

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041819\
 Data File : BF113820.D
 Acq On : 18 Apr 2019 16:38
 Operator : JU/SJ
 Sample : K2411-11
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 18 17:02:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 13:55:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	190309	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	696608	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	335006	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	579783	20.00	ng	0.00
76) Chrysene-d12	14.04	240	467698	20.00	ng	0.00
87) Perylene-d12	15.51	264	608311	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	1070470	93.53	ng	0.00
7) Phenol-d6	6.52	99	1355490	94.97	ng	0.00
23) Nitrobenzene-d5	7.45	82	824545	72.08	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	327537	88.49	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1518191	69.11	ng	0.00
79) Terphenyl-d14	12.99	244	1486777	66.66	ng	0.00

Target Compounds

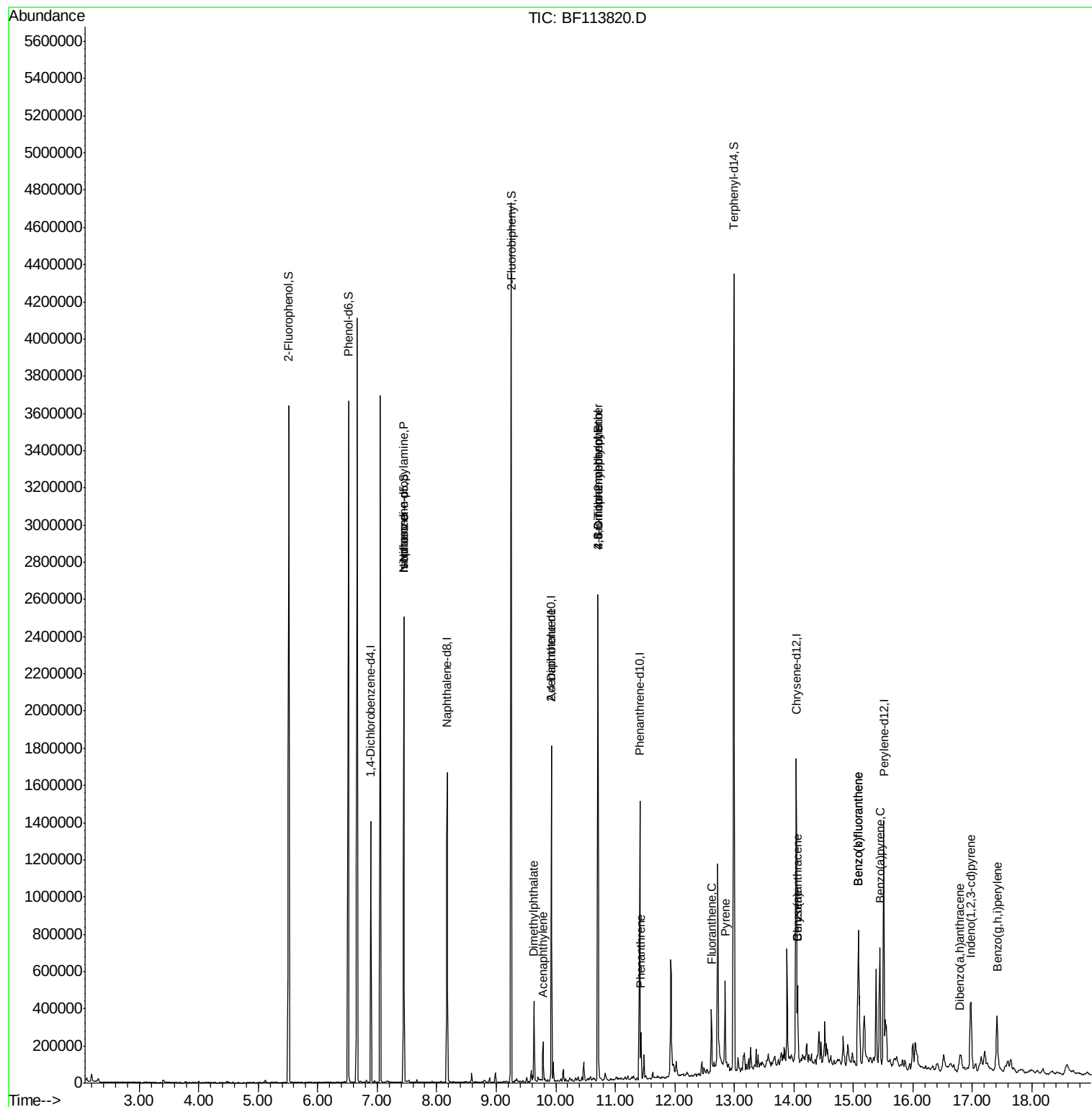
						Qvalue
9) Benzaldehyde	6.52	77	2139	Below Cal	#	3
19) n-Nitroso-di-n-propylamine	7.45	70	111404	11.693	ng	# 78
25) Isophorone	7.45	82	824309	34.803	ng	# 65
49) Acenaphthylene	9.79	152	80572	2.482	ng	97
50) Dimethylphthalate	9.63	163	160302	6.838	ng	100
57) 2,4-Dinitrotoluene	9.93	165	43882	6.836	ng	# 29
65) 4,6-Dinitro-2-methylphenol	10.71	198	560	7.127	ng	# 1
67) 4-Bromophenyl-phenylether	10.71	248	20459	3.005	ng	# 1
71) Phenanthrene	11.43	178	91931	3.113	ng	100
75) Fluoranthene	12.62	202	115856	3.702	ng	98
78) Pyrene	12.85	202	176080	5.342	ng	97
81) Benzo(a)anthracene	14.06	228	167927	6.142	ng	97
83) Chrysene	14.06	228	167927	6.188	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	259863	11.731	ng	95
88) Benzo(b)fluoranthene	15.08	252	570140	15.035	ng	98
89) Benzo(k)fluoranthene	15.08	252	570140	16.507	ng	99
90) Benzo(a)pyrene	15.44	252	308537	9.201	ng	97
91) Dibenzo(a,h)anthracene	16.79	278	60600	2.031	ng	94
92) Benzo(a,h,i)perylene	17.42	276	235505	7.766	ng	99

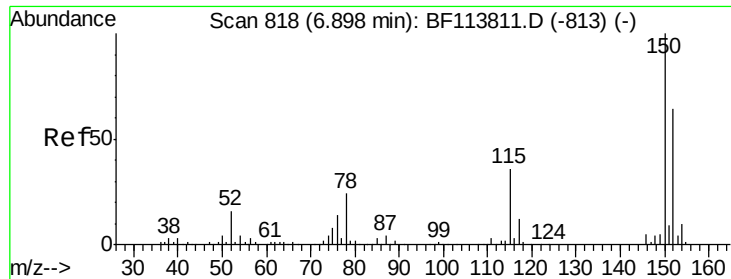
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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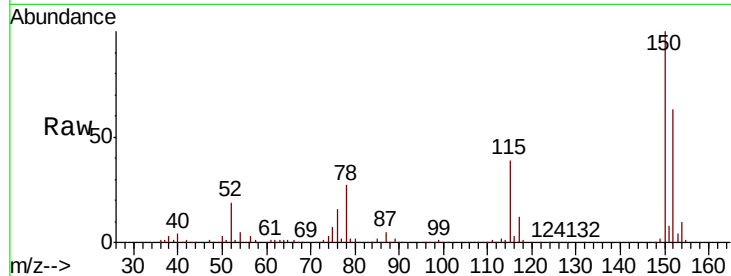


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	125.9	188.9
115	61.0	45.9	68.9

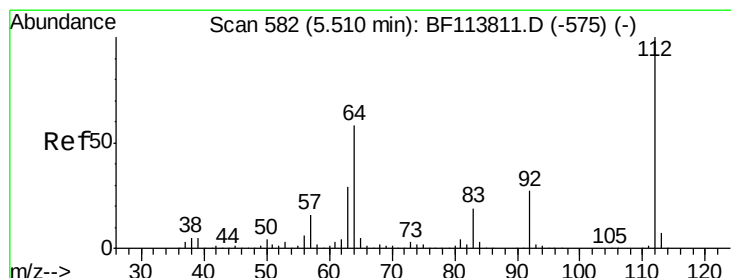
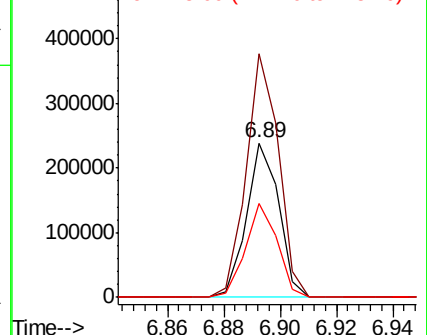
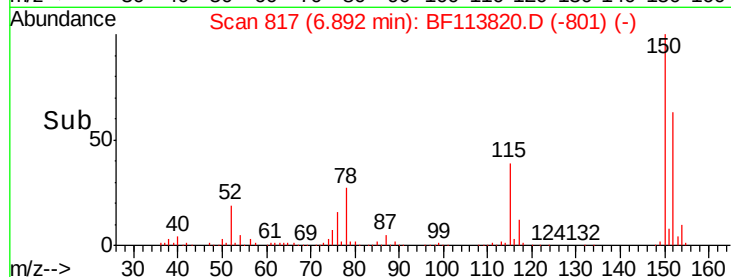


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

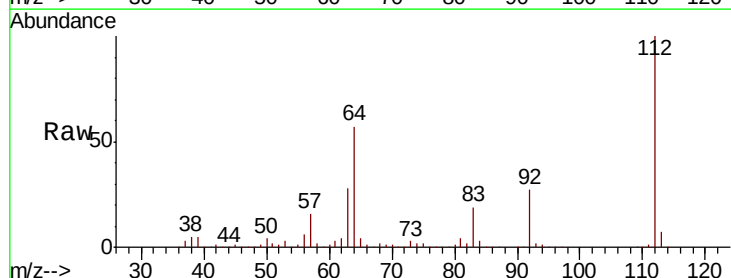
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 93.530 ng
RT: 5.52 min Scan# 583
Delta R.T. 0.01 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	46.6	69.8
63	28.5	23.1	34.7

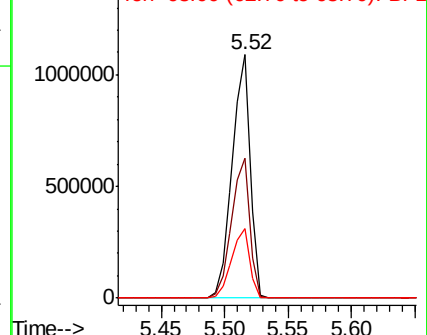
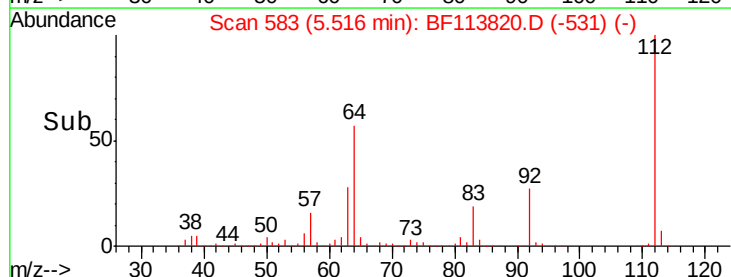


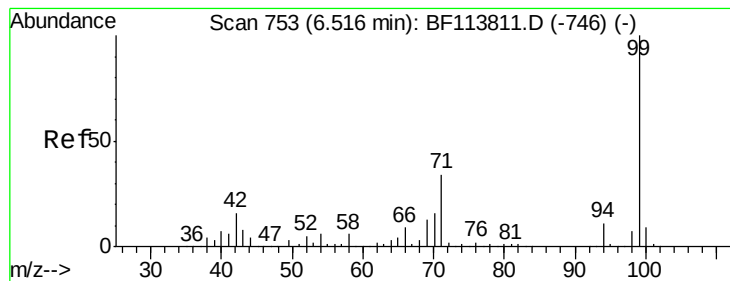
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 94.968 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

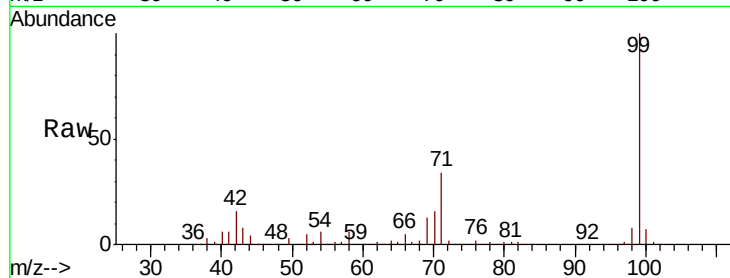
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1355490

Ion	Ratio	Lower	Upper
99	100		
42	15.6	12.5	18.7
71	34.0	26.9	40.3

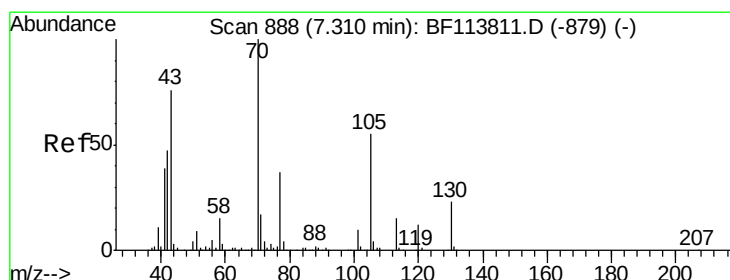
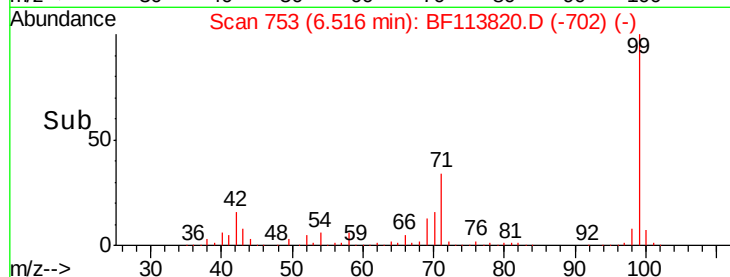
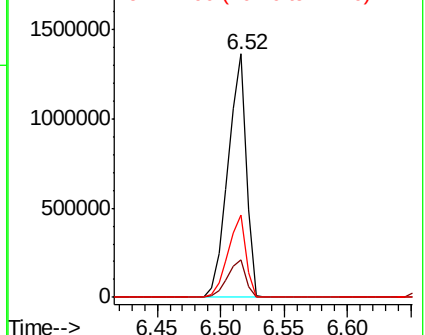


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.693 ng

RT: 7.45 min Scan# 912

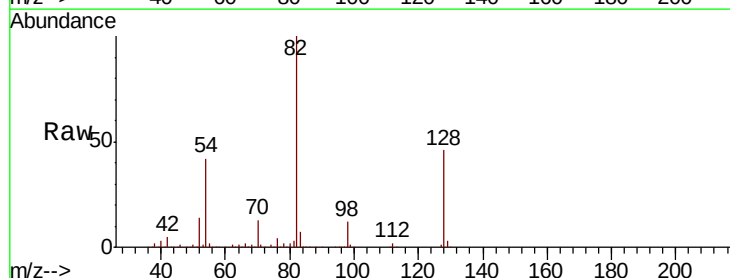
Delta R.T. 0.14 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Tgt Ion: 70 Resp: 111404

Ion	Ratio	Lower	Upper
70	100		
42	39.0	37.3	55.9
101	0.0	7.8	11.8#
130	2.4	18.2	27.2#



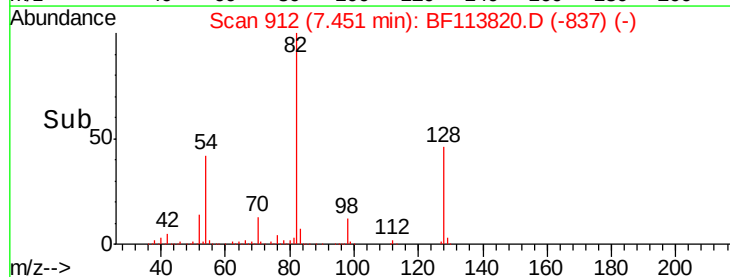
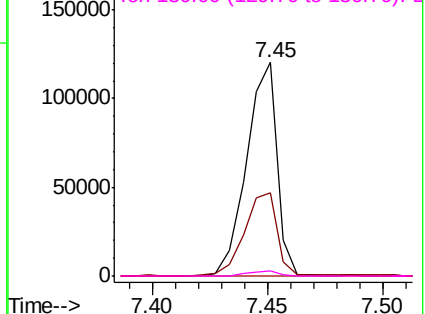
Abundance

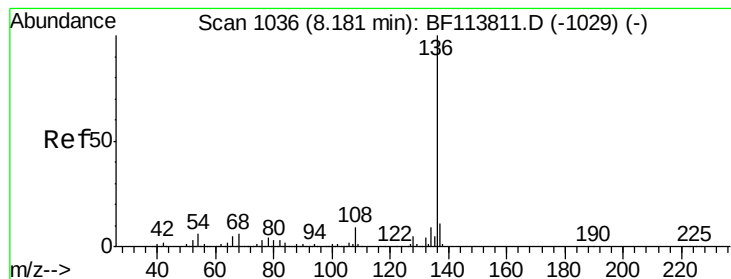
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 696608

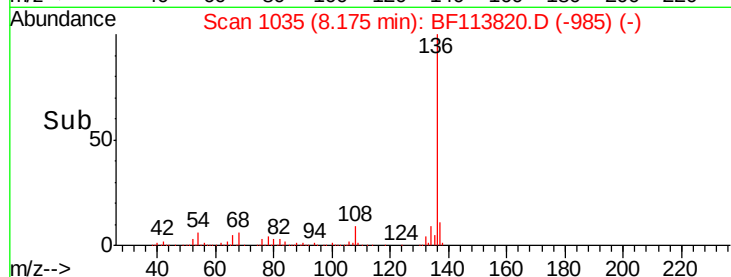
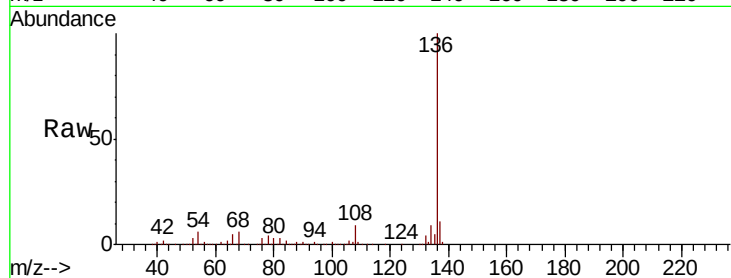
Ion Ratio Lower Upper

136 100

137 11.2 8.6 12.8

54 6.5 5.0 7.6

68 6.4 4.9 7.3

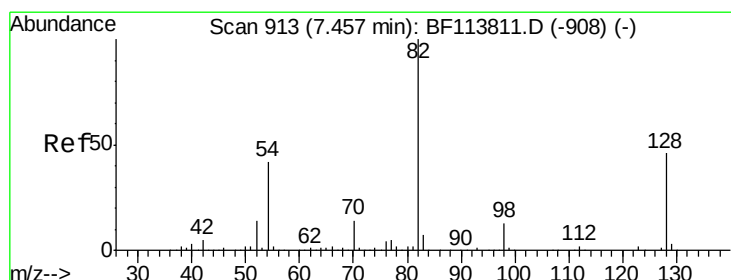
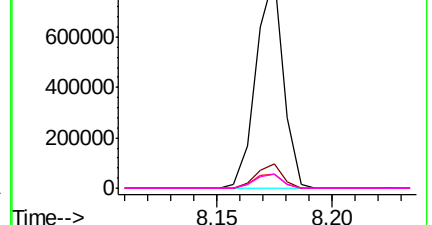


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 72.080 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

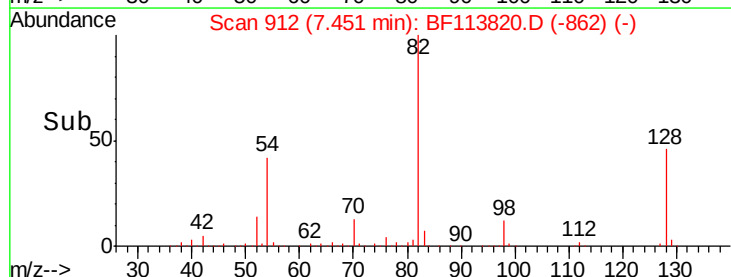
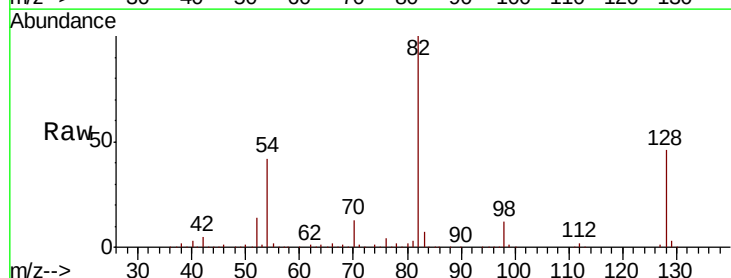
Tgt Ion: 82 Resp: 824545

Ion Ratio Lower Upper

82 100

128 46.4 36.8 55.2

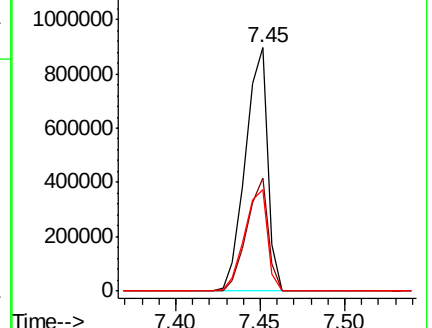
54 41.8 33.8 50.6

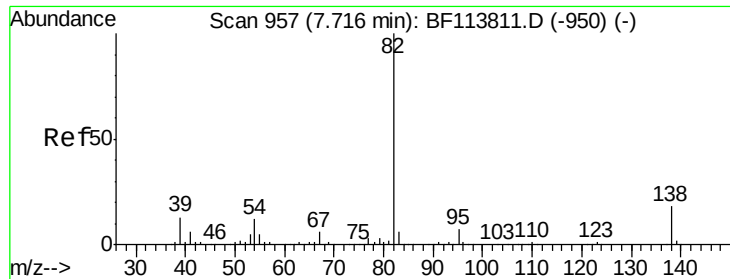


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.803 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.26 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampled :

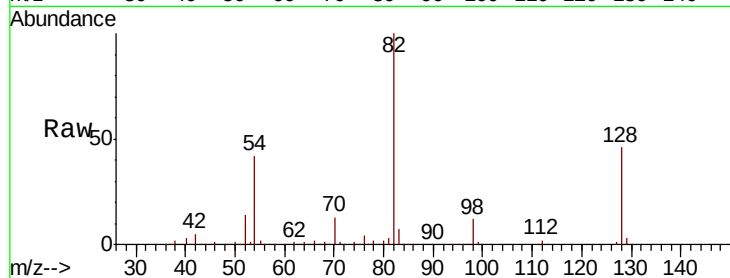
Tot Ion: 82 Resp: 824309

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

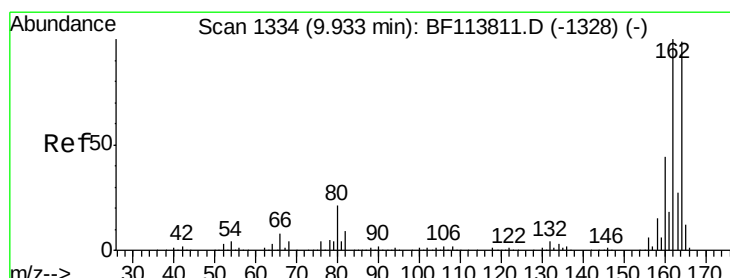
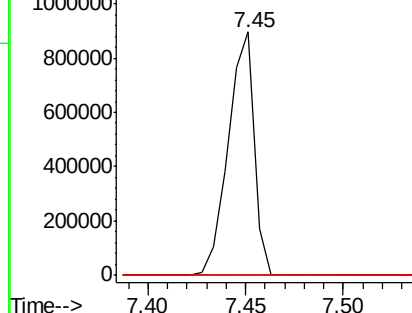
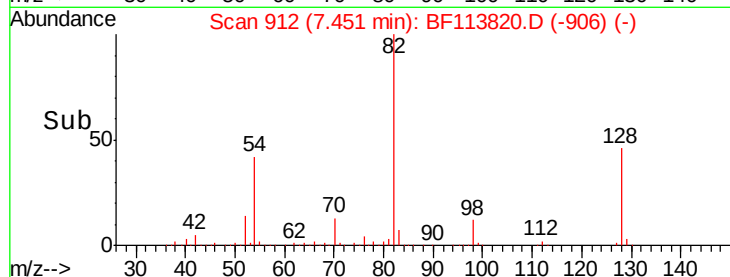
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

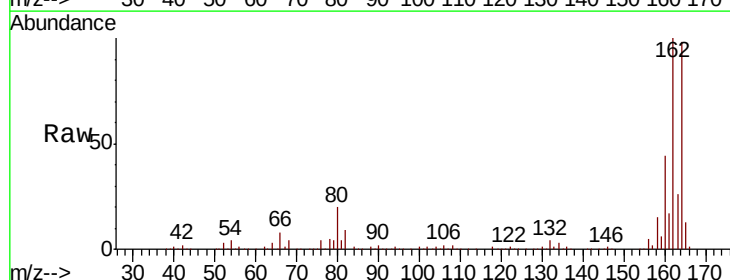
Tgt Ion:164 Resp: 335006

Ion Ratio Lower Upper

164 100

162 102.1 81.1 121.7

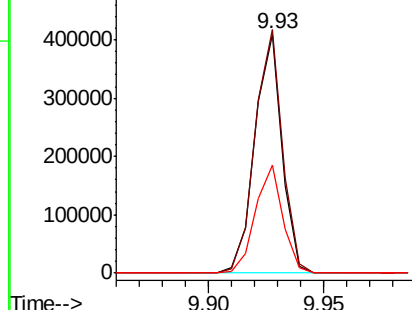
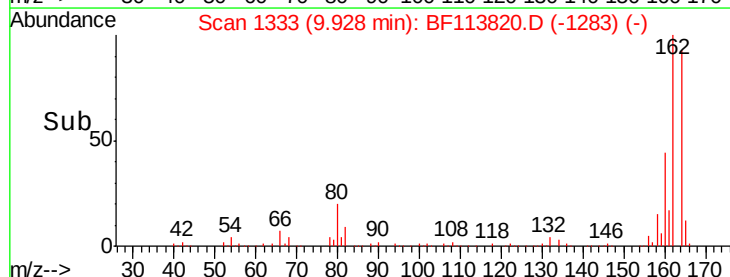
160 45.0 35.8 53.6

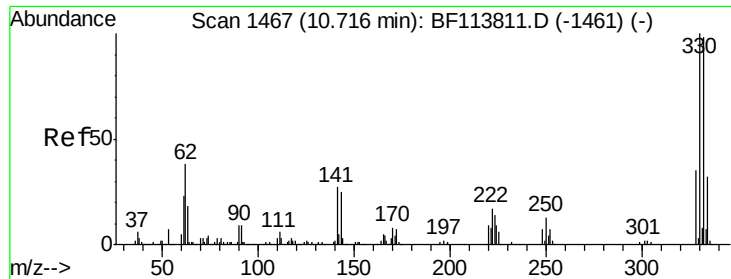


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 88.495 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF113820.D

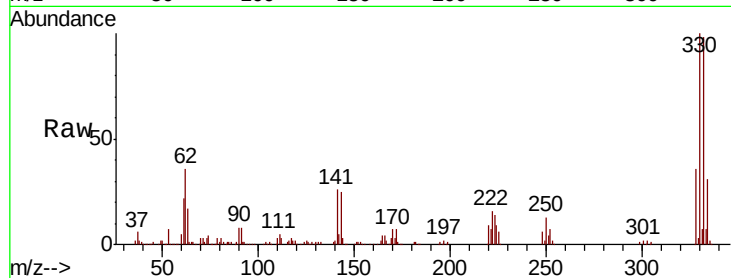
Acq: 18 Apr 2019 16:38

Instrument :

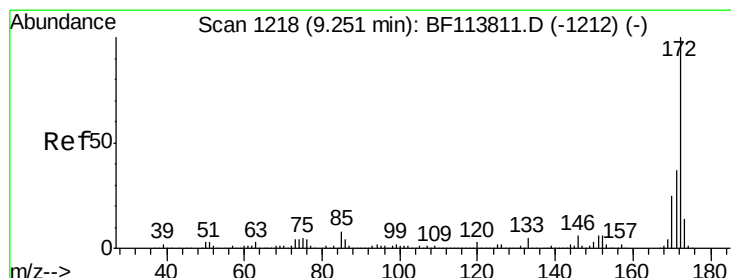
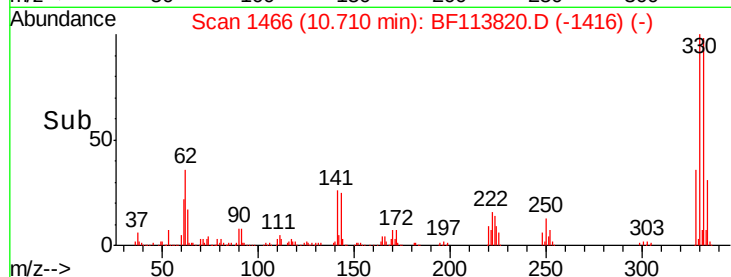
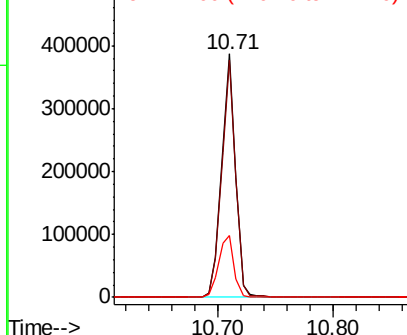
BNA_F

ClientSampled :

Tot Ion:	330	Resp:	327537
Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.5	116.3
141	27.8	22.2	33.2



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 69.112 ng

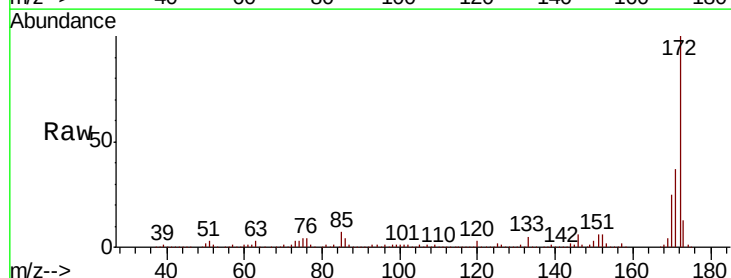
RT: 9.25 min Scan# 1218

Delta R.T. -0.00 min

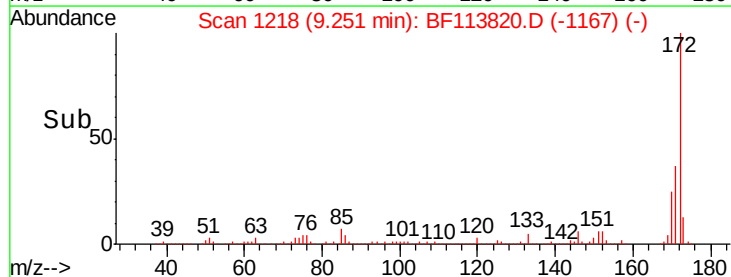
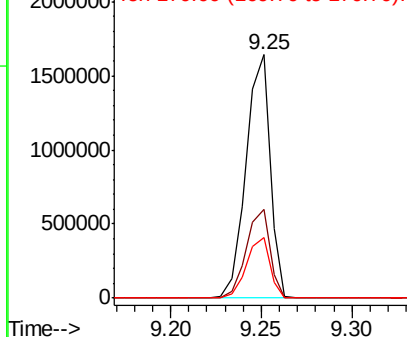
Lab File: BF113820.D

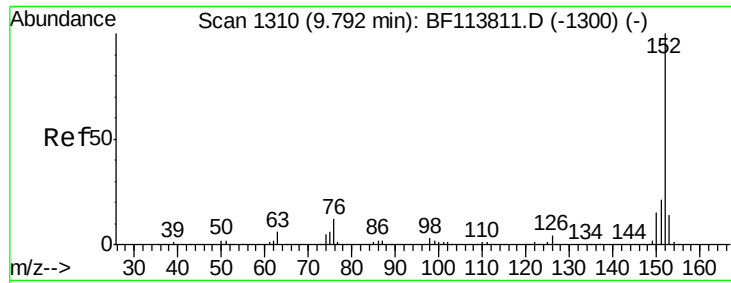
Acq: 18 Apr 2019 16:38

Tgt Ion:	172	Resp:	1518191
Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.4	44.0
170	24.8	19.9	29.9



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.482 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

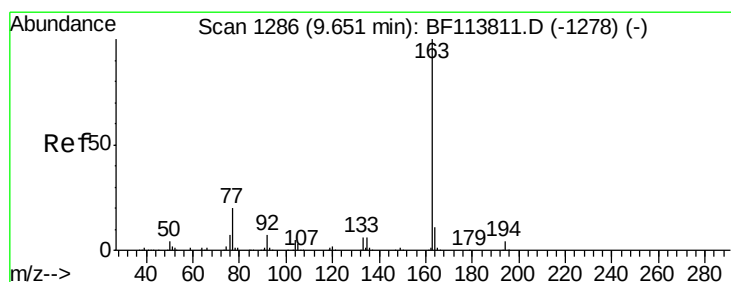
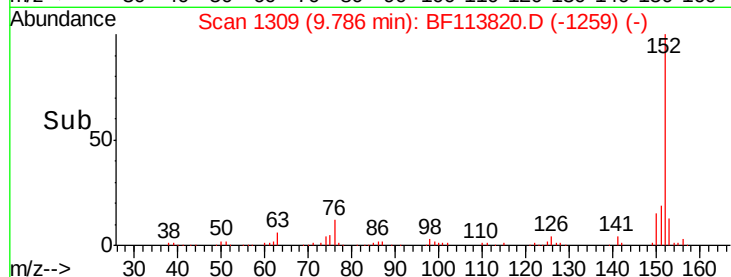
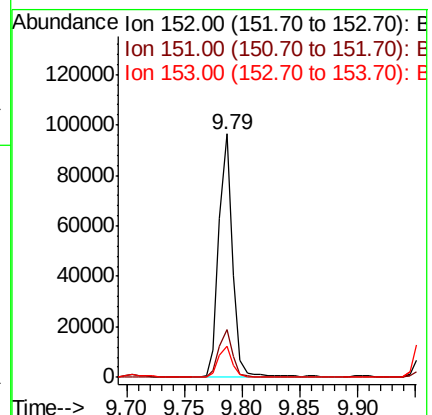
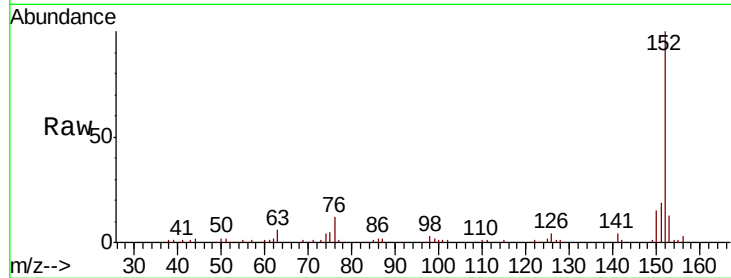
Tot Ion:152 Resp: 80572

Ion Ratio Lower Upper

152 100

151 19.4 17.0 25.4

153 13.0 11.0 16.6



#50

Dimethylphthalate

Concen: 6.838 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

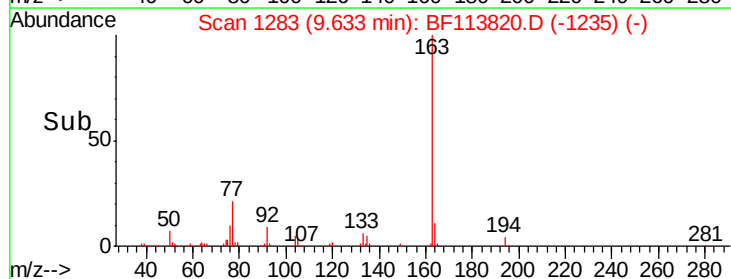
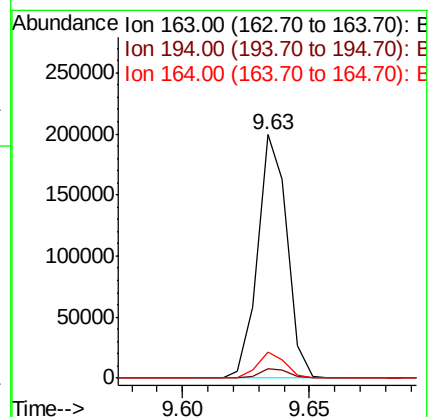
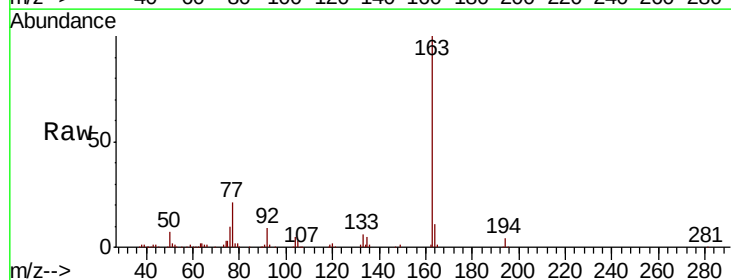
Tgt Ion:163 Resp: 160302

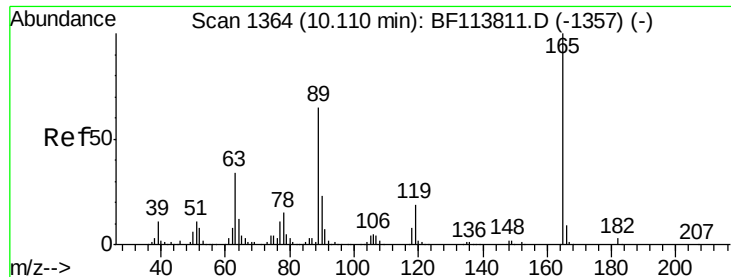
Ion Ratio Lower Upper

163 100

194 3.9 3.4 5.2

164 10.7 8.5 12.7





#57

2,4-Dinitrotoluene

Concen: 6.836 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.18 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 43882

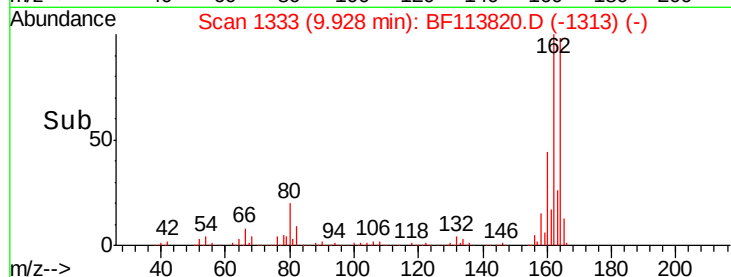
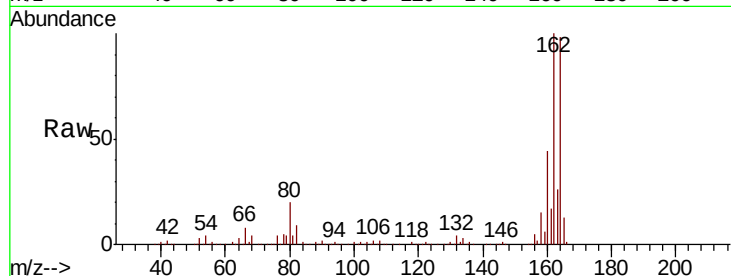
Ion Ratio Lower Upper

165 100

63 1.2 27.4 41.0#

89 1.4 51.8 77.6#

182 0.0 2.2 3.2#

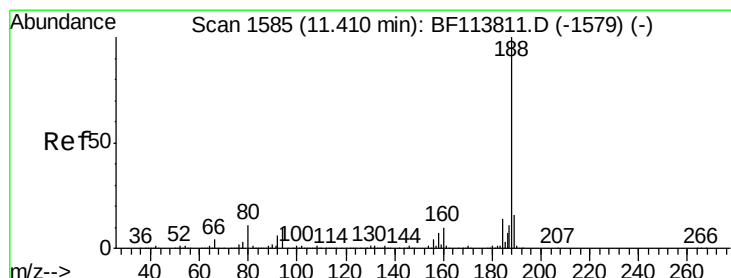
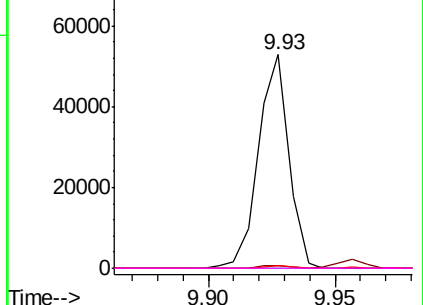


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

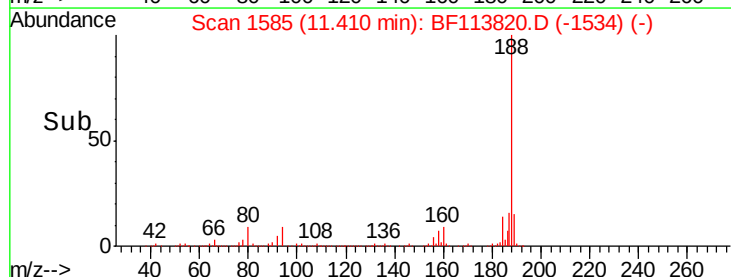
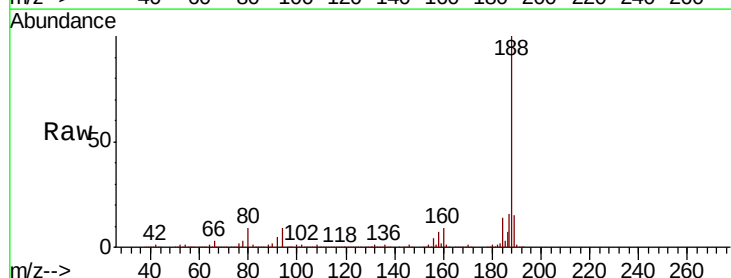
Tgt Ion:188 Resp: 579783

Ion Ratio Lower Upper

188 100

94 8.5 8.2 12.4

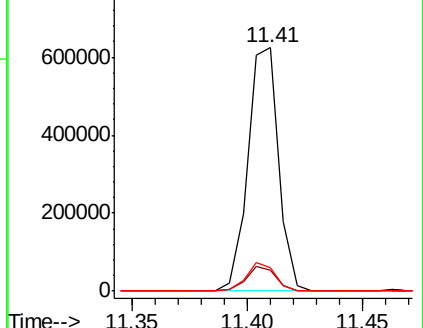
80 9.4 9.0 13.6

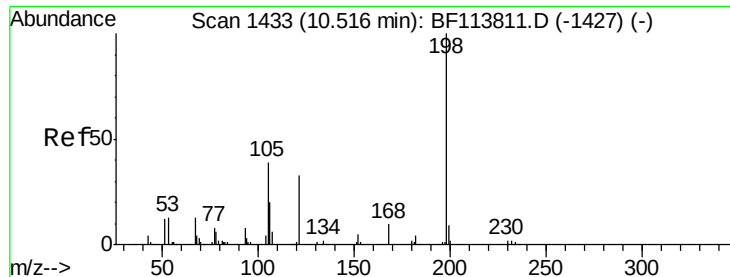


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

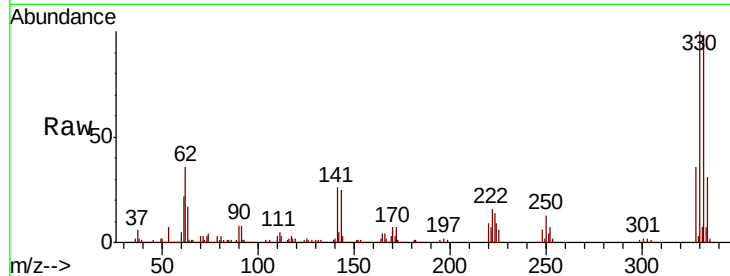




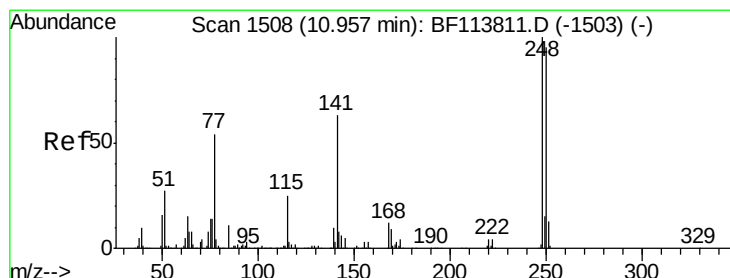
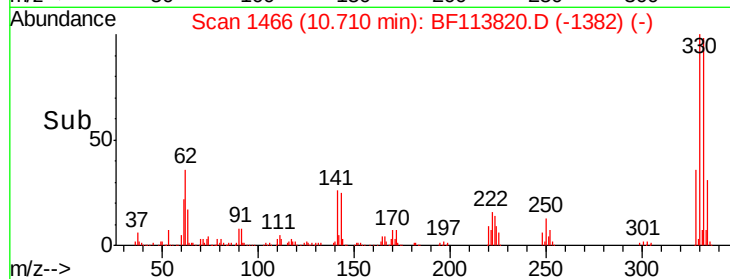
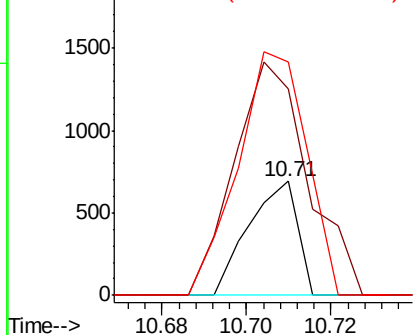
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.127 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.19 min
 Lab File: BF113820.D
 Acq: 18 Apr 2019 16:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
198	100		
51	180.4	11.1	51.1#
105	204.6	20.7	60.7#

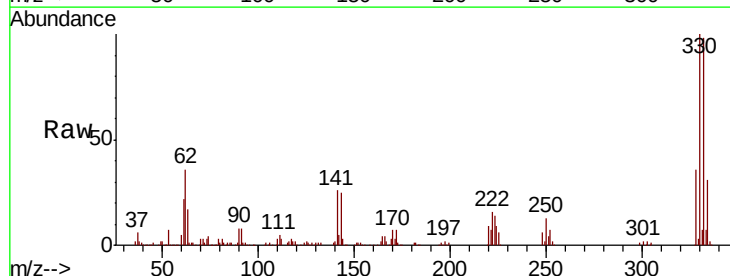


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

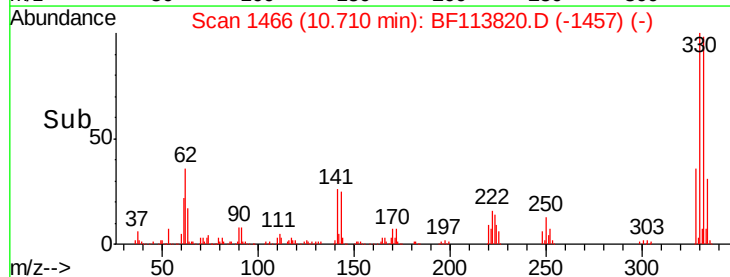
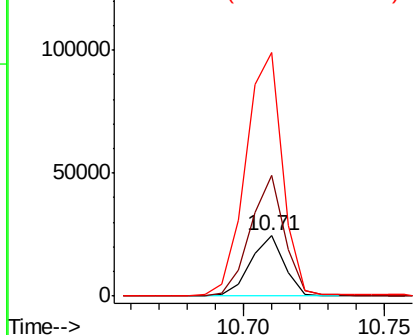


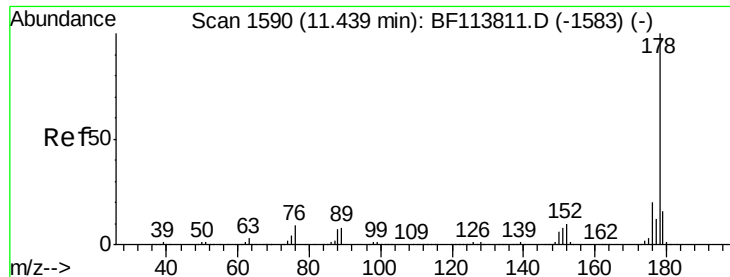
#67
 4-Bromophenyl-phenylether
 Concen: 3.005 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.25 min
 Lab File: BF113820.D
 Acq: 18 Apr 2019 16:38

Tgt Ion	Ratio	Lower	Upper
248	100		
250	200.7	75.8	113.6#
141	405.6	50.2	75.4#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 3.113 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

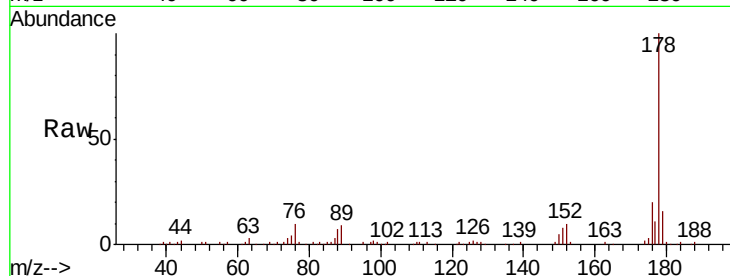
Tot Ion:178 Resp: 91931

Ion Ratio Lower Upper

178 100

176 19.9 16.1 24.1

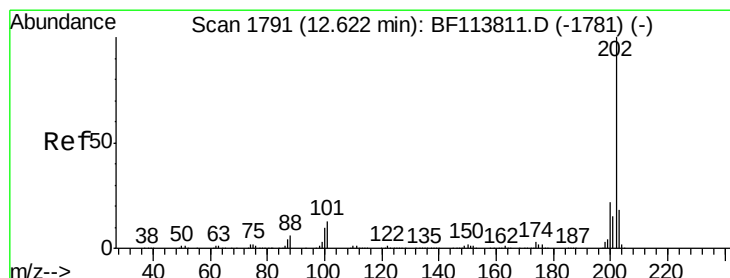
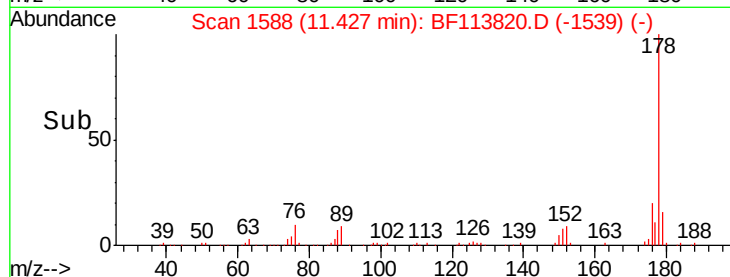
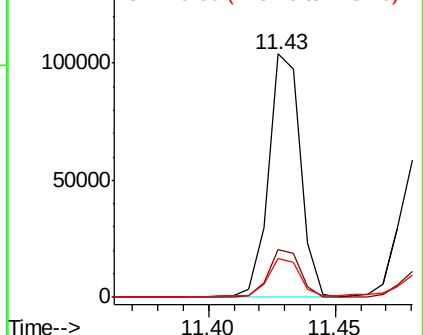
179 15.8 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 3.702 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

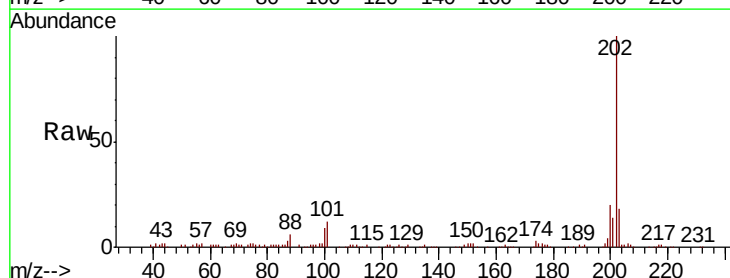
Tgt Ion:202 Resp: 115856

Ion Ratio Lower Upper

202 100

101 11.8 0.0 32.9

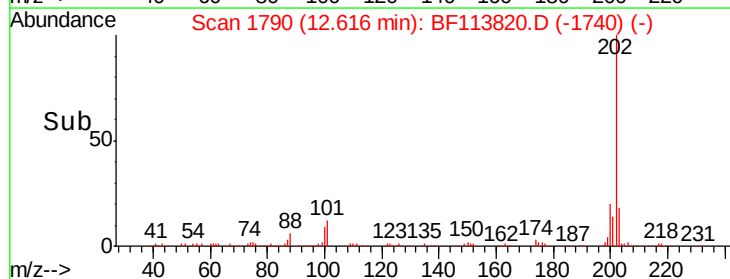
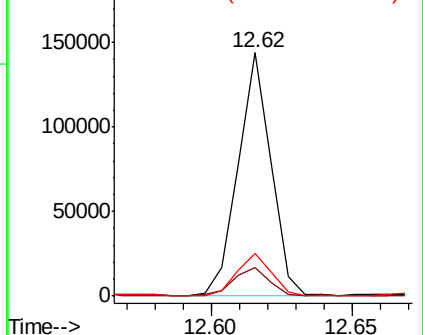
203 17.8 0.0 38.2

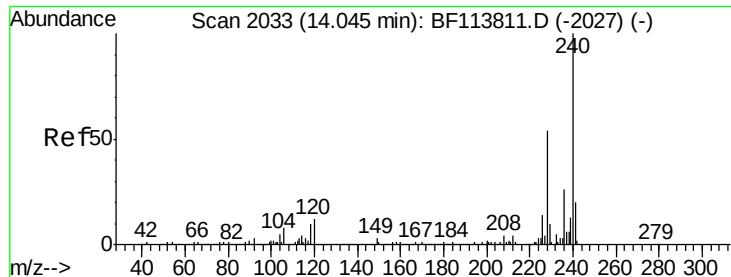


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

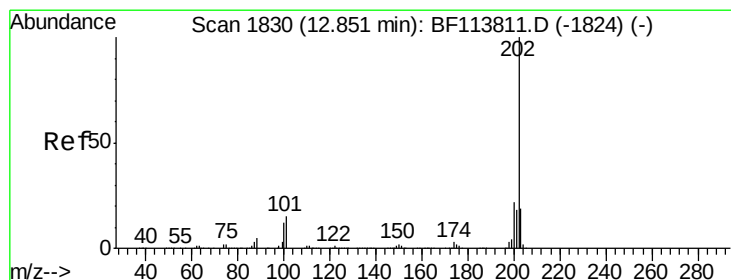
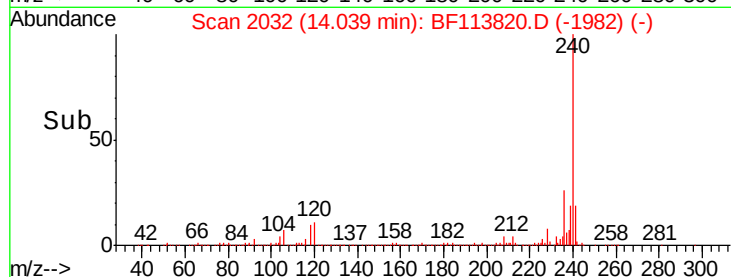
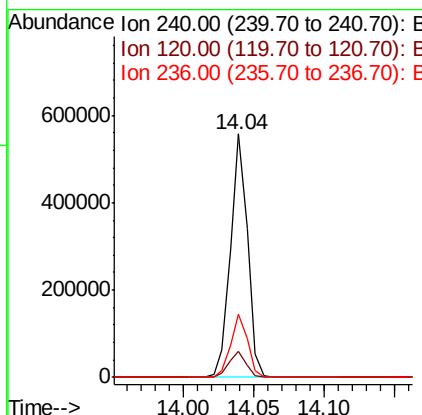
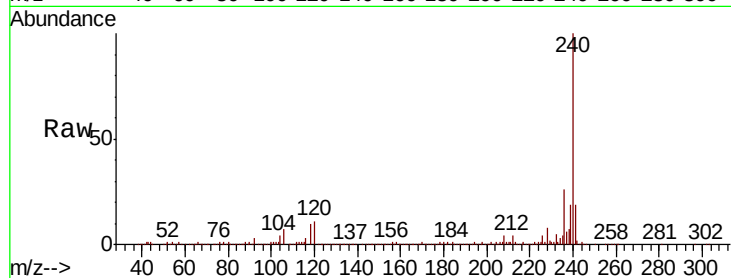




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.01 min
 Lab File: BF113820.D
 Acq: 18 Apr 2019 16:38

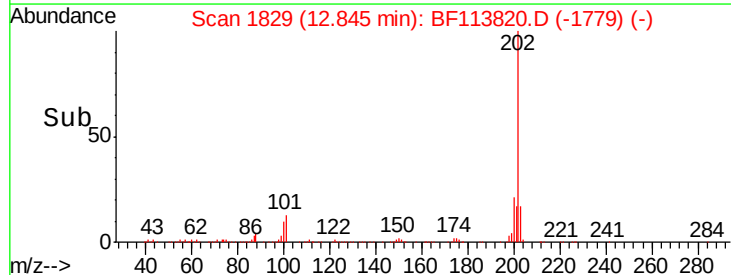
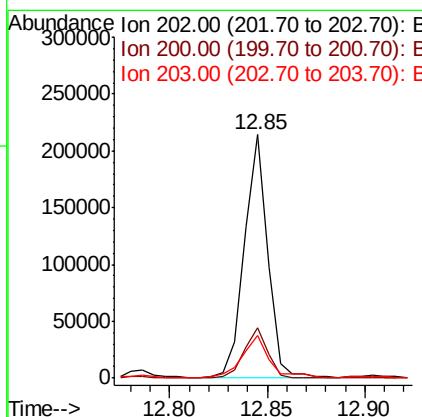
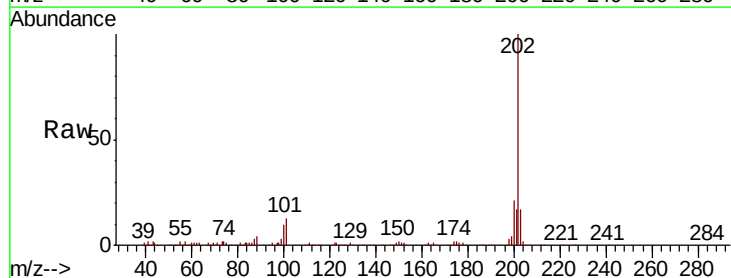
Instrument :
 BNA_F
 ClientSampleId :

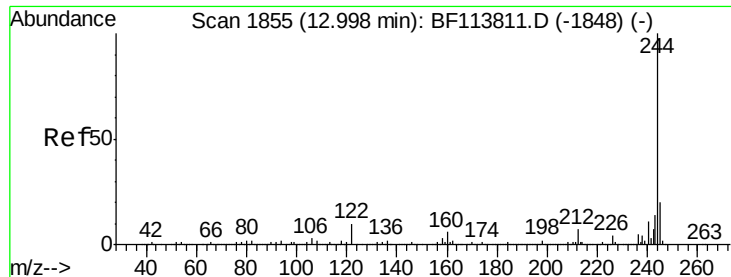
Tot Ion:240 Resp: 467698
 Ion Ratio Lower Upper
 240 100
 120 10.6 9.3 13.9
 236 25.9 21.2 31.8



#78
 Pyrene
 Concen: 5.342 ng
 RT: 12.85 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF113820.D
 Acq: 18 Apr 2019 16:38

Tgt Ion:202 Resp: 176080
 Ion Ratio Lower Upper
 202 100
 200 20.6 17.7 26.5
 203 17.4 15.0 22.6





#79

Terphenyl-d14

Concen: 66.661 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

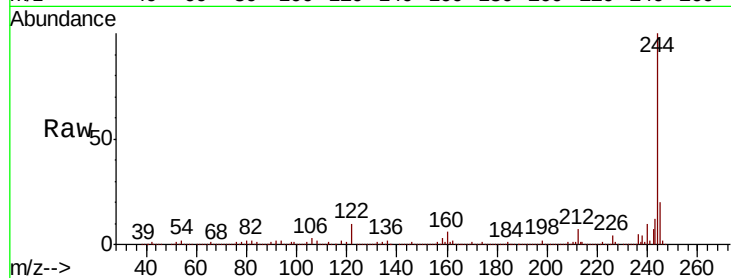
Tot Ion:244 Resp: 1486777

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

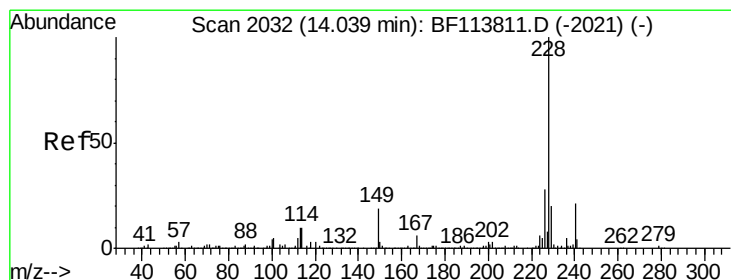
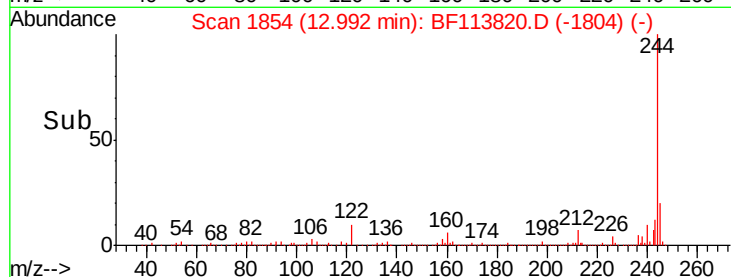
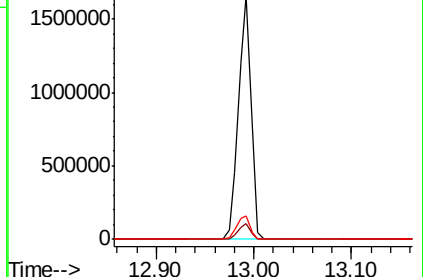
122 9.8 7.6 11.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 6.142 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.02 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

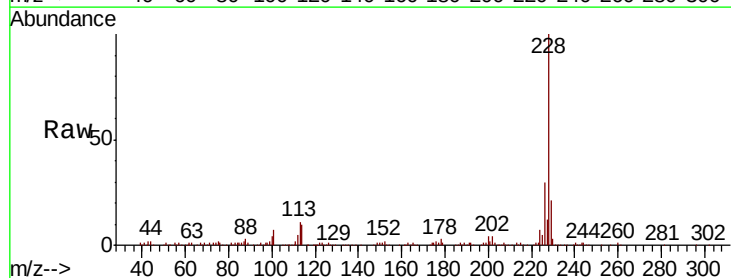
Tgt Ion:228 Resp: 167927

Ion Ratio Lower Upper

228 100

226 30.0 22.2 33.2

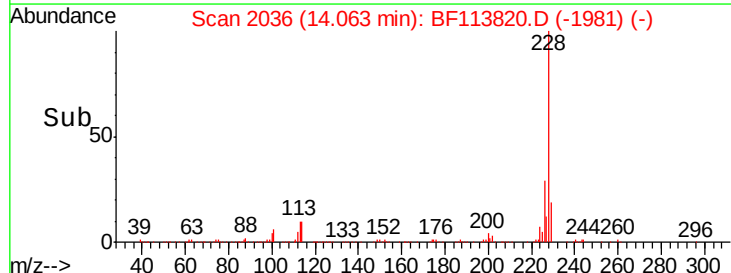
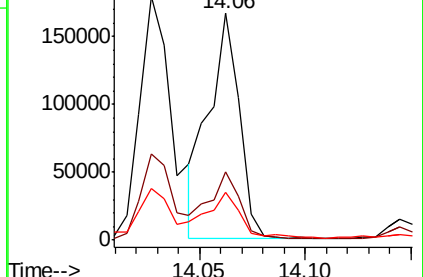
229 21.0 16.0 24.0

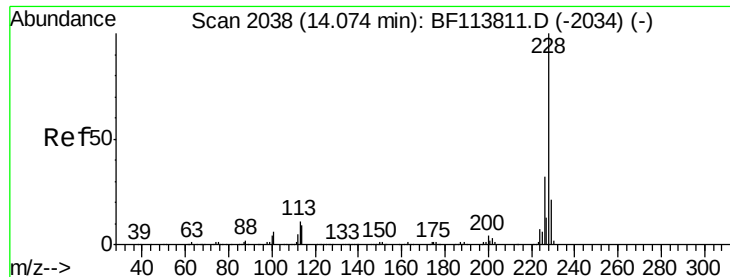


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

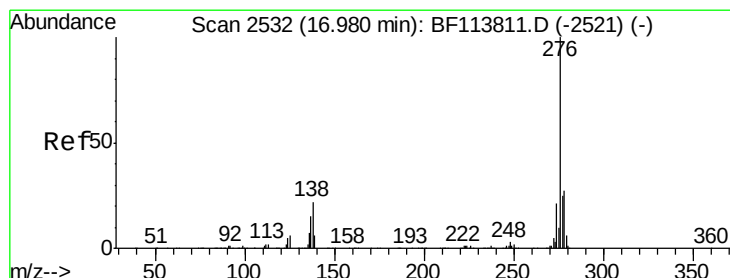
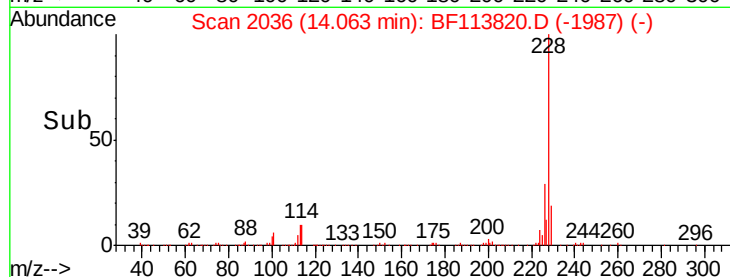
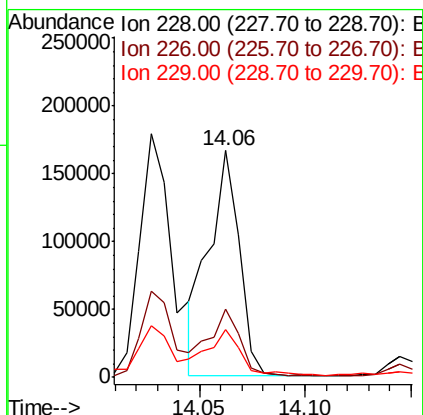
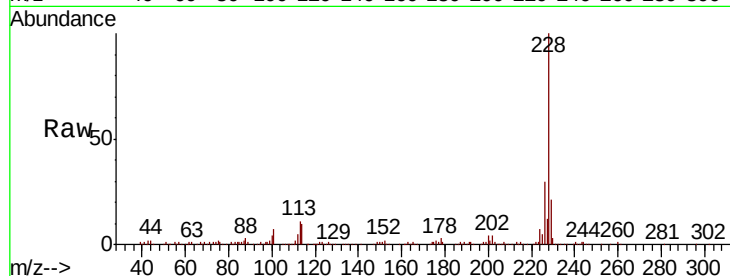




#83
Chrysene
Concen: 6.188 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

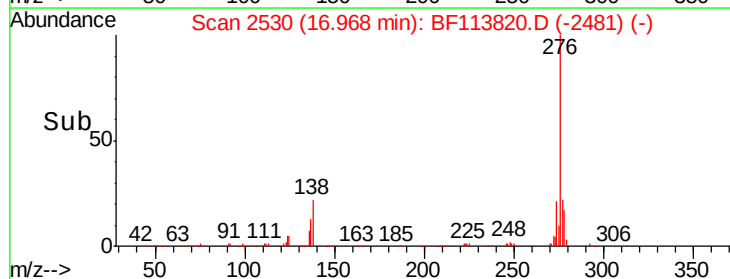
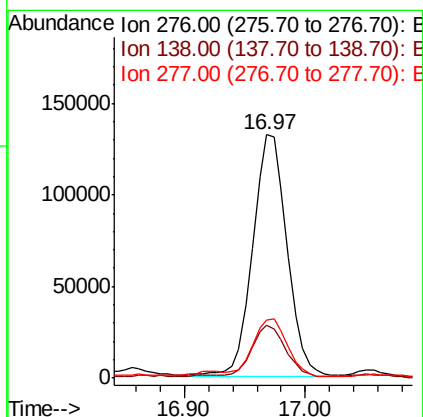
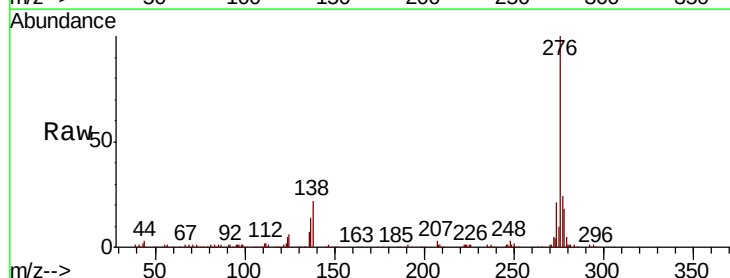
Instrument :
BNA_F
ClientSampled :

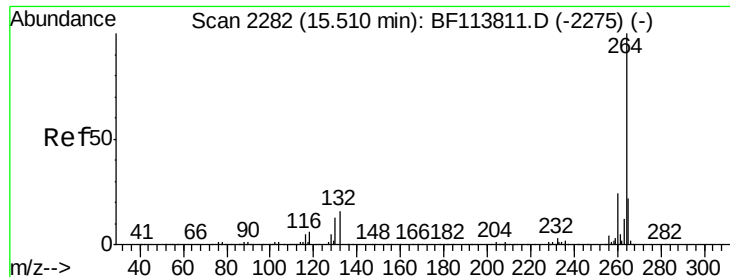
Tot Ion:228 Resp: 167927
Ion Ratio Lower Upper
228 100
226 30.0 25.2 37.8
229 21.0 16.7 25.1



#86
Indeno(1,2,3-cd)pyrene
Concen: 11.731 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

Tgt Ion:276 Resp: 259863
Ion Ratio Lower Upper
276 100
138 21.0 19.6 29.4
277 24.2 20.2 30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.51 min Scan# 2282

Delta R.T. -0.00 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

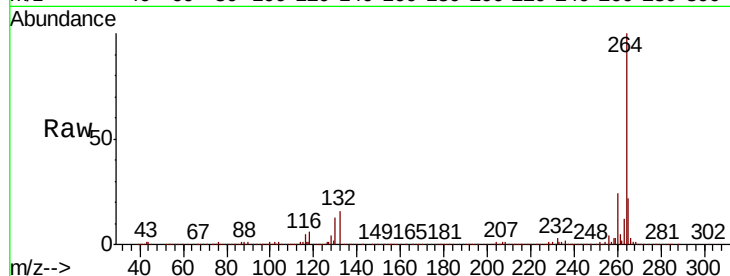
Tot Ion:264 Resp: 608311

Ion Ratio Lower Upper

264 100

260 24.4 18.9 28.3

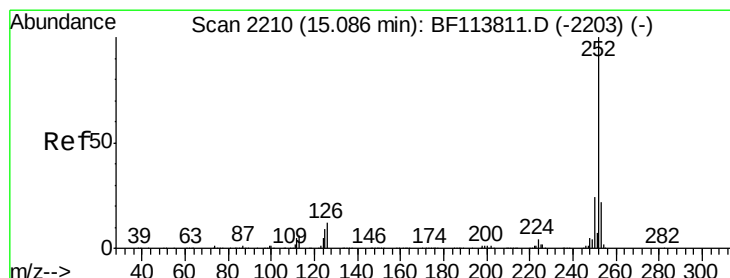
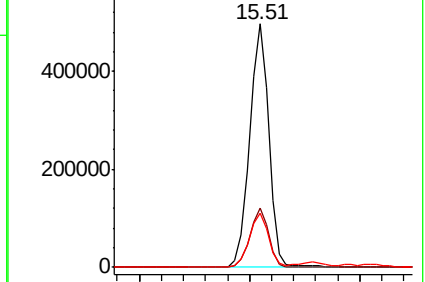
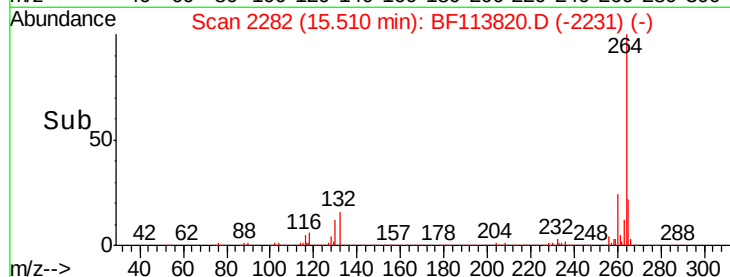
265 22.2 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 15.035 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

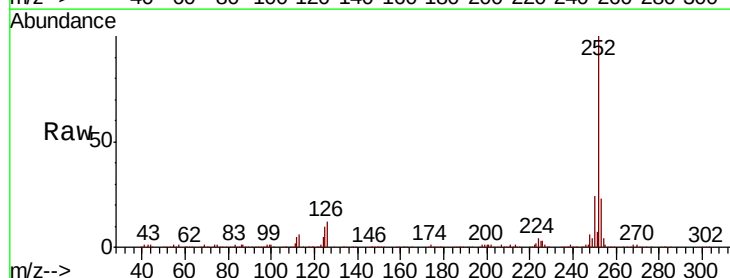
Tgt Ion:252 Resp: 570140

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.6

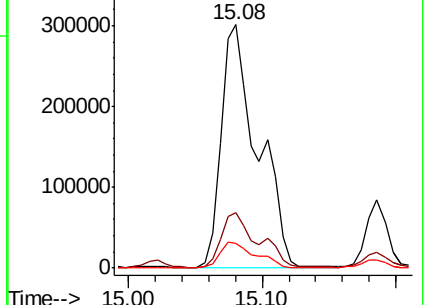
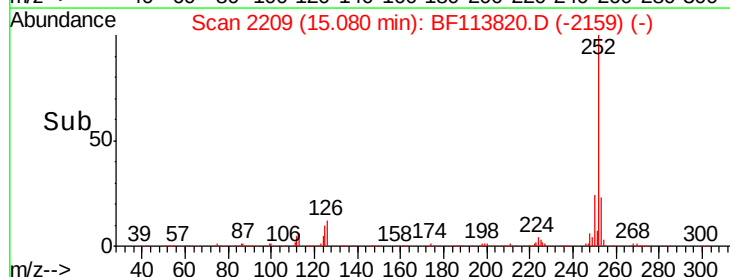
125 10.3 7.0 10.6

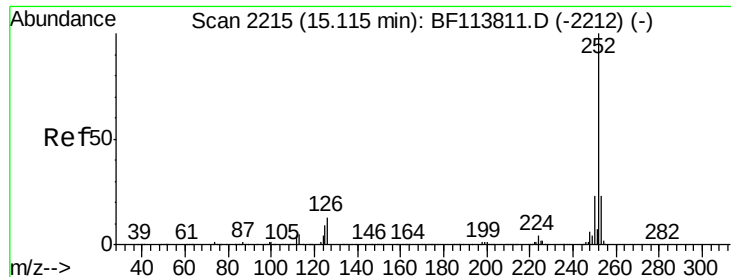


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

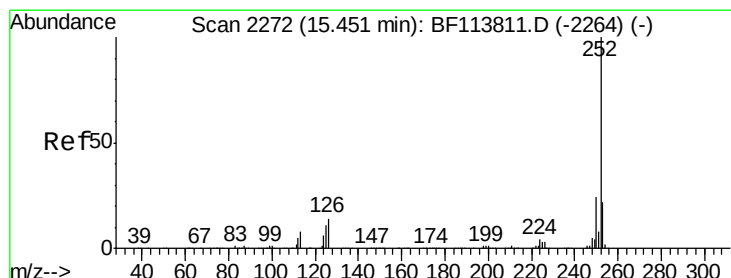
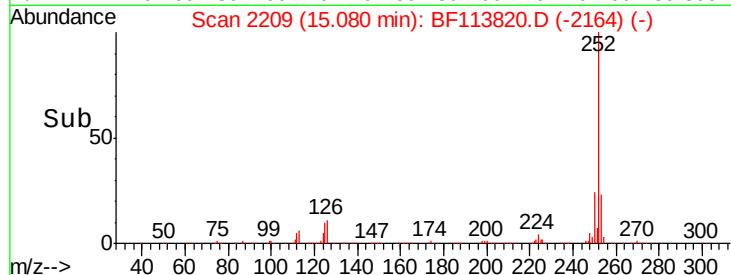
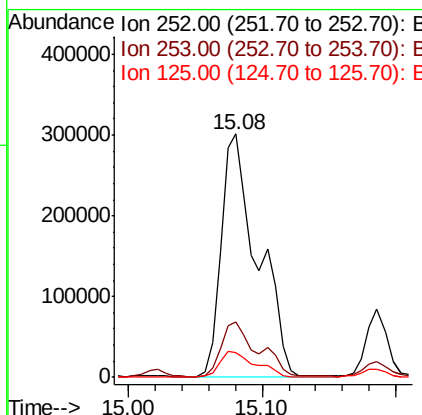
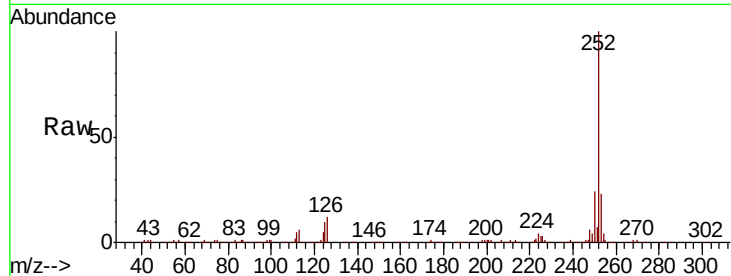




#89
Benzo(k)fluoranthene
Concen: 16.507 ng
RT: 15.08 min Scan# 2209
Delta R.T. -0.04 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

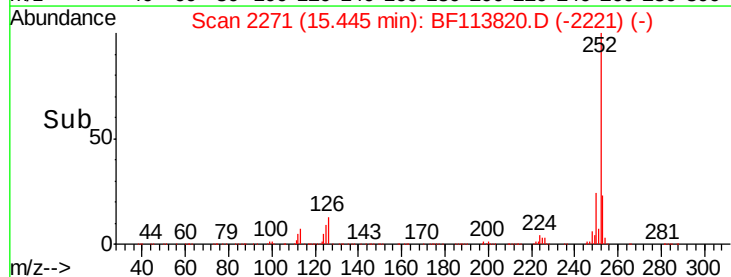
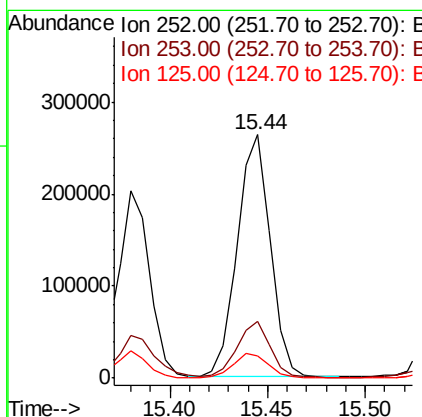
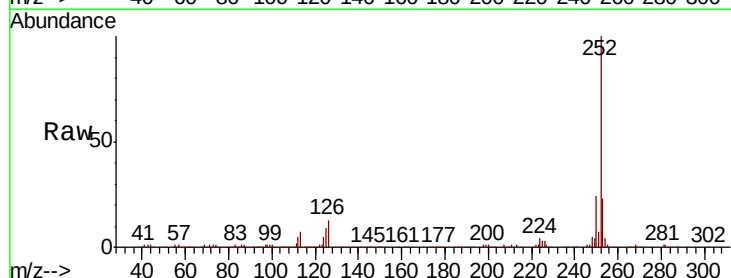
Instrument :
BNA_F
ClientSampleId :

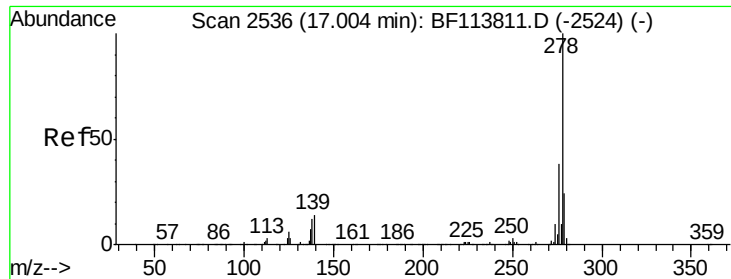
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	10.3	7.4	11.2



#90
Benzo(a)pyrene
Concen: 9.201 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF113820.D
Acq: 18 Apr 2019 16:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	9.4	8.5	12.7





#91

Dibenzo(a,h)anthracene

Concen: 2.031 ng

RT: 16.79 min Scan# 2499

Delta R.T. -0.22 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

Instrument :

BNA_F

ClientSampleId :

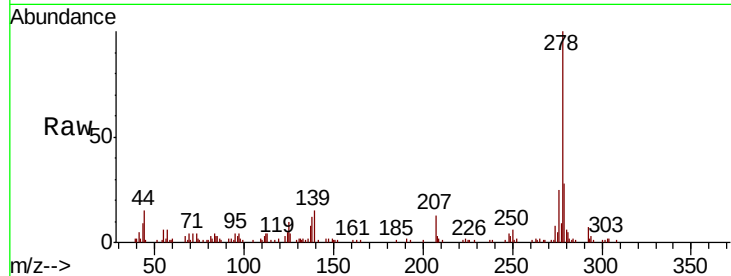
Tot Ion:278 Resp: 60600

Ion Ratio Lower Upper

278 100

139 15.4 11.6 17.4

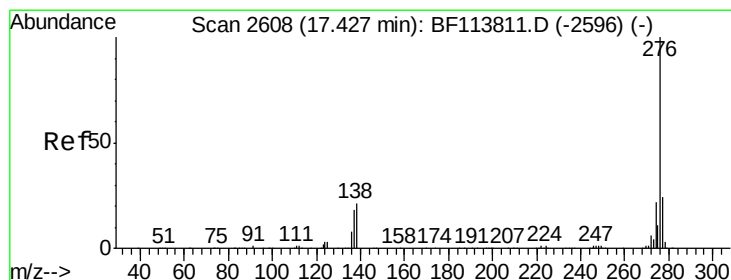
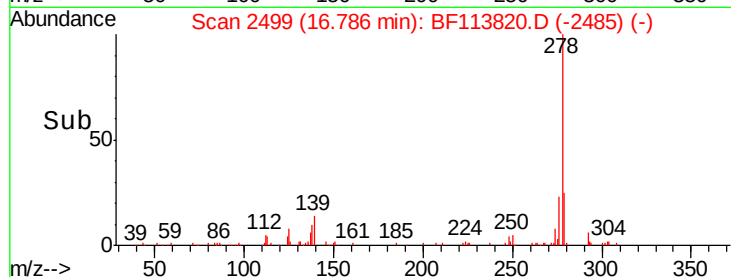
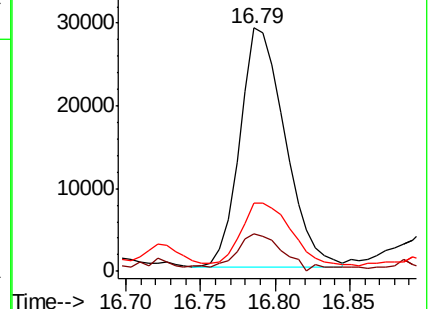
279 27.9 19.0 28.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 7.766 ng

RT: 17.42 min Scan# 2606

Delta R.T. -0.01 min

Lab File: BF113820.D

Acq: 18 Apr 2019 16:38

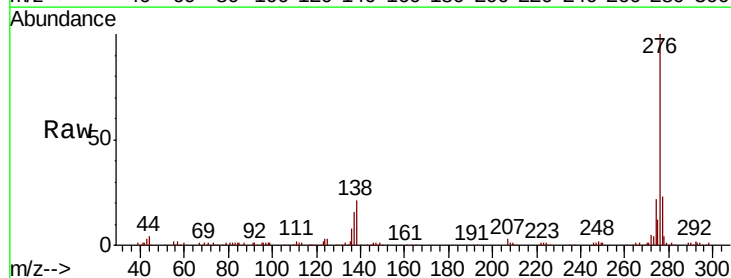
Tgt Ion:276 Resp: 235505

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 21.1 16.6 25.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

