

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
 Data File : BF097291.D
 Acq On : 2 Aug 2017 23:30
 Operator : SJ/JU
 Sample : I4540-13
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 03 00:48:28 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

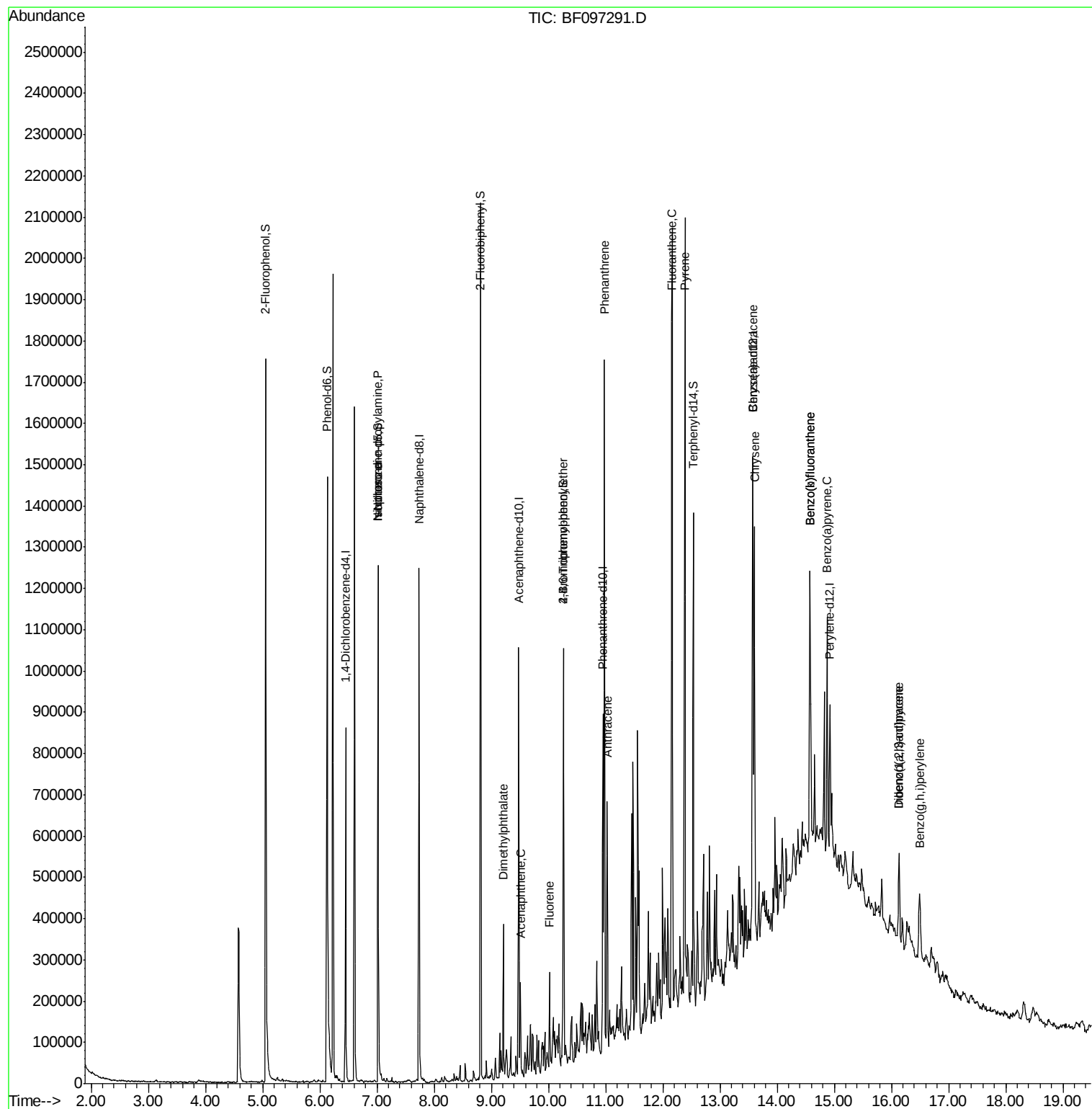
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	127171	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	514465	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	208508	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	289775	20.00	ng	-0.05
75) Chrysene-d12	13.58	240	206593	20.00	ng	-0.05
86) Perylene-d12	14.92	264	151916	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	555160	65.81	ng	-0.05
7) Phenol-d6	6.13	99	710013	73.72	ng	-0.04
23) Nitrobenzene-d5	7.02	82	388782	44.33	ng	-0.05
41) 2,4,6-Tribromophenol	10.26	330	98802	59.97	ng	-0.06
44) 2-Fluorobiphenyl	8.81	172	637593	51.90	ng	-0.06
78) Terphenyl-d14	12.53	244	351220	34.66	ng	-0.05
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.02	70	51939	8.19	ng	# 87
25) Isophorone	7.02	82	380942	22.18	ng	# 67
49) Dimethylphthalate	9.21	163	129143	8.16	ng	99
51) Acenaphthene	9.51	154	41443	3.50	ng	96
57) Fluorene	10.02	166	52800	4.45	ng	99
66) 4-Bromophenyl-phenylether	10.26	248	6309	2.18	ng	# 1
70) Phenanthrene	10.97	178	646144	41.62	ng	99
71) Anthracene	11.03	178	211000	13.27	ng	99
74) Fluoranthene	12.16	202	788293	51.83	ng	98
77) Pyrene	12.39	202	812528	48.04	ng	99
80) Benzo(a)anthracene	13.57	228	422185	31.58	ng	98
82) Chrysene	13.60	228	371065	28.43	ng	97
85) Indeno(1,2,3-cd)pyrene	16.13	276	116770	10.43	ng	99
87) Benzo(b)fluoranthene	14.57	252	445842	48.82	ng	# 96
88) Benzo(k)fluoranthene	14.57	252	445842	51.23	ng	99
89) Benzo(a)pyrene	14.87	252	238423	28.53	ng	# 95
90) Dibenzo(a,h)anthracene	16.13	278	34543	5.04	ng	# 86
91) Benzo(g,h,i)perylene	16.49	276	123875	17.23	ng	93

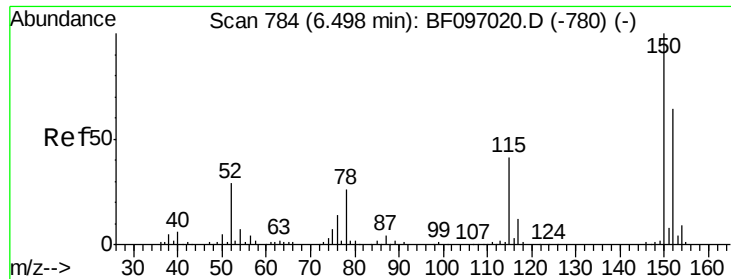
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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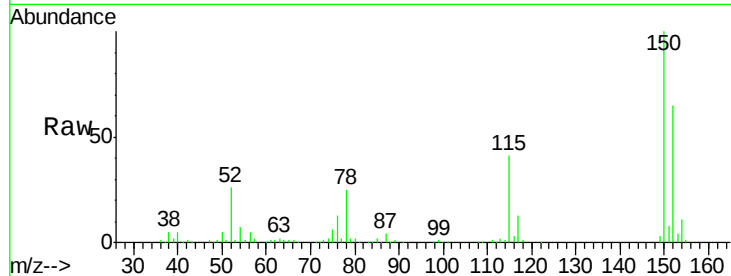


#1

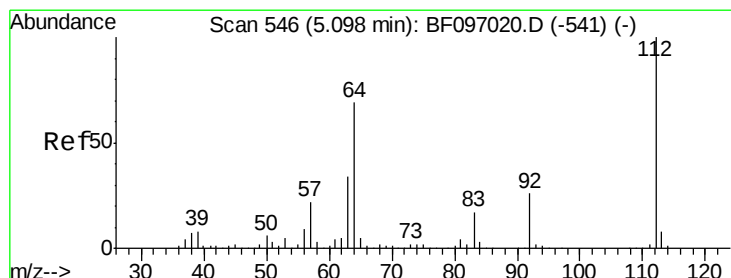
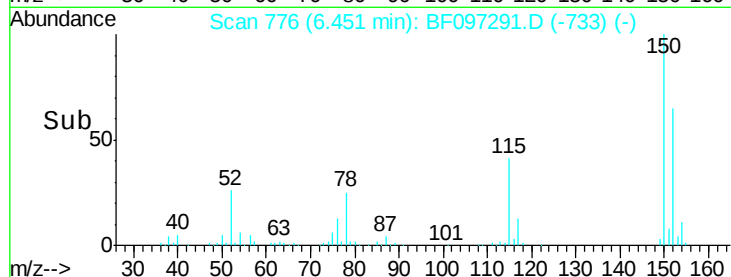
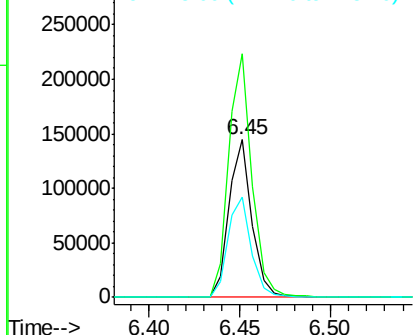
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.45 min Scan# 776
Delta R.T. -0.05 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 127171
Ion Ratio Lower Upper
152 100
150 154.6 126.2 189.2
115 63.5 52.2 78.2



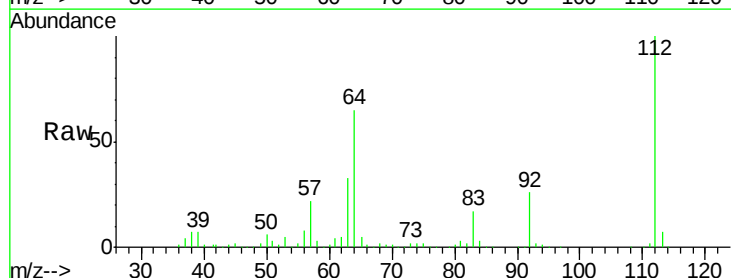
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



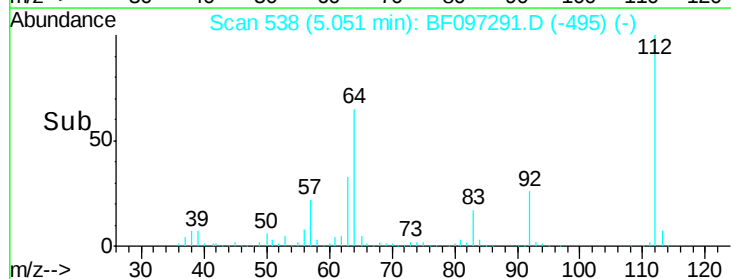
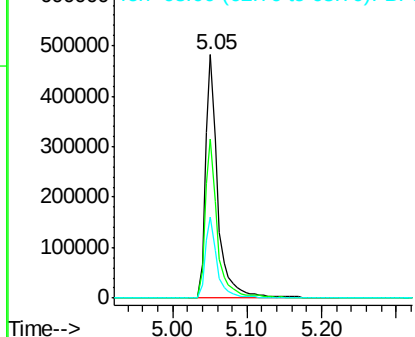
#5

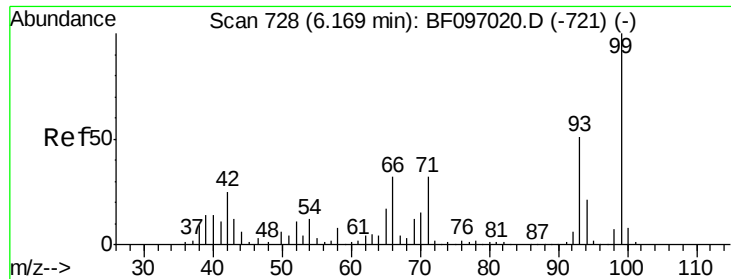
2-Fluorophenol
Concen: 65.81 ng
RT: 5.05 min Scan# 538
Delta R.T. -0.05 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

Tgt Ion:112 Resp: 555160
Ion Ratio Lower Upper
112 100
64 65.3 46.0 69.0
63 33.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 73.72 ng

RT: 6.13 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

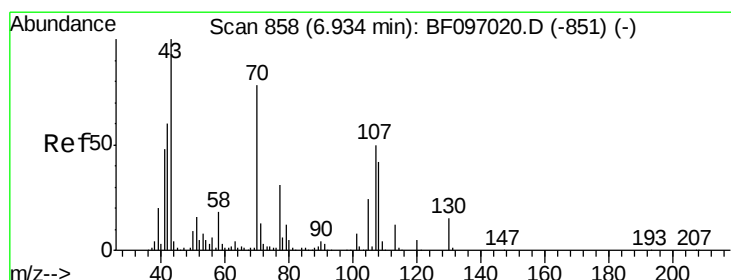
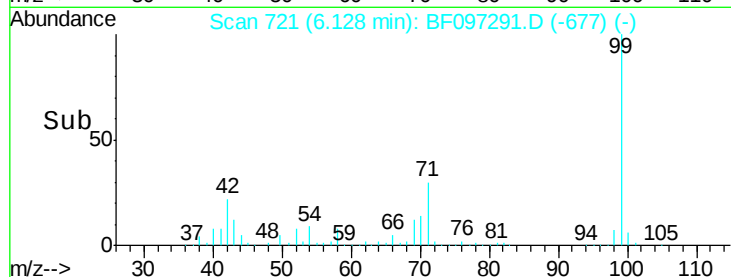
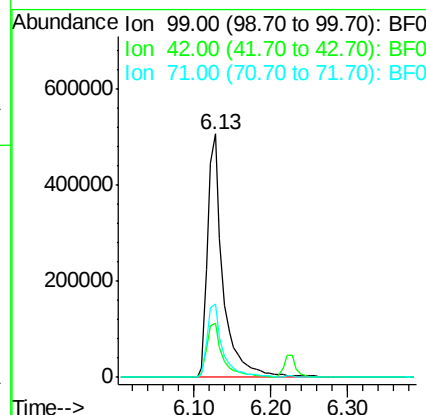
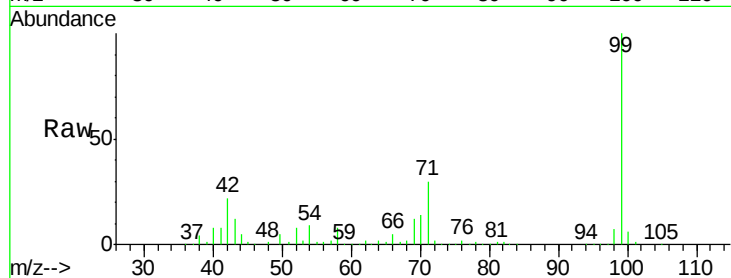
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 710013

Ion	Ratio	Lower	Upper
99	100		
42	22.2	13.5	20.3#
71	30.3	24.5	36.7



#19

n-Nitroso-di-n-propylamine

Concen: 8.19 ng

RT: 7.02 min Scan# 873

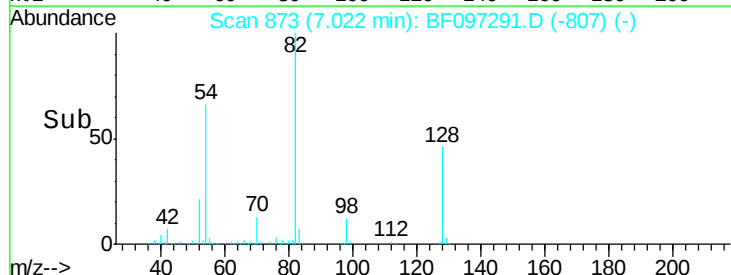
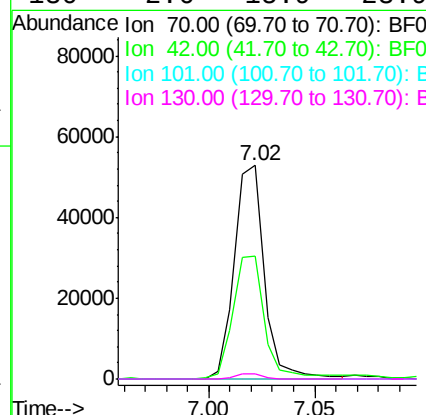
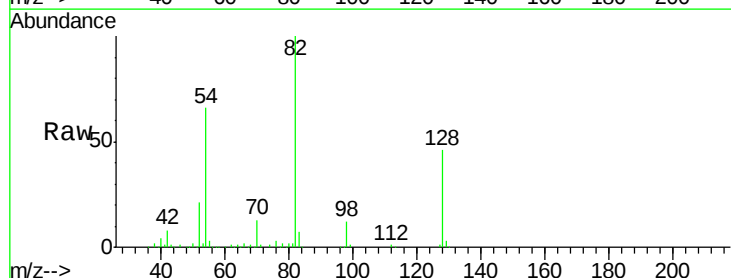
Delta R.T. 0.09 min

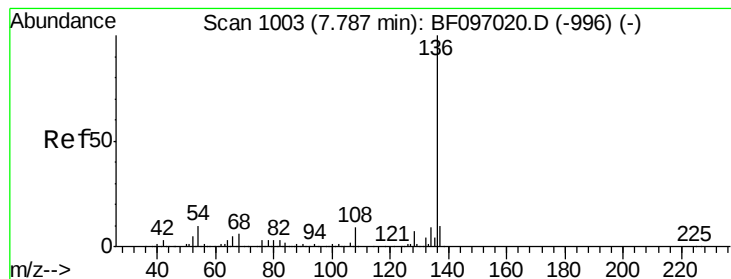
Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Tgt Ion: 70 Resp: 51939

Ion	Ratio	Lower	Upper
70	100		
42	57.3	47.2	70.8
101	0.0	7.2	10.8#
130	2.6	15.9	23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.73 min Scan# 994

Delta R.T. -0.05 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 514465

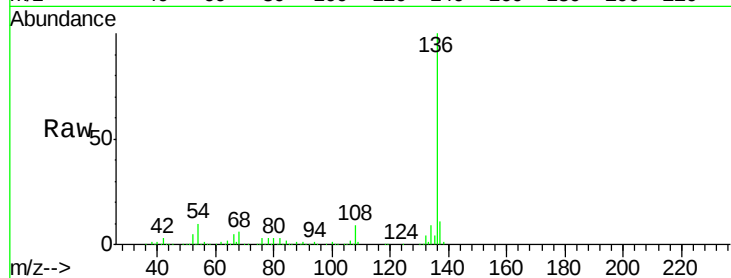
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 10.3 4.9 7.3#

68 5.5 4.1 6.1

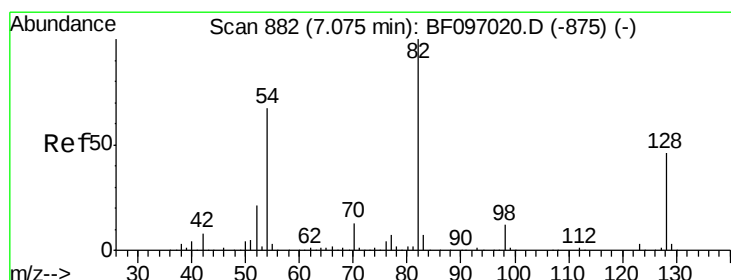
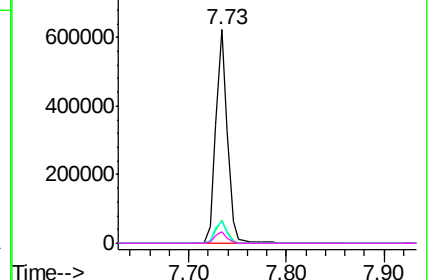
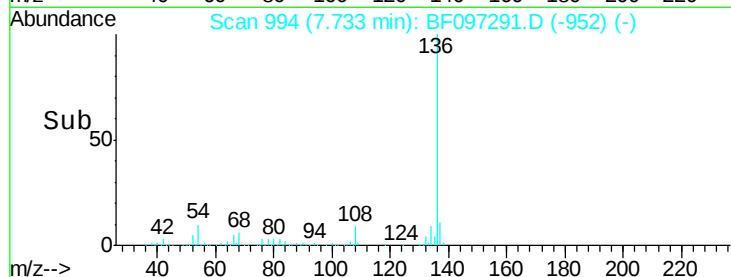


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 44.33 ng

RT: 7.02 min Scan# 873

Delta R.T. -0.05 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

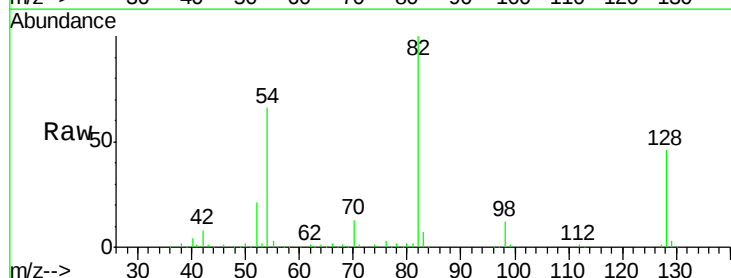
Tgt Ion: 82 Resp: 388782

Ion Ratio Lower Upper

82 100

128 45.8 34.0 51.0

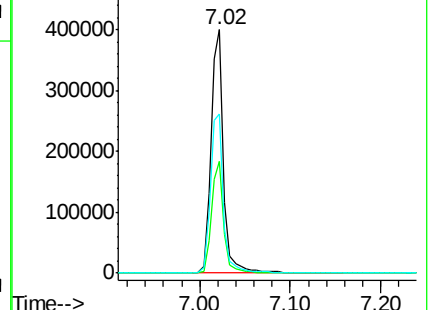
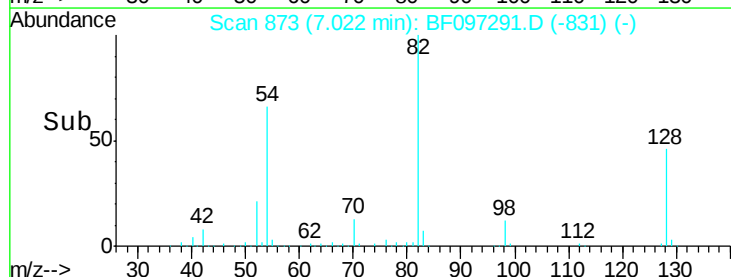
54 65.6 42.2 63.2#

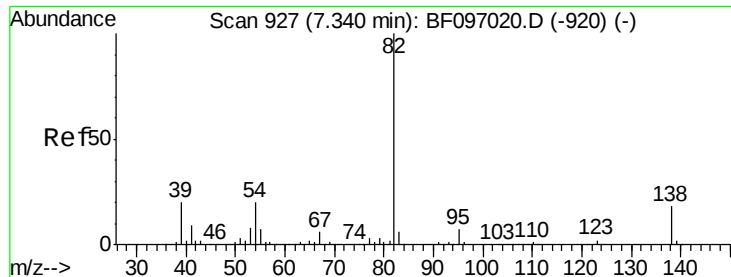


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 22.18 ng

RT: 7.02 min Scan# 873

Delta R.T. -0.32 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampleId :

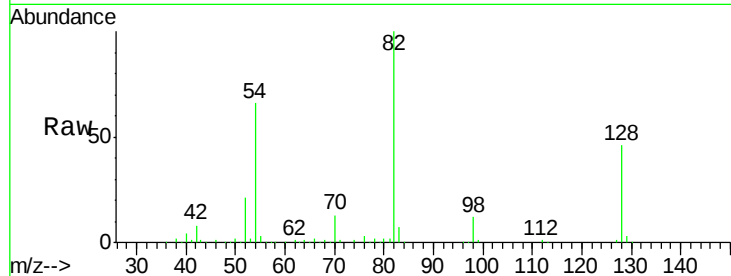
Tot Ion: 82 Resp: 380942

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

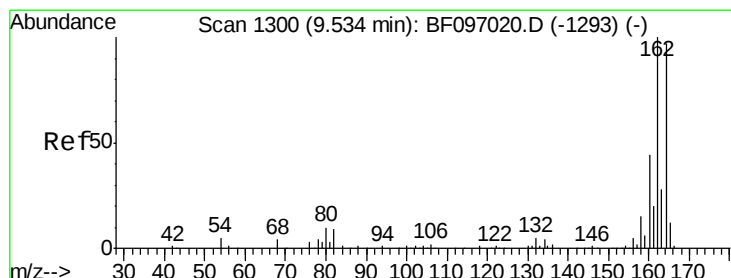
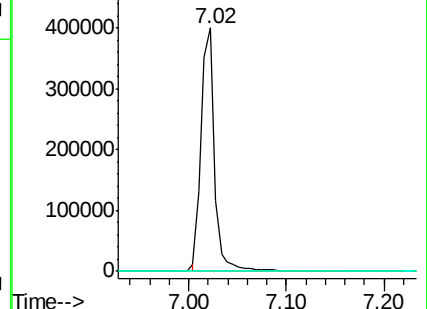
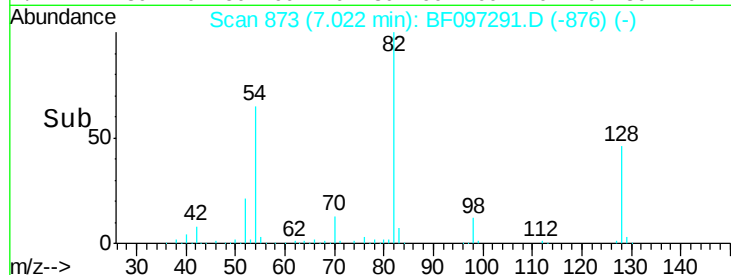
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.47 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

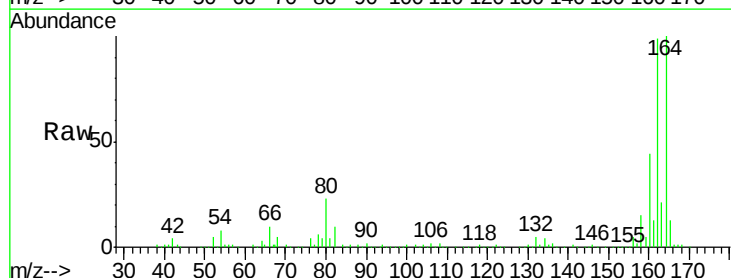
Tgt Ion: 164 Resp: 208508

Ion Ratio Lower Upper

164 100

162 98.6 82.6 123.8

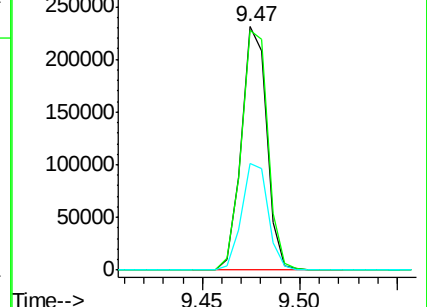
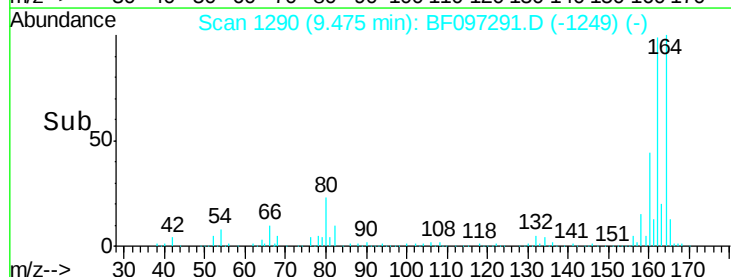
160 44.0 36.2 54.2

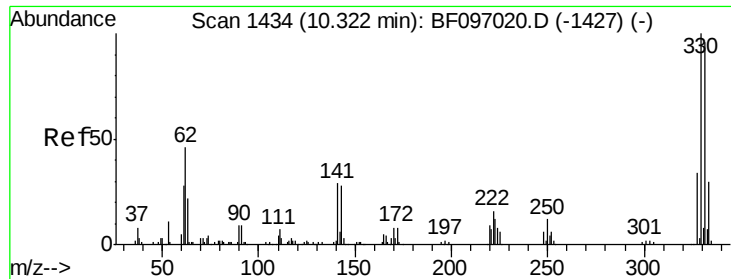


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

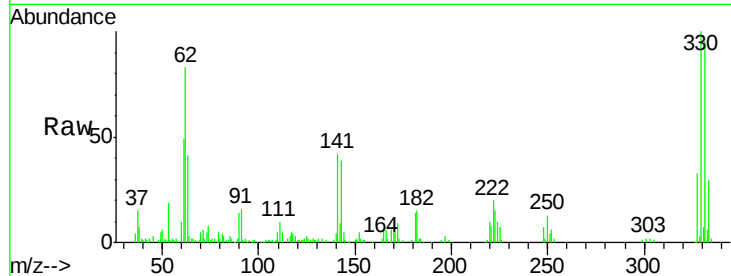




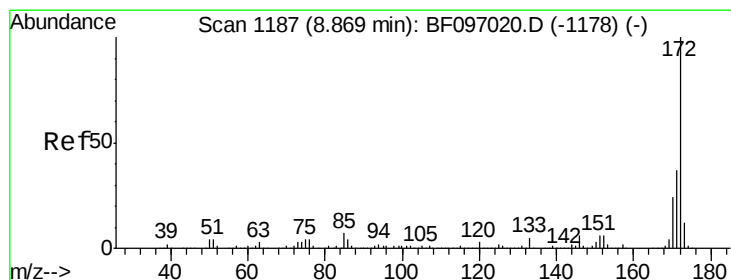
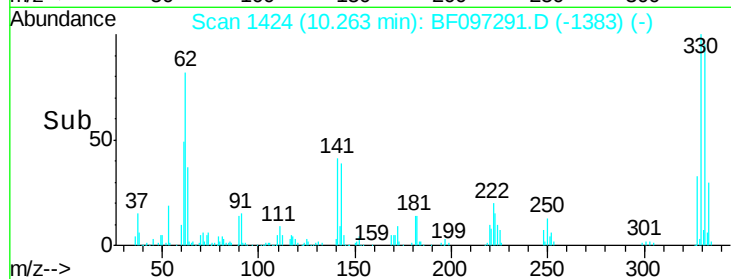
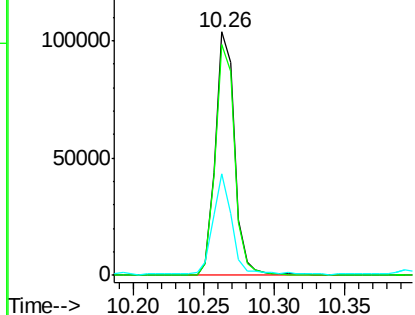
#41
 2,4,6-Tribromophenol
 Concen: 59.97 ng
 RT: 10.26 min Scan# 1424
 Delta R.T. -0.06 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 98802
 Ion Ratio Lower Upper
 330 100
 332 95.7 76.6 115.0
 141 41.3 31.4 47.2

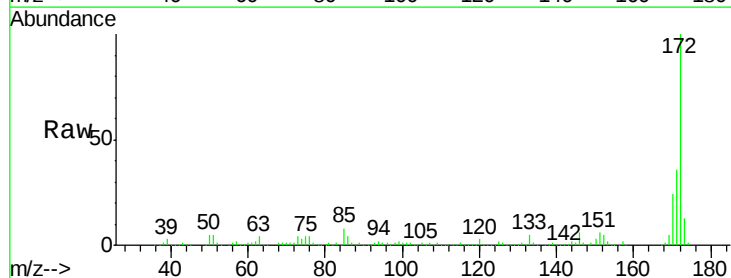


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

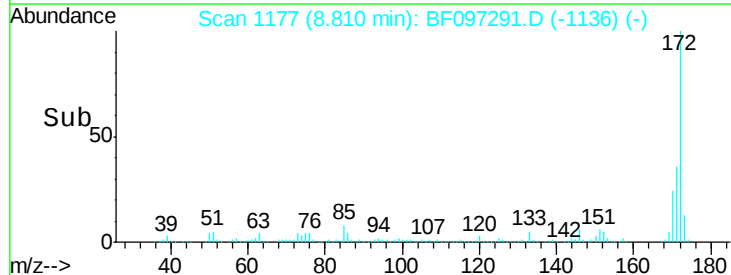
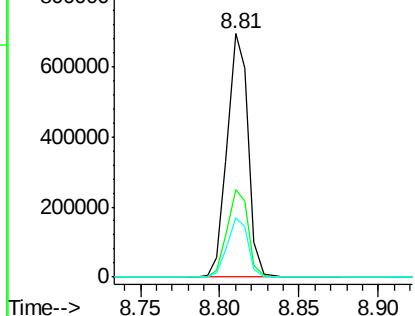


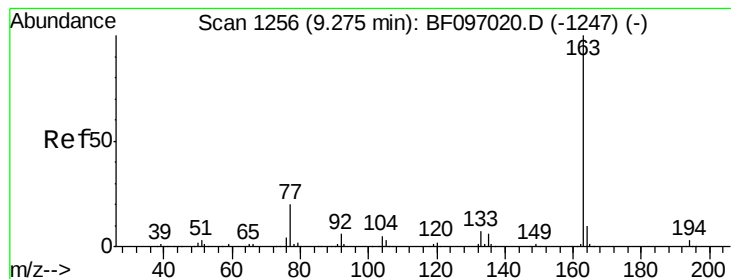
#44
 2-Fluorobiphenyl
 Concen: 51.90 ng
 RT: 8.81 min Scan# 1177
 Delta R.T. -0.06 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Tgt Ion:172 Resp: 637593
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.6 44.4
 170 24.2 19.8 29.8



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

Dimethylphthalate

Concen: 8.16 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.06 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampleId :

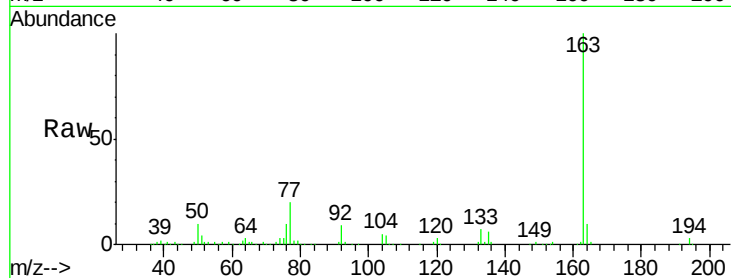
Tot Ion:163 Resp: 129143

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

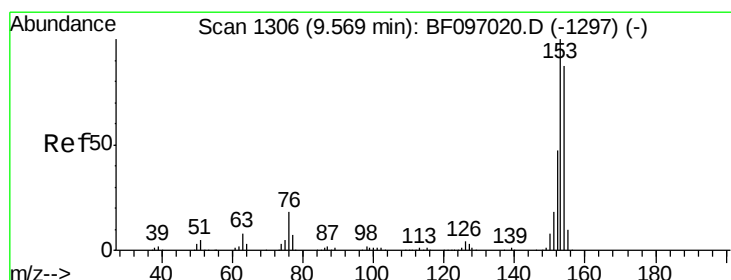
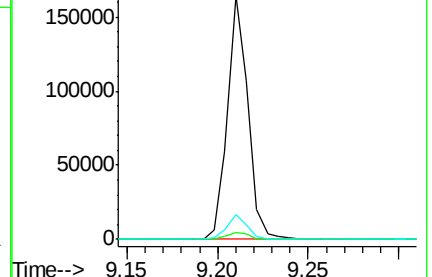
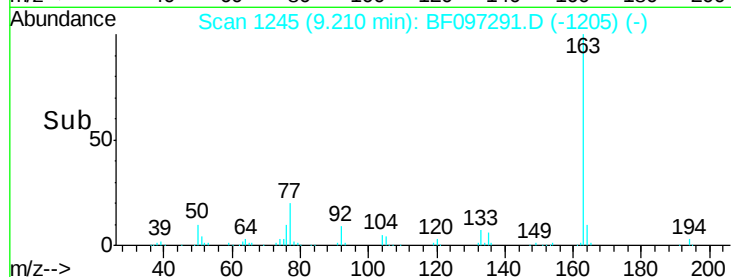
164 10.2 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 3.50 ng

RT: 9.51 min Scan# 1296

Delta R.T. -0.06 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

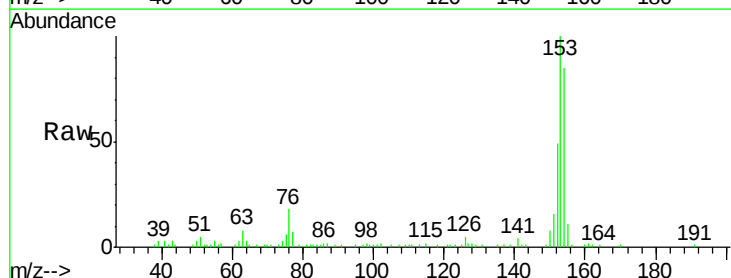
Tgt Ion:154 Resp: 41443

Ion Ratio Lower Upper

154 100

153 117.2 90.5 135.7

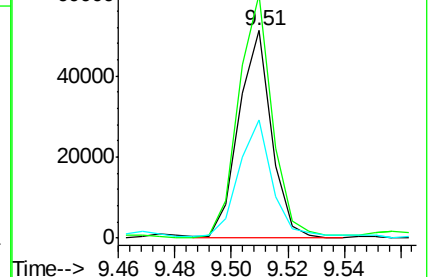
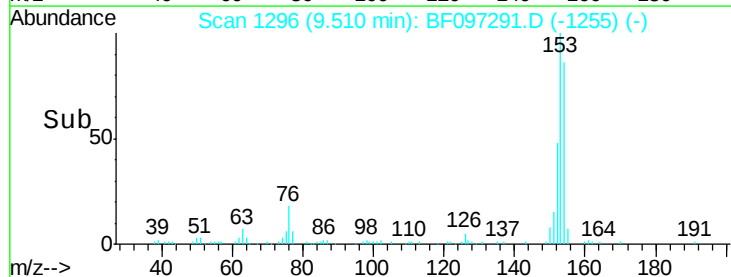
152 57.2 43.6 65.4

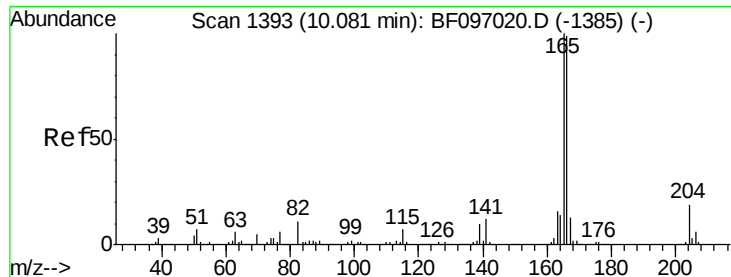


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

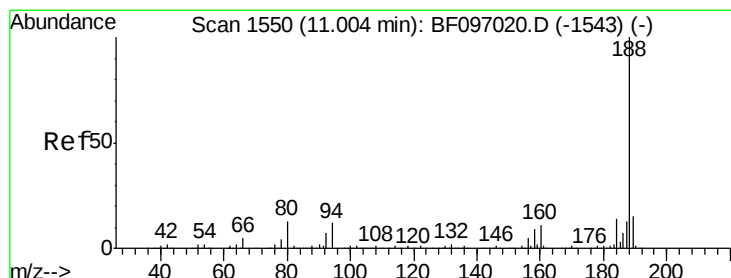
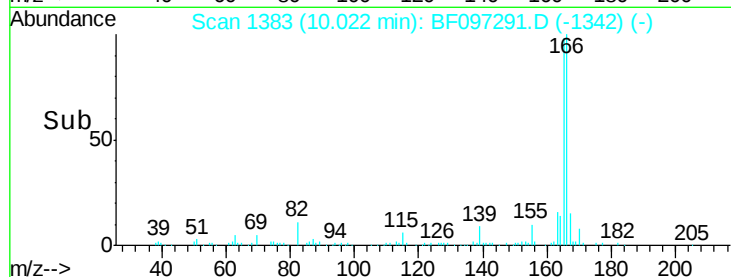
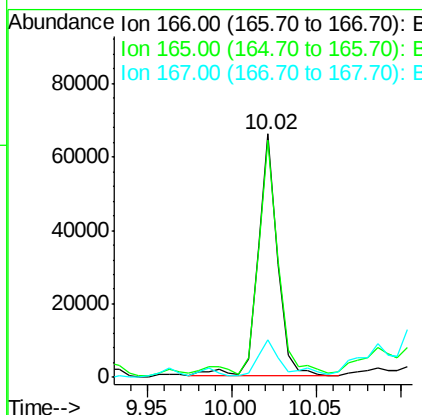
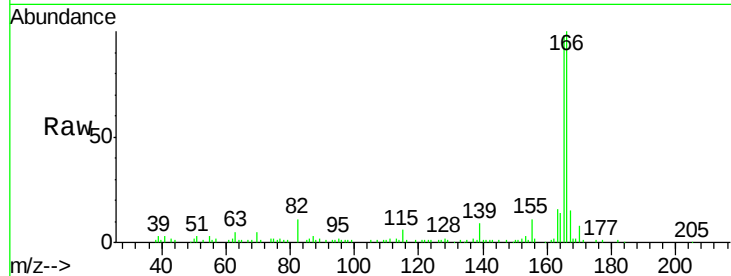




#57
Fluorene
 Concen: 4.45 ng
 RT: 10.02 min Scan# 1383
 Delta R.T. -0.06 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

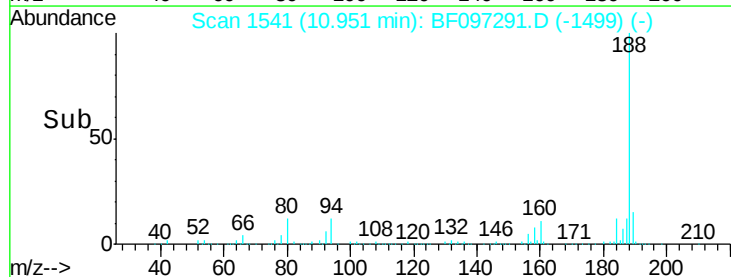
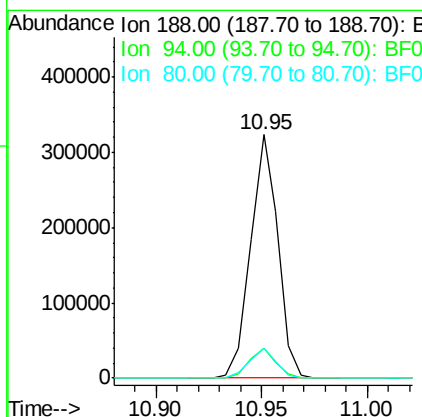
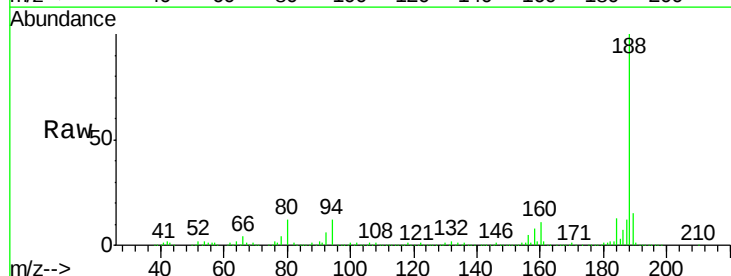
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 52800
 Ion Ratio Lower Upper
 166 100
 165 97.5 78.8 118.2
 167 15.3 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.95 min Scan# 1541
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Tgt Ion:188 Resp: 289775
 Ion Ratio Lower Upper
 188 100
 94 12.1 9.4 14.2
 80 12.3 10.2 15.2

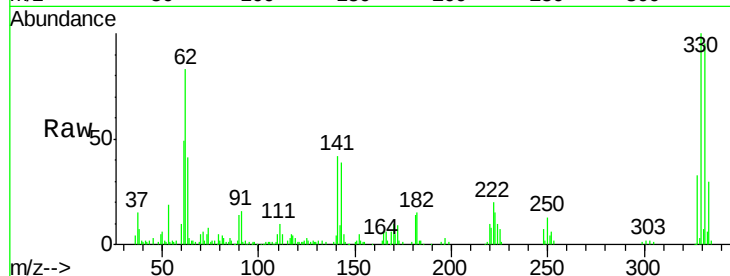




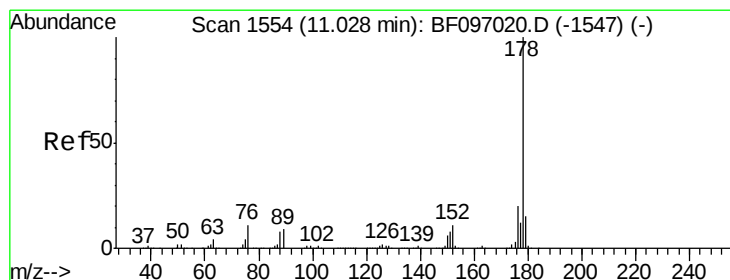
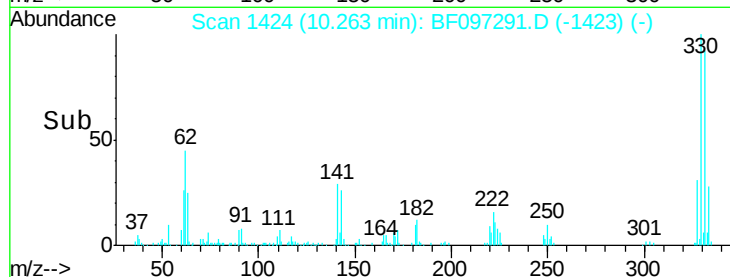
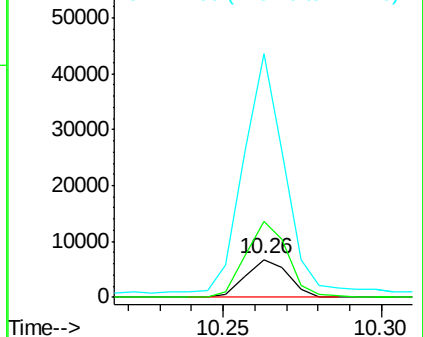
#66
 4-Bromophenyl-phenylether
 Concen: 2.18 ng
 RT: 10.26 min Scan# 1424
 Delta R.T. -0.29 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 6309
 Ion Ratio Lower Upper
 248 100
 250 199.9 76.8 115.2#
 141 643.4 68.6 103.0#

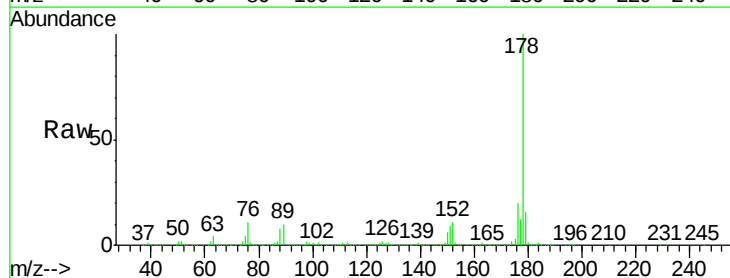


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

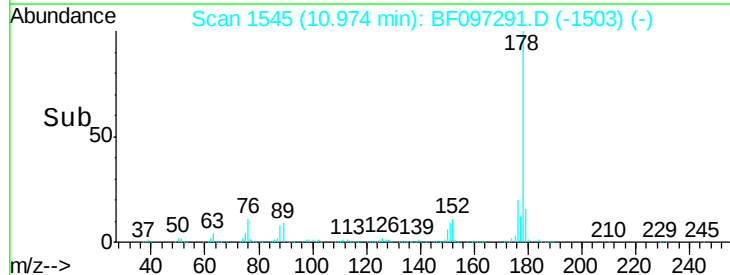
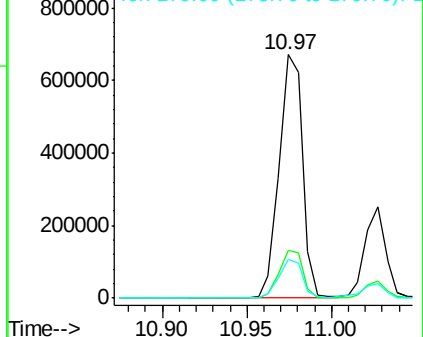


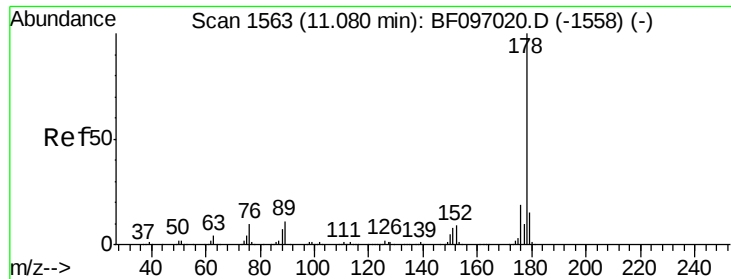
#70
 Phenanthrene
 Concen: 41.62 ng
 RT: 10.97 min Scan# 1545
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Tgt Ion:178 Resp: 646144
 Ion Ratio Lower Upper
 178 100
 176 19.5 16.2 24.4
 179 15.7 12.6 19.0



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

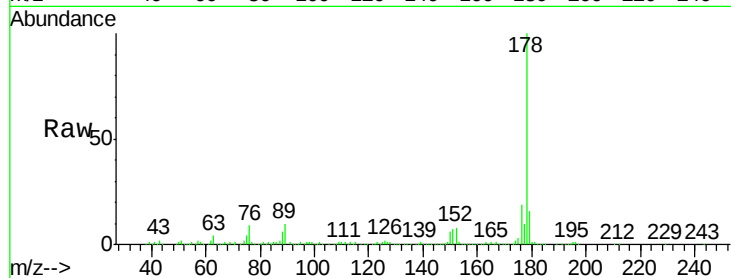




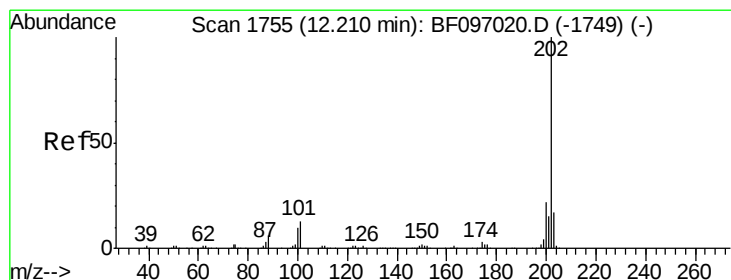
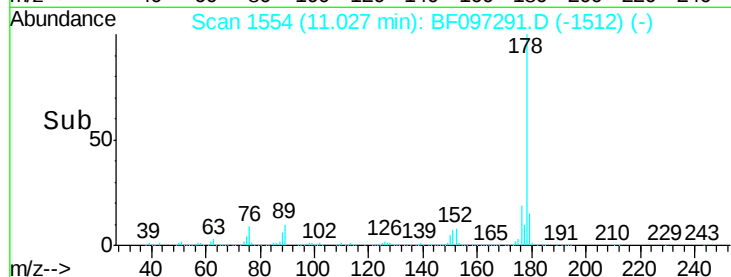
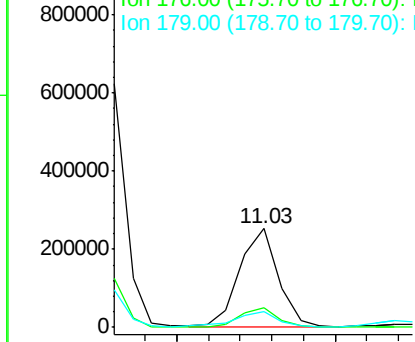
#71
 Anthracene
 Concen: 13.27 ng
 RT: 11.03 min Scan# 1554
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 211000
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.8
 179 15.6 12.7 19.1

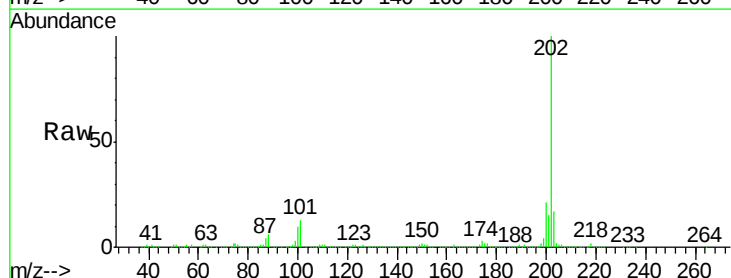


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

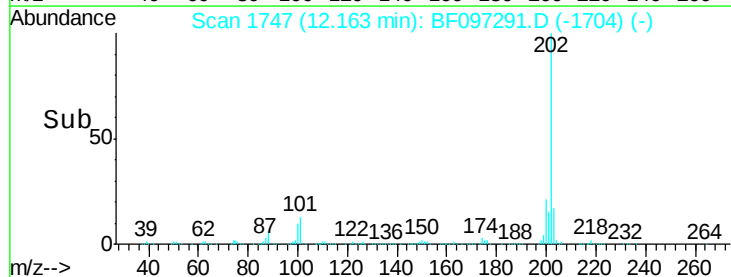
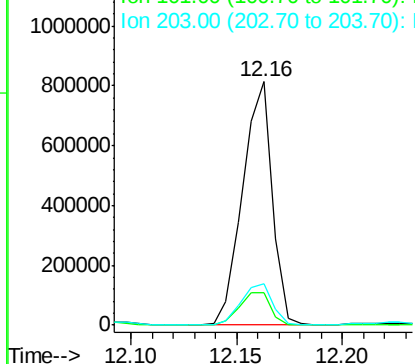


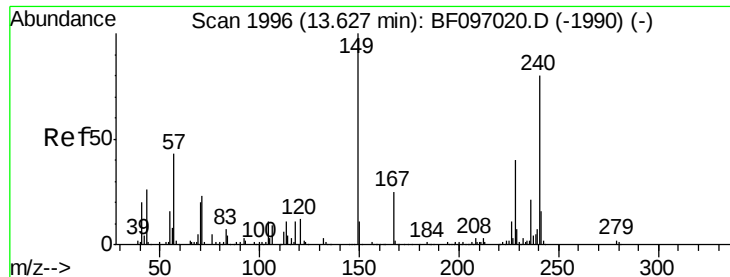
#74
 Fluoranthene
 Concen: 51.83 ng
 RT: 12.16 min Scan# 1747
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Tgt Ion:202 Resp: 788293
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 33.2
 203 17.0 0.0 38.1



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.58 min Scan# 1988

Delta R.T. -0.05 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampleId :

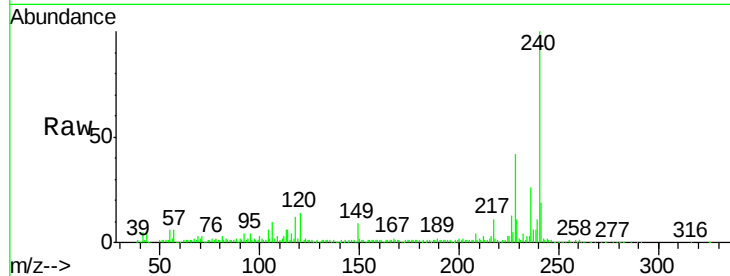
Tot Ion:240 Resp: 206593

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

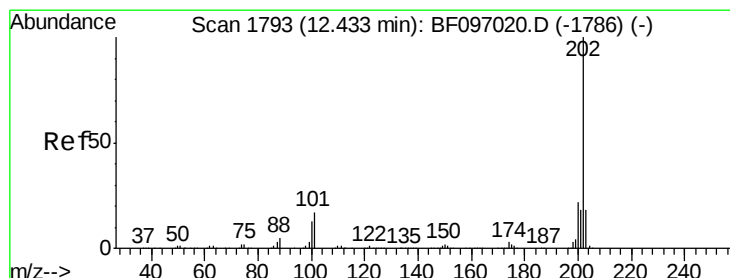
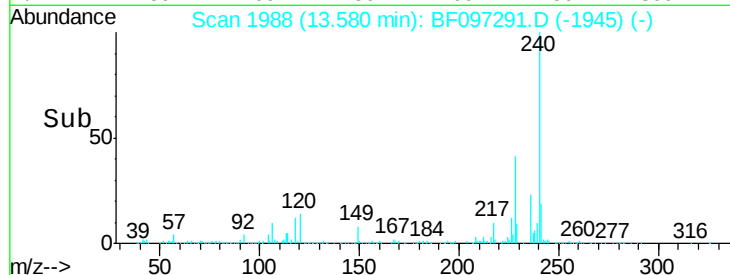
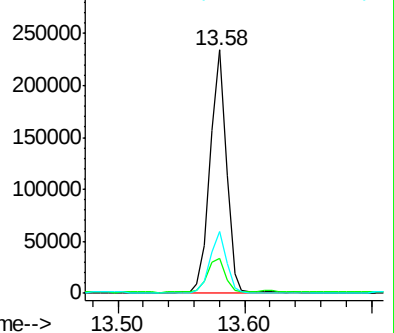
236 25.6 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 48.04 ng

RT: 12.39 min Scan# 1785

Delta R.T. -0.05 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

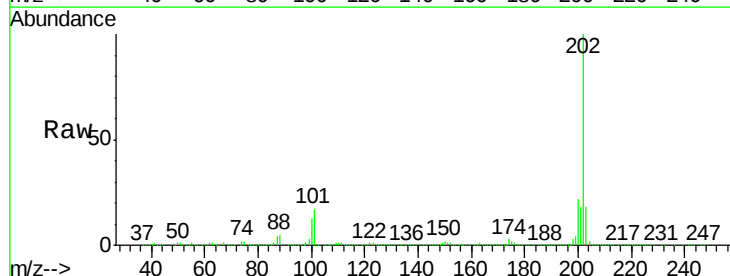
Tgt Ion:202 Resp: 812528

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

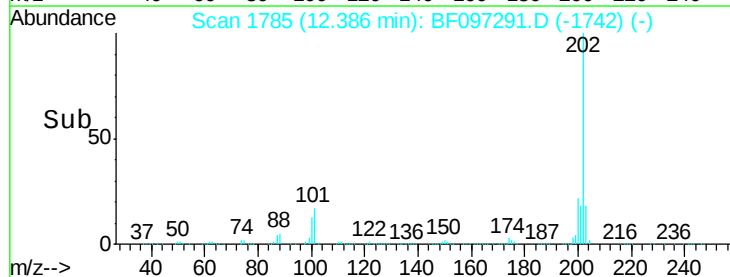
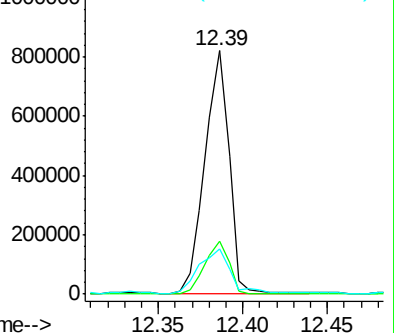
203 18.3 14.4 21.6

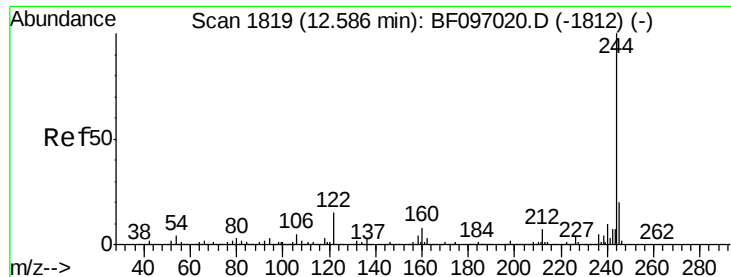


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

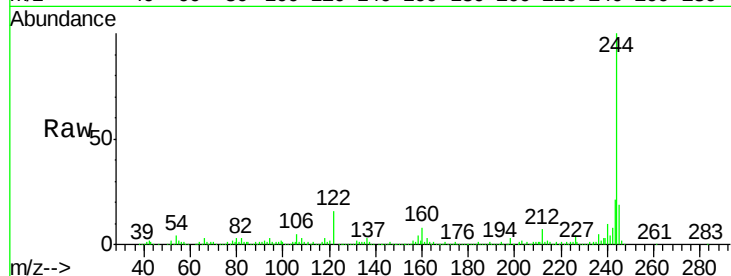




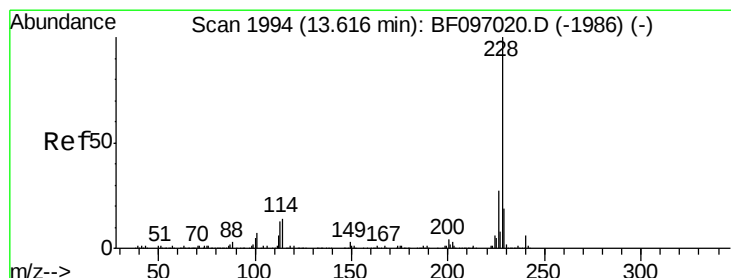
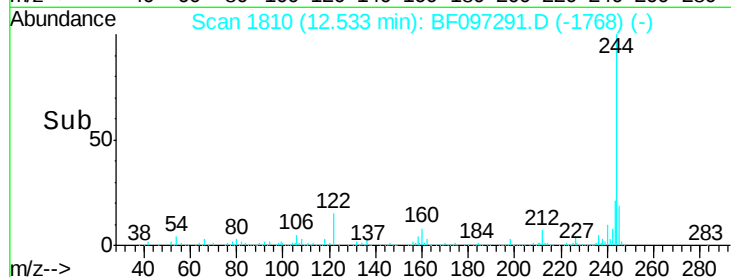
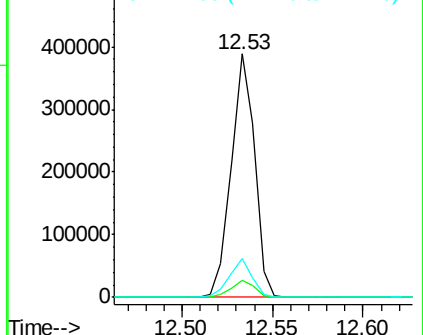
#78
 Terphenyl-d14
 Concen: 34.66 ng
 RT: 12.53 min Scan# 1810
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:244 Resp: 351220
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.0 9.0
 122 15.7 10.3 15.5#

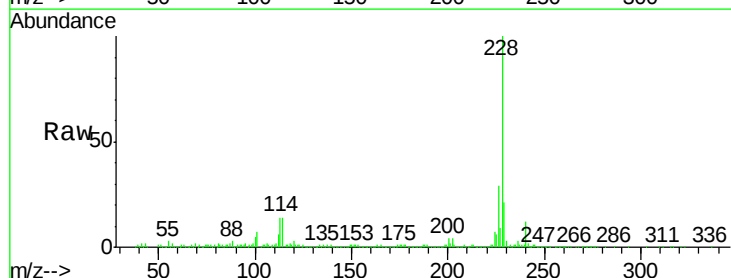


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

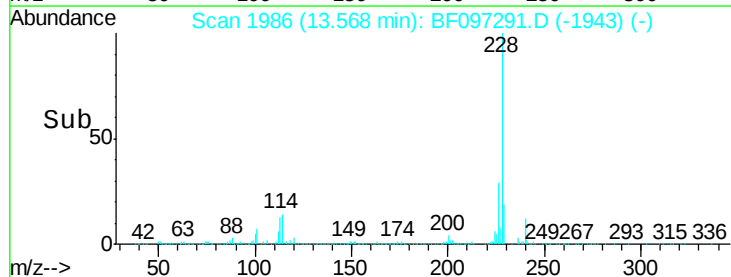
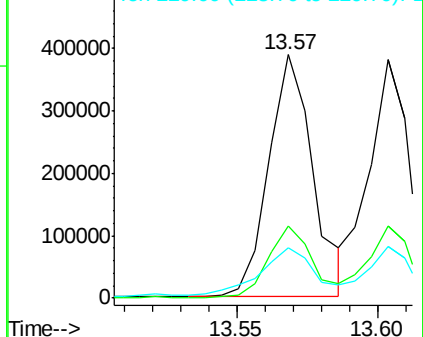


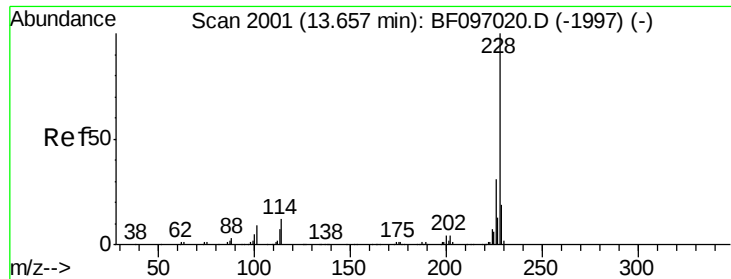
#80
 Benzo(a)anthracene
 Concen: 31.58 ng
 RT: 13.57 min Scan# 1986
 Delta R.T. -0.05 min
 Lab File: BF097291.D
 Acq: 2 Aug 2017 23:30

Tgt Ion:228 Resp: 422185
 Ion Ratio Lower Upper
 228 100
 226 29.4 22.6 33.8
 229 20.6 16.3 24.5



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





#82

Chrysene

Concen: 28.43 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.05 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampled :

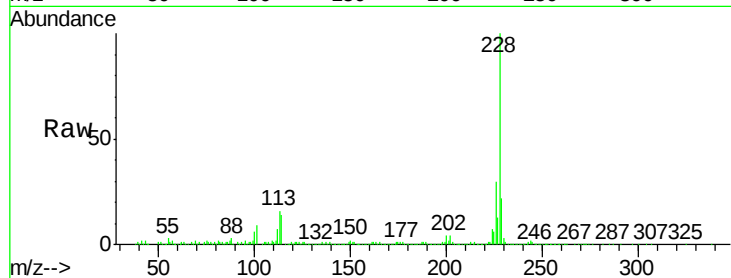
Tot Ion:228 Resp: 371065

Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

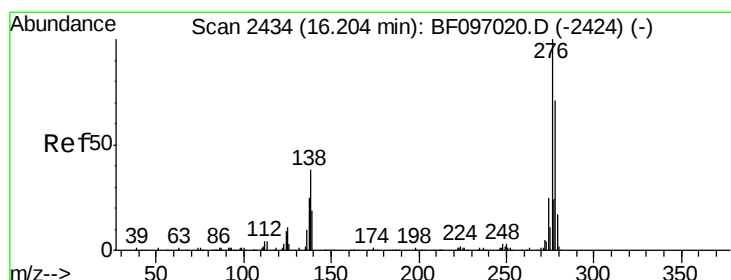
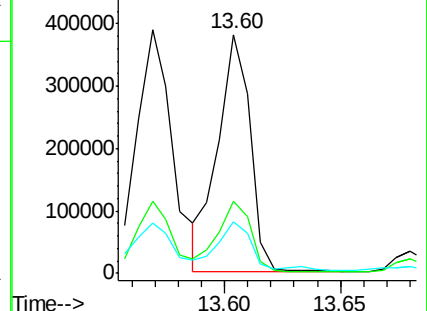
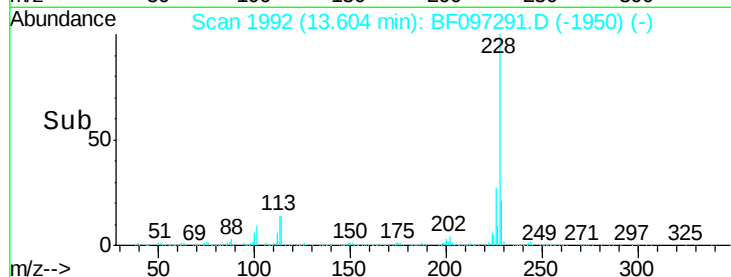
229 21.7 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.43 ng

RT: 16.13 min Scan# 2422

Delta R.T. -0.07 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

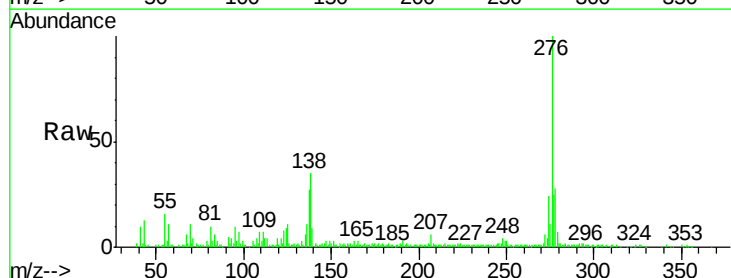
Tgt Ion:276 Resp: 116770

Ion Ratio Lower Upper

276 100

138 34.5 27.8 41.6

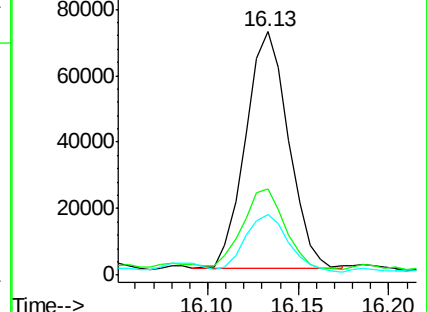
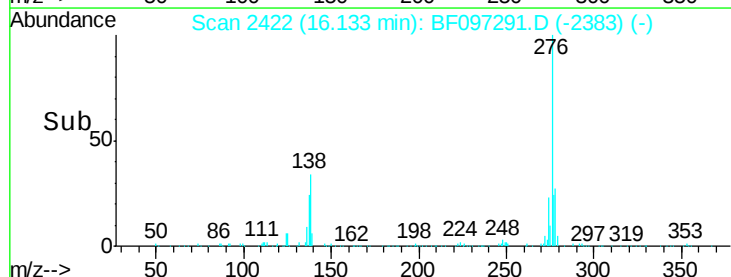
277 24.6 20.2 30.4

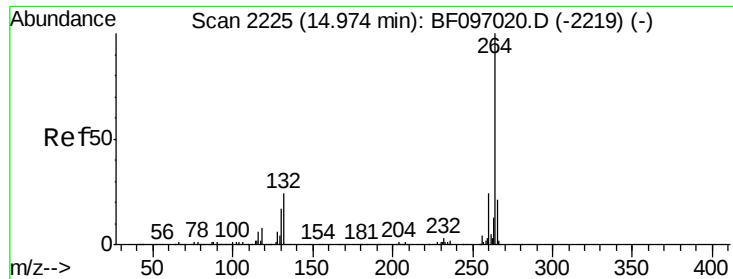


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

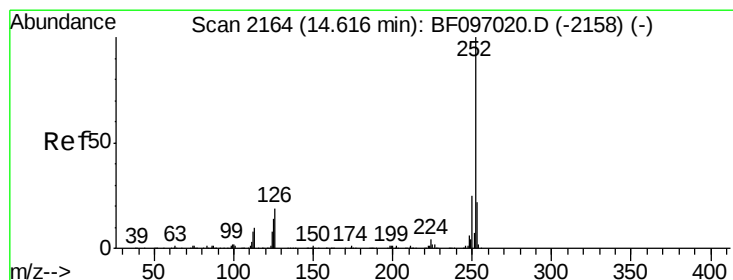
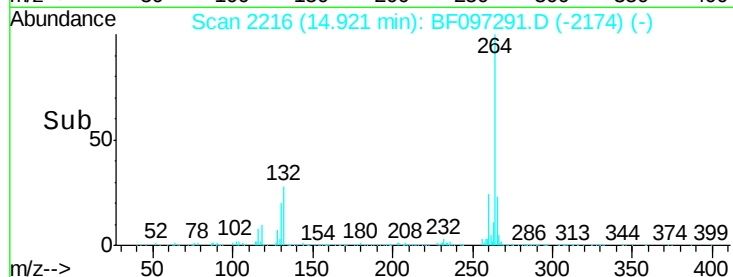
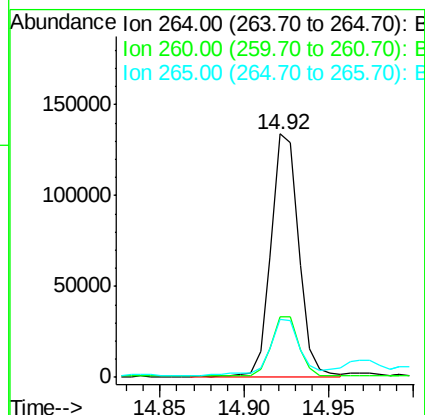
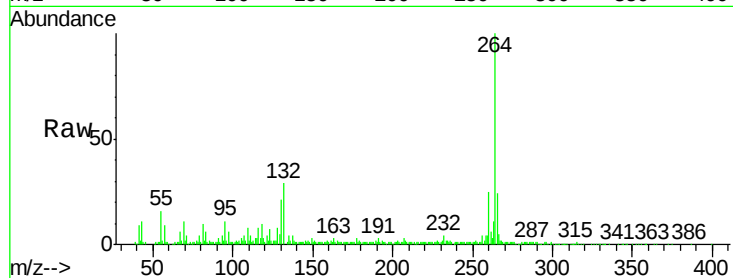




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.05 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

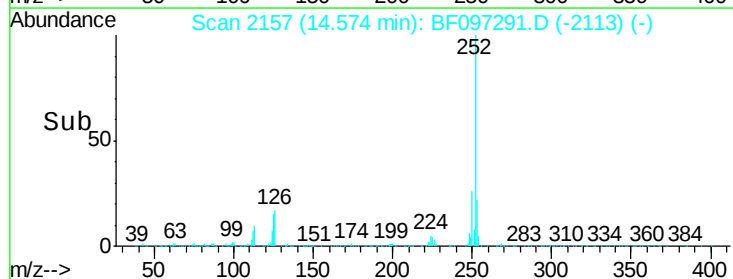
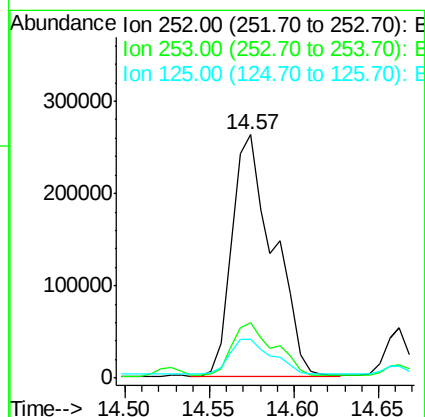
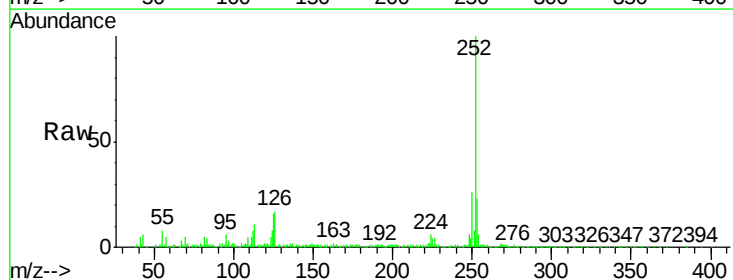
Instrument :
BNA_F
ClientSampleId :

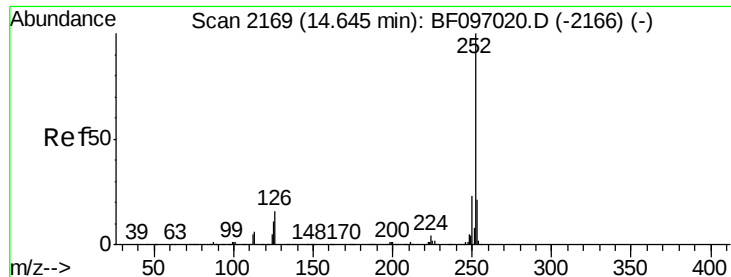
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	23.6	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 48.82 ng
RT: 14.57 min Scan# 2157
Delta R.T. -0.04 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	15.9	9.8	14.8#

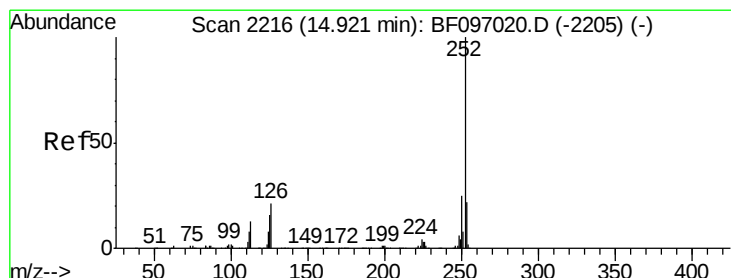
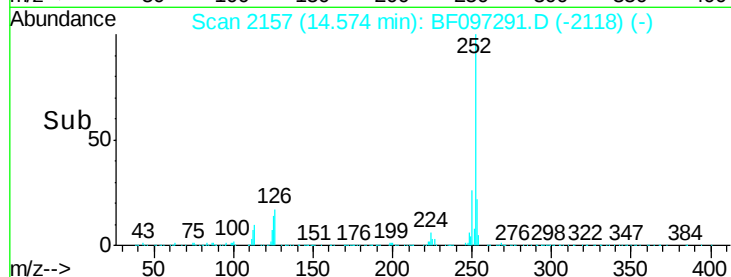
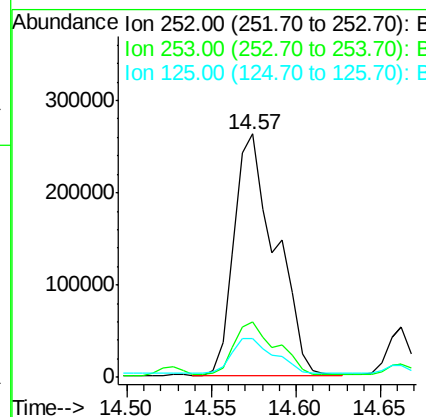
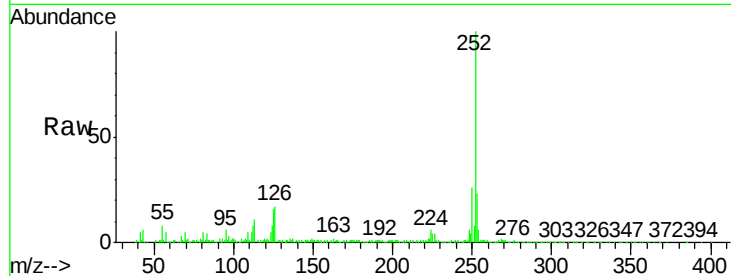




#88
Benzo(k)fluoranthene
Concen: 51.23 ng
RT: 14.57 min Scan# 2157
Delta R.T. -0.07 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

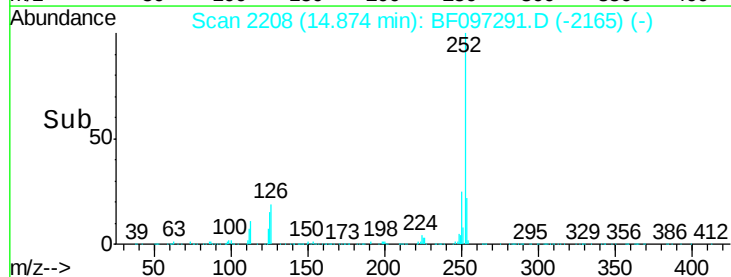
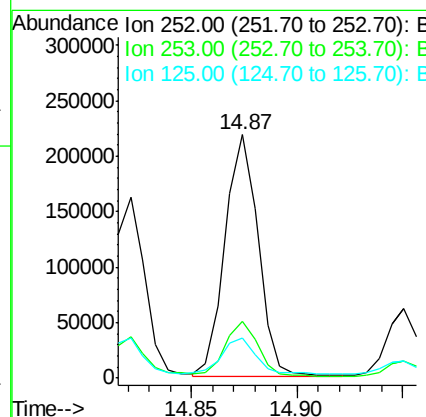
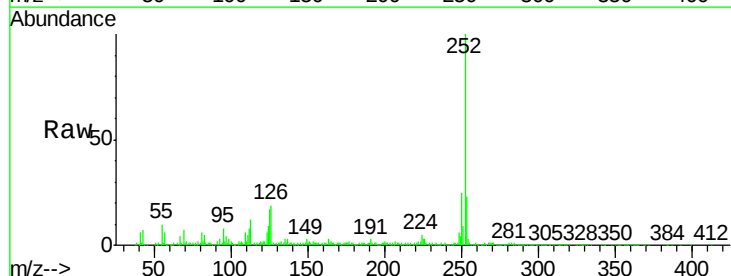
Instrument :
BNA_F
ClientSampleId :

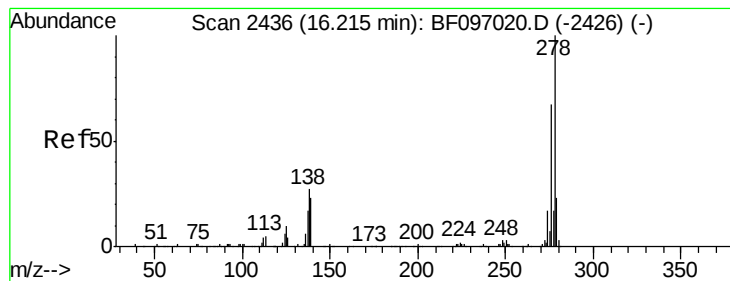
Tot Ion:252 Resp: 445842
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 15.9 13.1 19.7



#89
Benzo(a)pyrene
Concen: 28.53 ng
RT: 14.87 min Scan# 2208
Delta R.T. -0.05 min
Lab File: BF097291.D
Acq: 2 Aug 2017 23:30

Tgt Ion:252 Resp: 238423
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 16.5 11.0 16.4#





#90

Dibenzo(a,h)anthracene

Concen: 5.04 ng

RT: 16.13 min Scan# 2422

Delta R.T. -0.08 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

Instrument :

BNA_F

ClientSampleId :

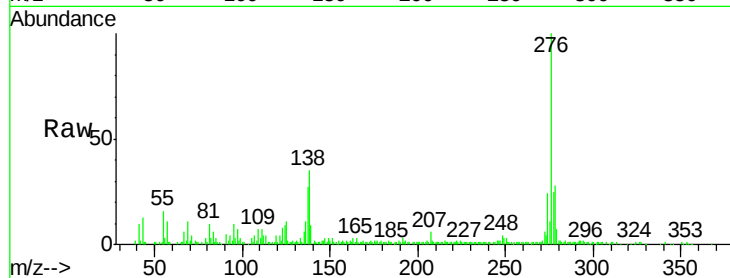
Tot Ion:278 Resp: 34543

Ion Ratio Lower Upper

278 100

139 31.5 16.6 24.8#

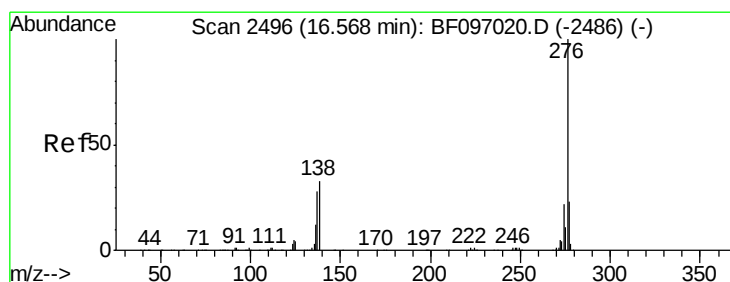
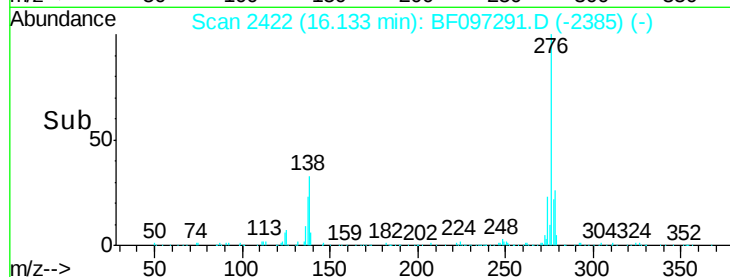
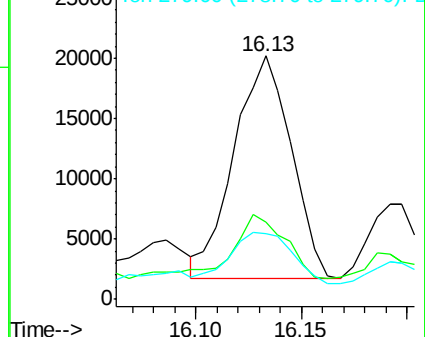
279 27.2 19.3 28.9



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



#91

Benzo(g,h,i)perylene

Concen: 17.23 ng

RT: 16.49 min Scan# 2483

Delta R.T. -0.08 min

Lab File: BF097291.D

Acq: 2 Aug 2017 23:30

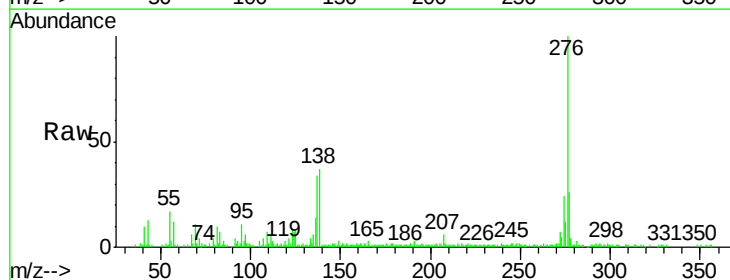
Tgt Ion:276 Resp: 123875

Ion Ratio Lower Upper

276 100

277 25.8 18.6 28.0

138 36.7 25.4 38.0



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

