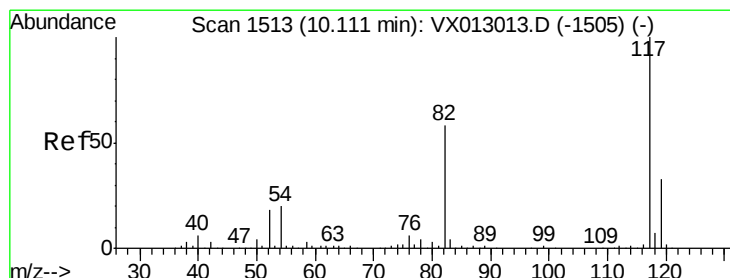
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

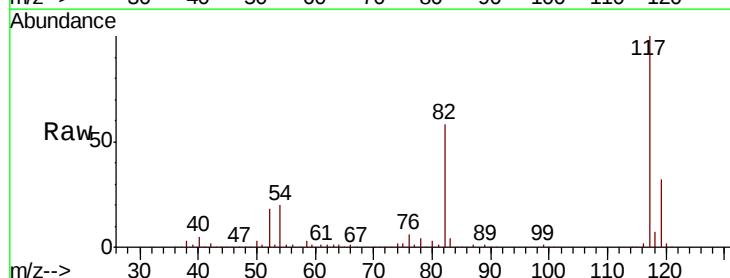
Tgt Ion: 117 Resp: 227522

Ion Ratio Lower Upper

117 100

82 57.9 44.1 66.1

119 31.9 25.8 38.8

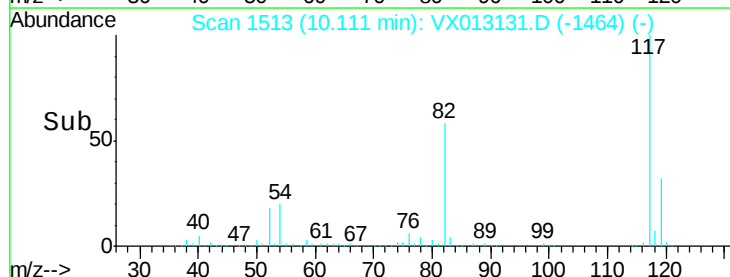


Abundance Ion 116.90 (116.60 to 117.60): V

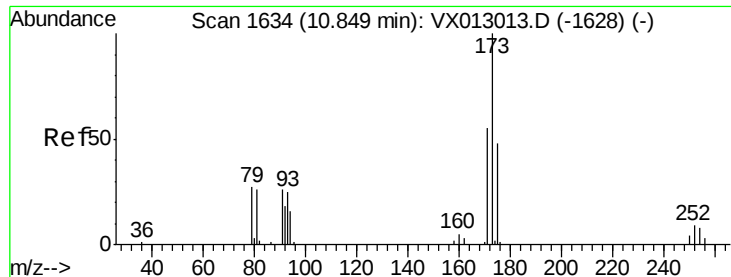
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

Time-->



Time-->



#71

Bromoform

Concen: 3.225 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0330-9001

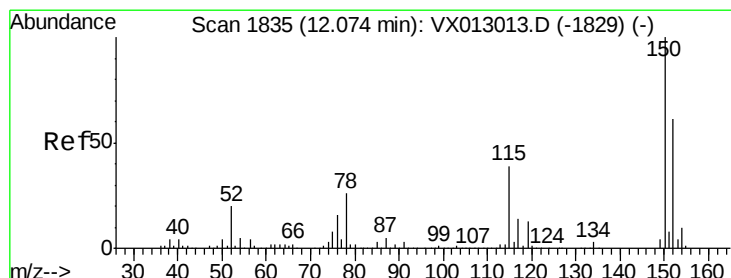
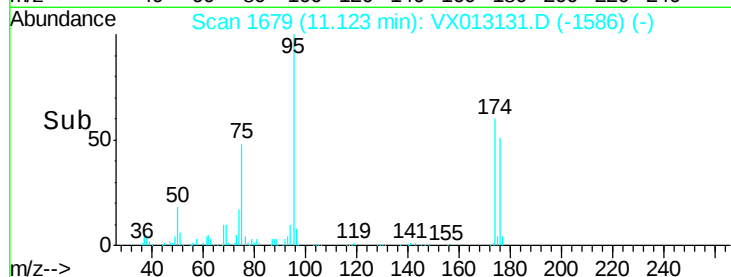
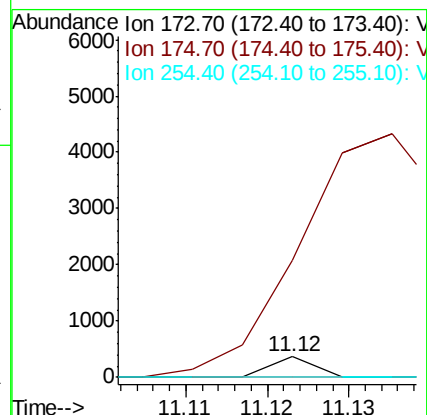
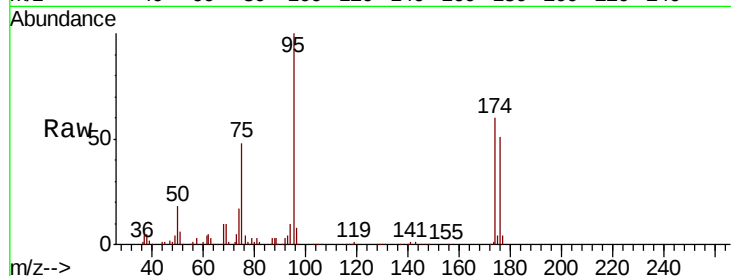
Tot Ion:173 Resp: 132

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

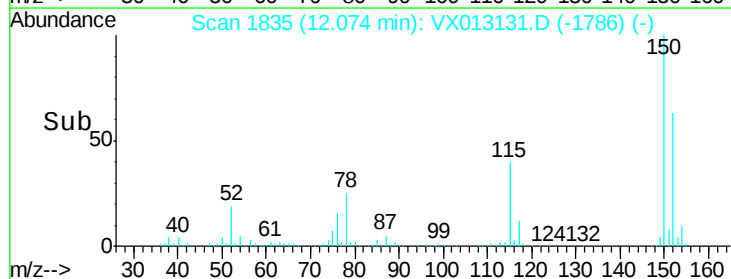
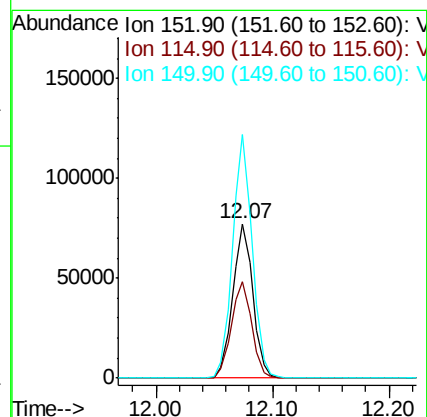
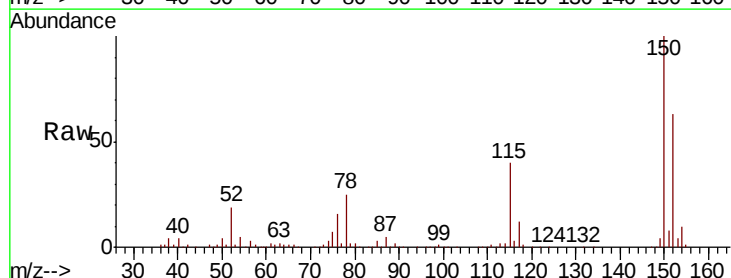
Tgt Ion:152 Resp: 92658

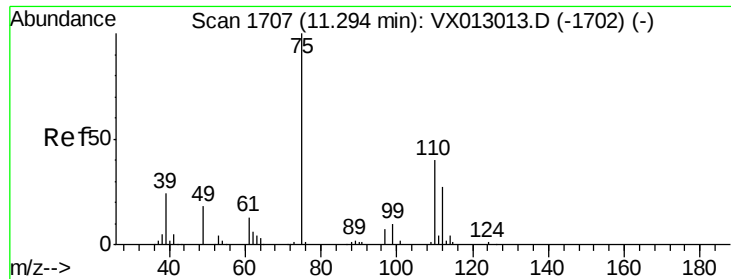
Ion Ratio Lower Upper

152 100

115 63.0 44.5 133.5

150 153.2 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 25.549 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

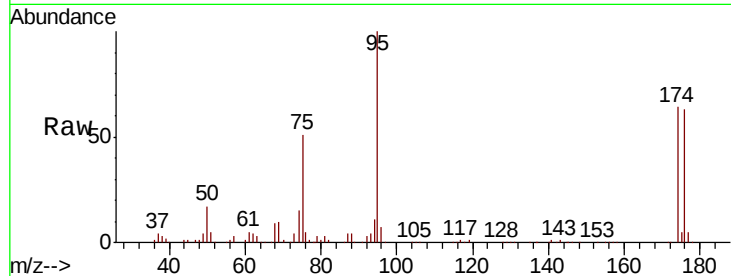
FA19-MMW0330-9001

Tot Ion: 75 Resp: 52506

Ion Ratio Lower Upper

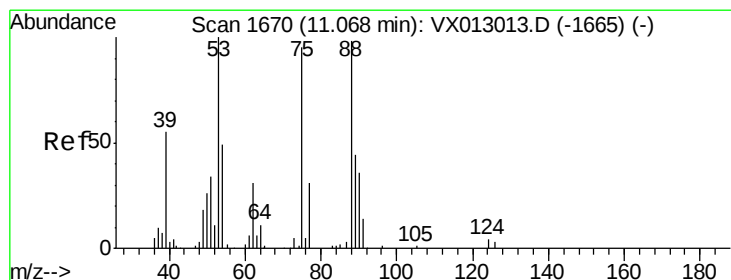
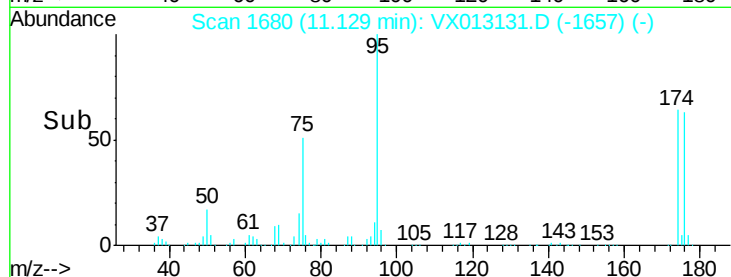
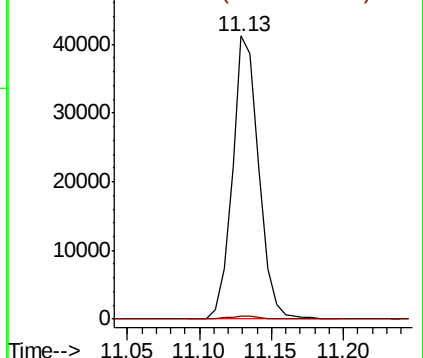
75 100

77 1.1 22.9 68.8#



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: 64.415 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013131.D

Acq: 18 Oct 2019 16:44

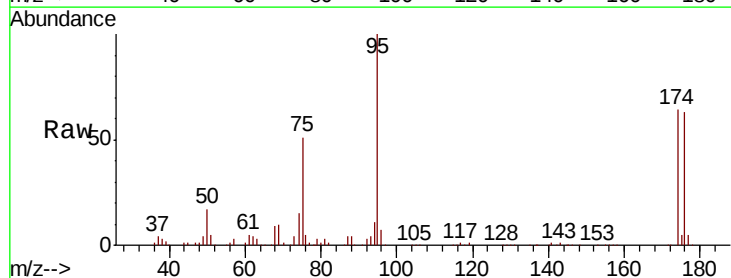
Tgt Ion: 75 Resp: 52506

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 37.4 56.2#



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

