

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096362.D
 Acq On : 1 Jul 2017 3:20
 Operator : SJ/MA
 Sample : I3930-11
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 01 04:06:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	160035	20.00	ng	-0.02
21) Naphthalene-d8	8.04	136	629777	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	232564	20.00	ng	-0.02
63) Phenanthrene-d10	11.27	188	355098	20.00	ng	-0.01
75) Chrysene-d12	13.90	240	291786	20.00	ng	-0.01
86) Perylene-d12	15.33	264	199604	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	1202020	108.21	ng	0.00
7) Phenol-d6	6.40	99	1446096	107.51	ng	0.00
23) Nitrobenzene-d5	7.32	82	822375	90.40	ng	-0.04
41) 2,4,6-Tribromophenol	10.58	330	251349	137.33	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	1103228	86.88	ng	-0.03
78) Terphenyl-d14	12.86	244	759149	64.92	ng	-0.01

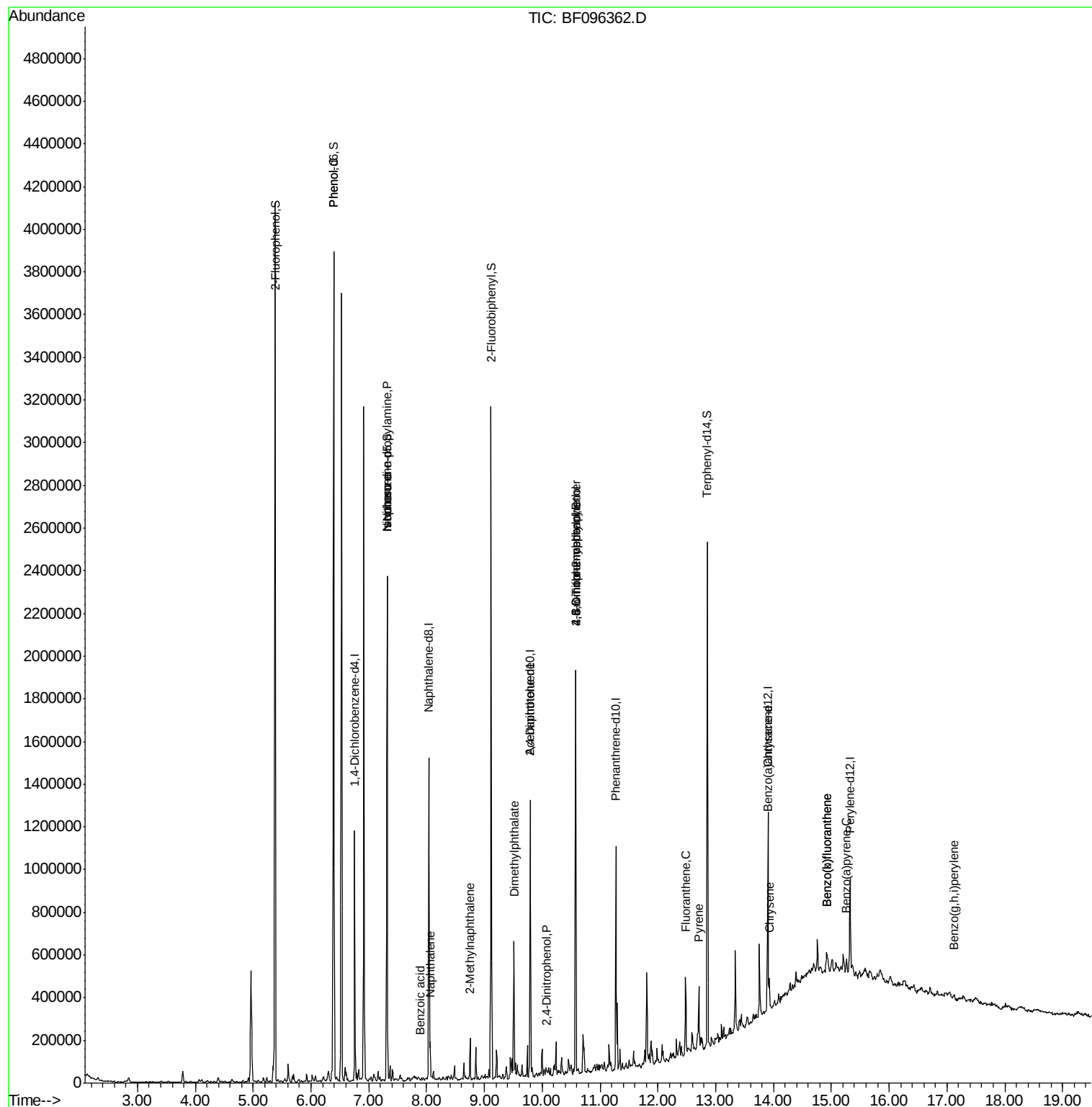
Target Compounds				Qvalue		
9) Benzaldehyde	6.30	77	6241	Below Cal		92
10) Phenol	6.40	94	33505	2.27 ng		89
19) n-Nitroso-di-n-propylamine	7.32	70	110592	13.72 ng	#	88
25) Isophorone	7.32	82	822119	39.79 ng	#	67
31) Naphthalene	8.06	128	68159	2.25 ng		99
32) Benzoic acid	7.89	122	116	8.80 ng	#	79
37) 2-Methylnaphthalene	8.75	142	48688	2.47 ng		95
49) Dimethylphthalate	9.51	163	233512	14.03 ng		98
53) 2,4-Dinitrophenol	10.08	184	113	7.64 ng	#	4
56) 2,4-Dinitrotoluene	9.79	165	29981	6.87 ng	#	33
57) Fluorene	10.34	166	7798	Below Cal	#	89
60) 4-Chlorophenyl-phenylether	10.15	204	120	Below Cal	#	21
64) 4,6-Dinitro-2-methylphenol	10.58	198	334	8.90 ng	#	1
66) 4-Bromophenyl-phenylether	10.58	248	12649	3.46 ng	#	1
70) Phenanthrene	11.30	178	117441	Below Cal		98
74) Fluoranthene	12.48	202	123974	6.28 ng		96
77) Pyrene	12.71	202	125423	5.23 ng		97
80) Benzo(a)anthracene	13.89	228	52128	2.93 ng		93
82) Chrysene	13.93	228	52368	2.85 ng		97
87) Benzo(b)fluoranthene	14.92	252	70055	5.34 ng	#	89
88) Benzo(k)fluoranthene	14.92	252	70055	5.85 ng	#	93
89) Benzo(a)pyrene	15.26	252	30101	2.60 ng	#	73
91) Benzo(g,h,i)perylene	17.12	276	22560	2.39 ng	#	87

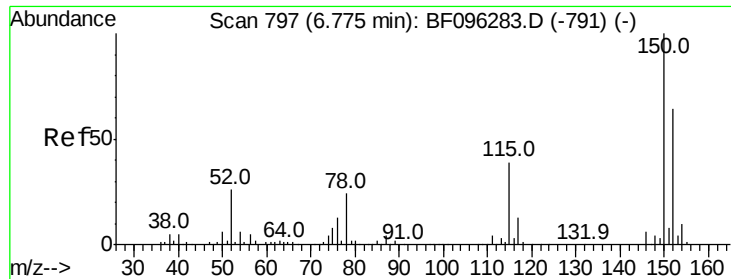
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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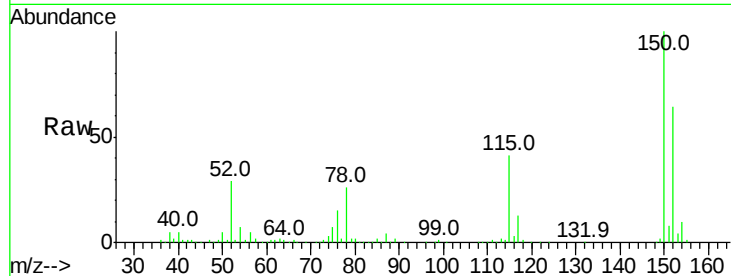


#1

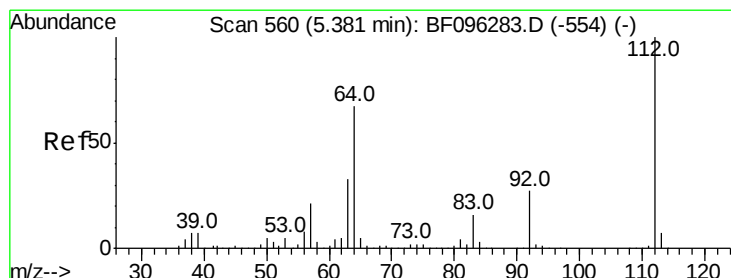
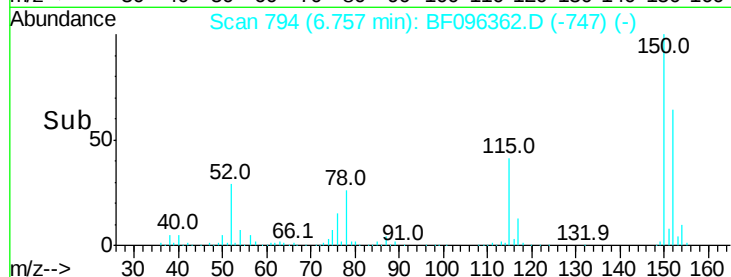
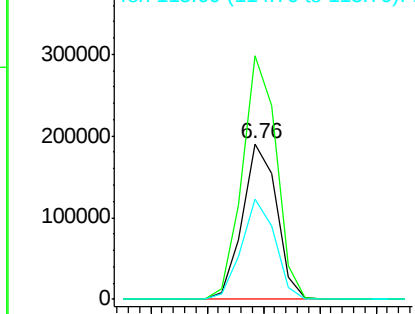
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.02 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 160035
Ion Ratio Lower Upper
152 100
150 156.3 126.2 189.2
115 64.8 52.2 78.2



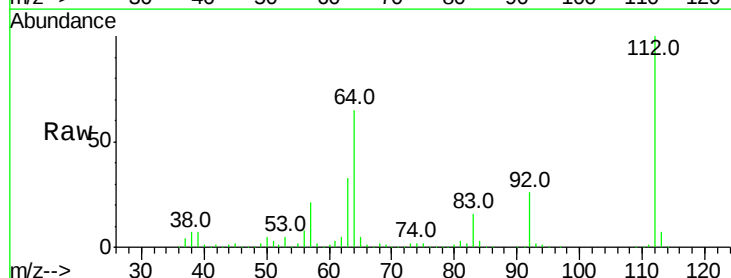
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



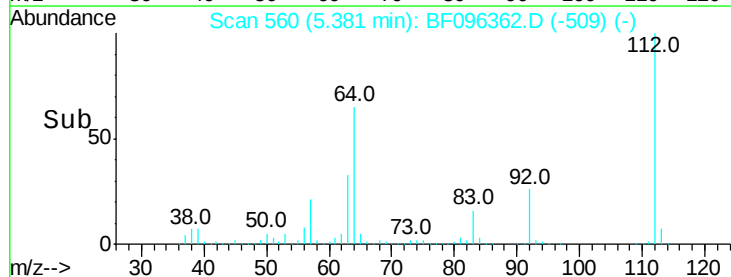
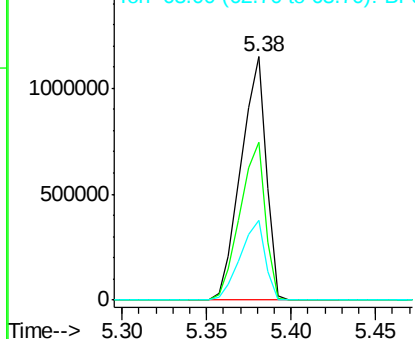
#5

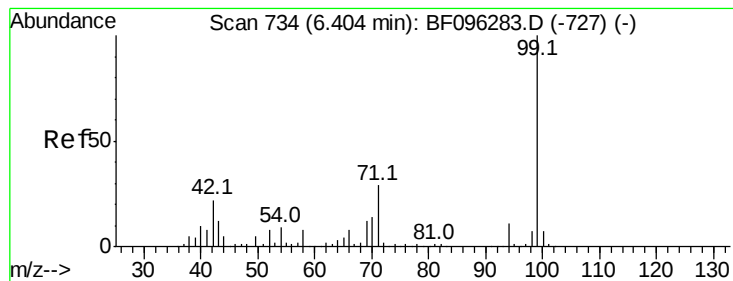
2-Fluorophenol
Concen: 108.21 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion:112 Resp: 1202020
Ion Ratio Lower Upper
112 100
64 65.0 46.0 69.0
63 33.0 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: 107.51 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

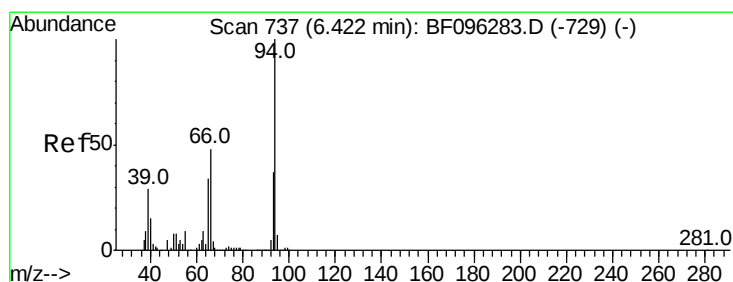
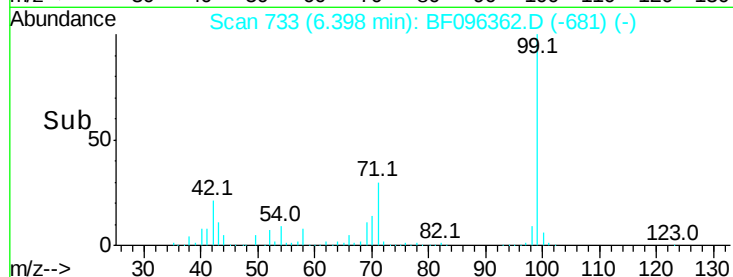
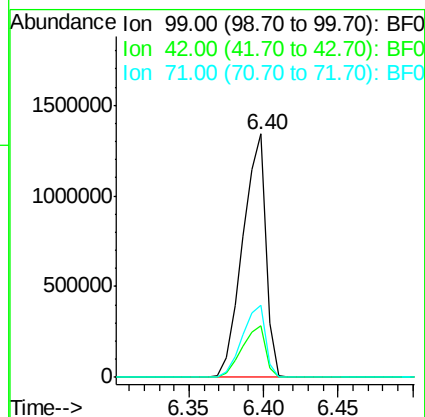
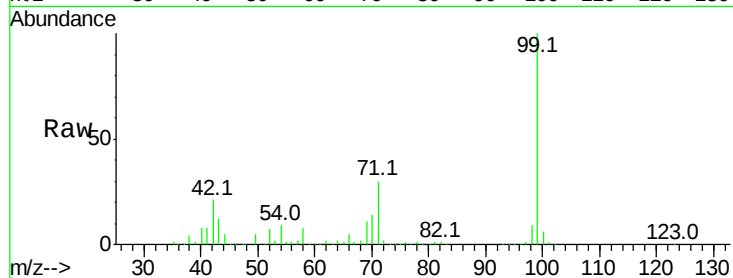
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1446096

Ion	Ratio	Lower	Upper
99	100		
42	21.0	13.5	20.3#
71	29.8	24.5	36.7



#10

Phenol

Concen: 2.27 ng

RT: 6.40 min Scan# 734

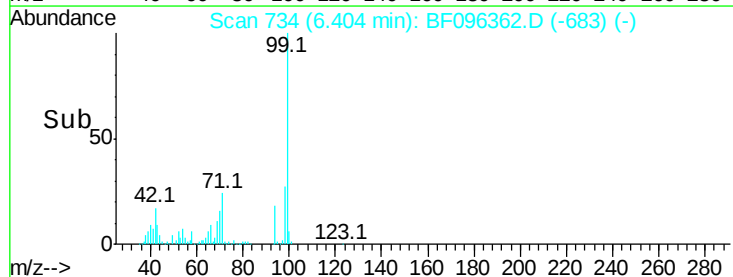
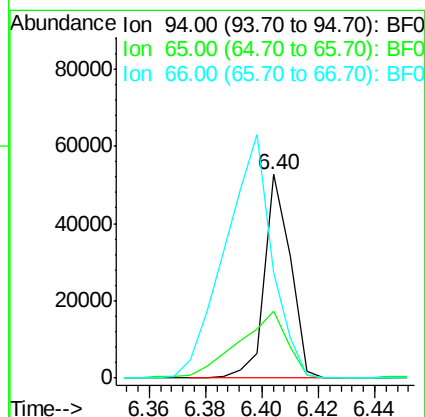
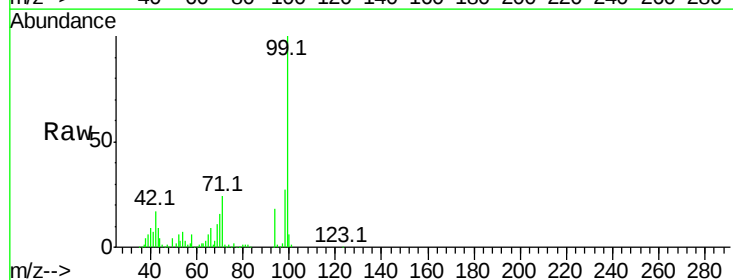
Delta R.T. -0.00 min

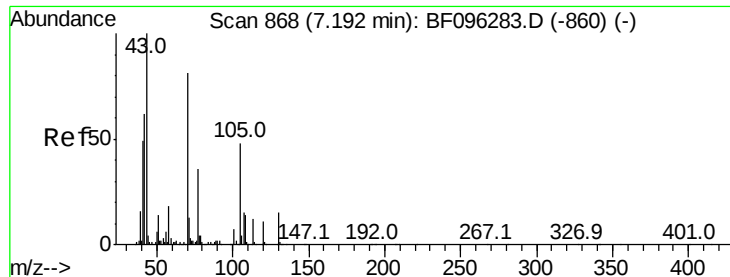
Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

Tgt Ion: 94 Resp: 33505

Ion	Ratio	Lower	Upper
94	100		
65	33.2	9.9	49.9
66	51.8	23.1	63.1

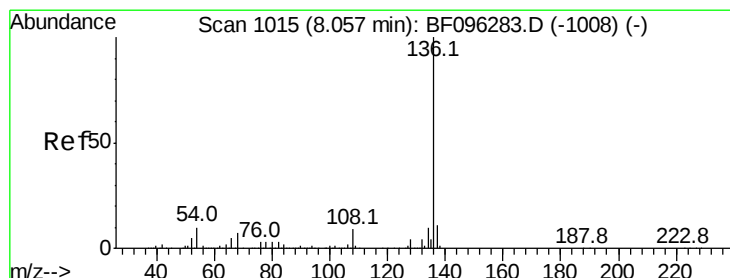
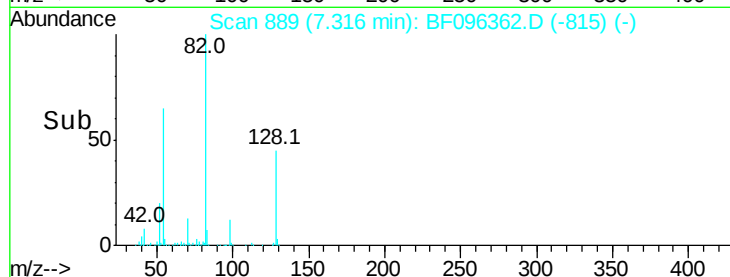
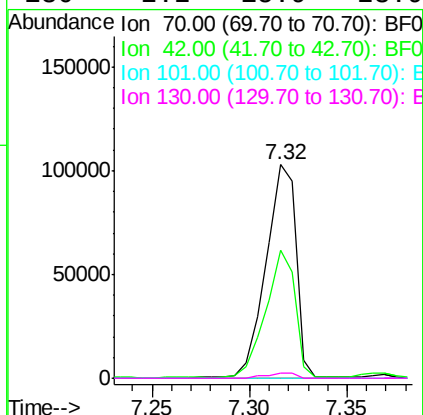
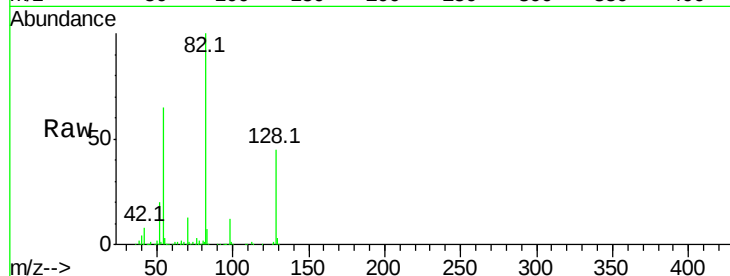




#19
n-Nitroso-di-n-propylamine
Concen: 13.72 ng
RT: 7.32 min Scan# 889
Delta R.T. 0.14 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

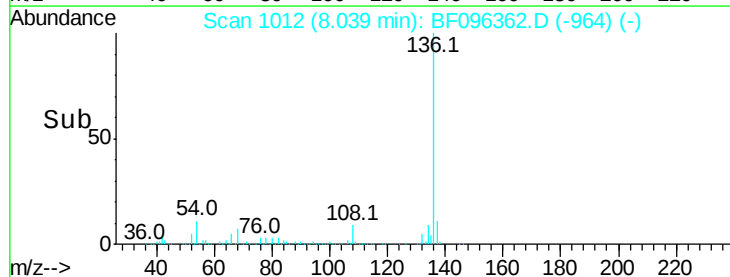
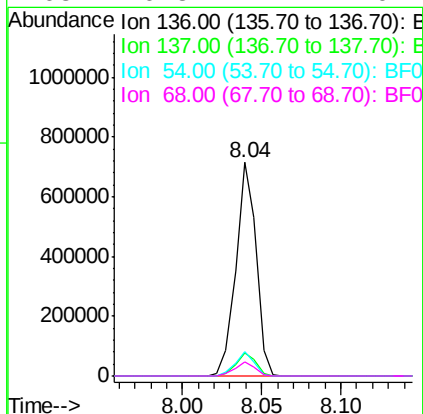
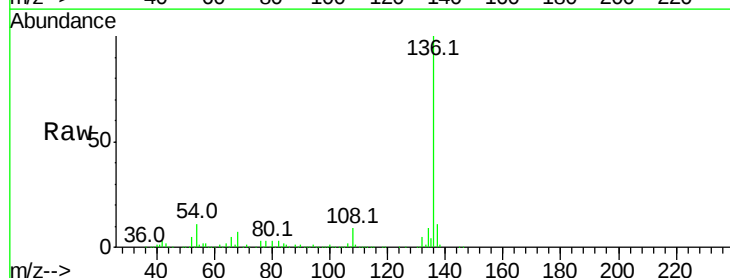
Instrument :
BNA_F
ClientSampleId :

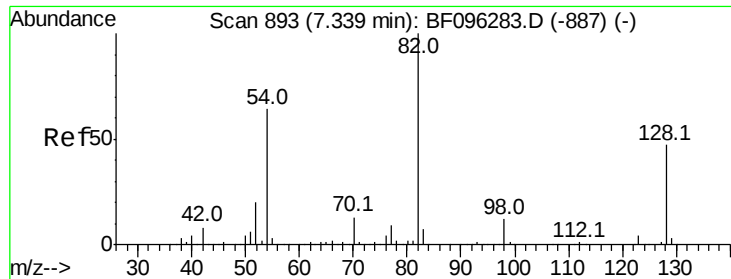
Tot Ion: 70 Resp: 110592
Ion Ratio Lower Upper
70 100
42 60.0 47.2 70.8
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.02 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion: 136 Resp: 629777
Ion Ratio Lower Upper
136 100
137 10.9 8.5 12.7
54 11.3 4.9 7.3#
68 6.8 4.1 6.1#

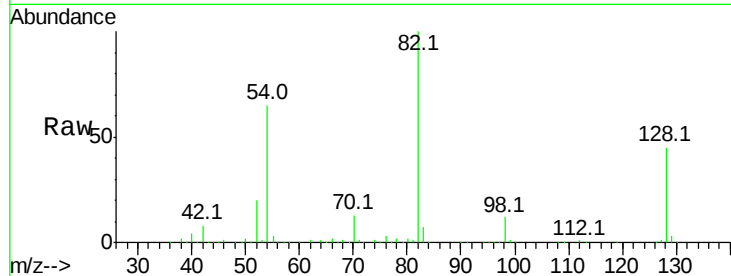




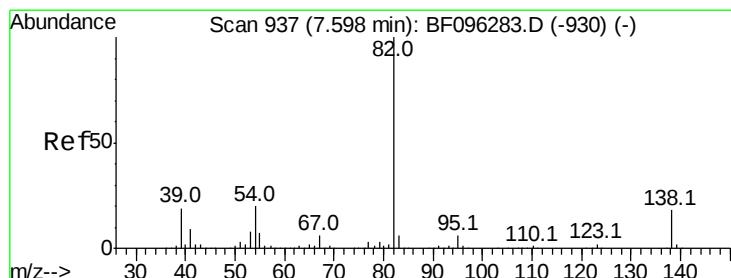
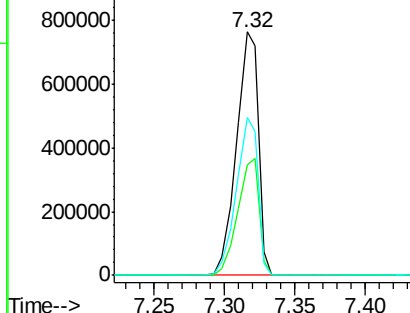
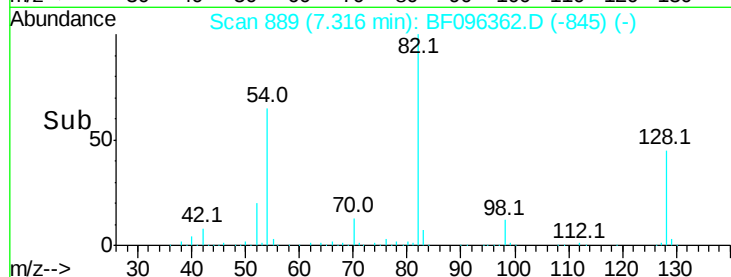
#23
Nitrobenzene-d5
Concen: 90.40 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.04 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 822375
Ion Ratio Lower Upper
82 100
128 45.4 34.0 51.0
54 65.0 42.2 63.2#

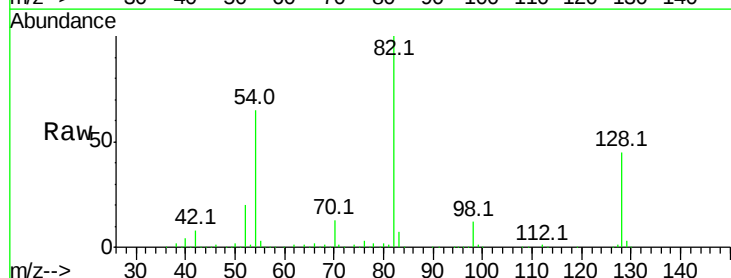


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

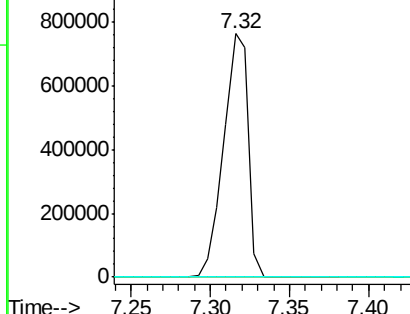
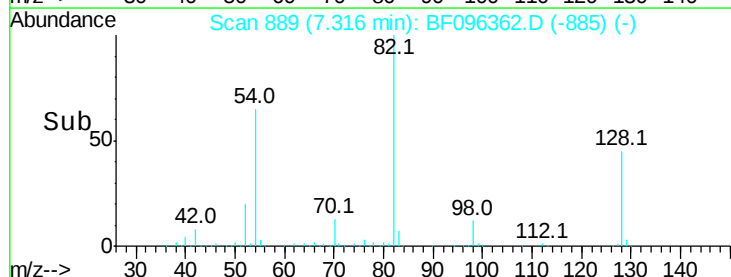


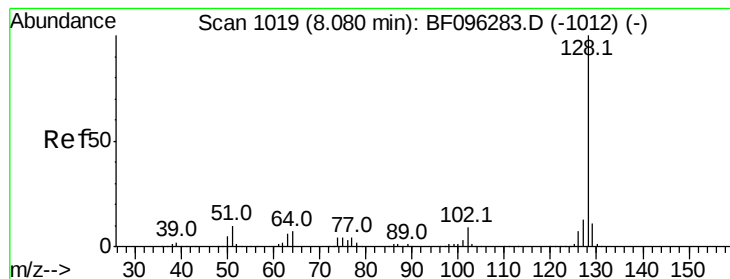
#25
Isophorone
Concen: 39.79 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.28 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion: 82 Resp: 822119
Ion Ratio Lower Upper
82 100
95 0.1 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





#31

Naphthalene

Concen: 2.25 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.02 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

Instrument :

BNA_F

ClientSampleId :

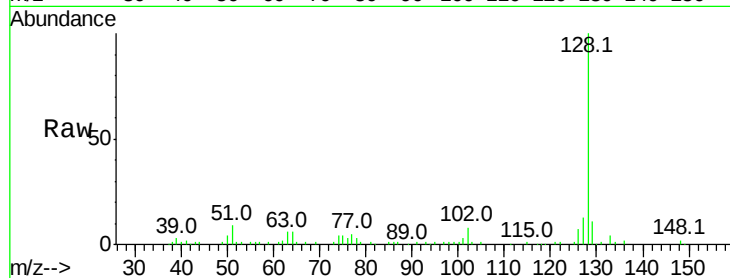
Tot Ion:128 Resp: 68159

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.6

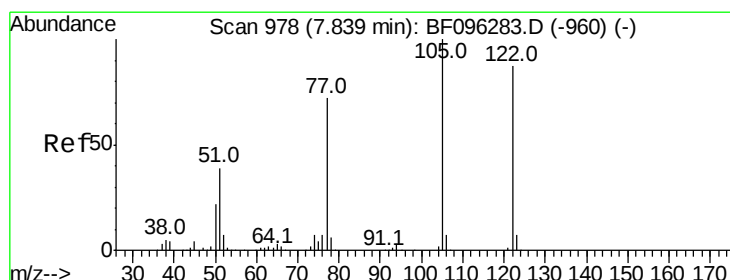
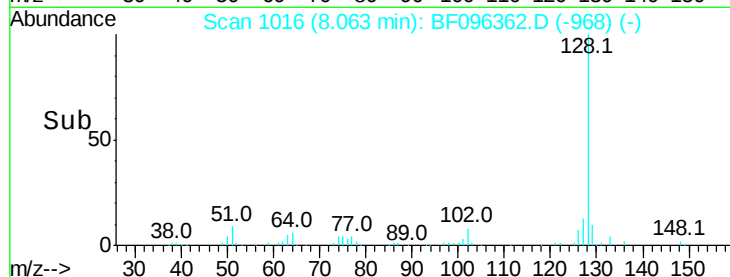
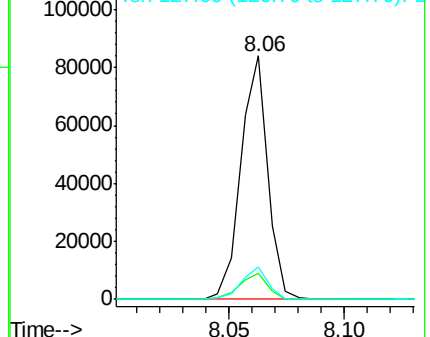
127 13.1 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 8.80 ng

RT: 7.89 min Scan# 986

Delta R.T. 0.00 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

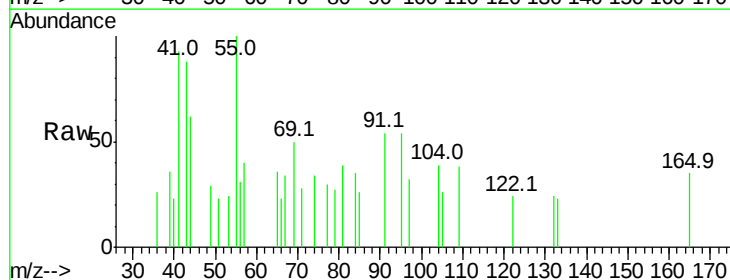
Tgt Ion:122 Resp: 116

Ion Ratio Lower Upper

122 100

105 105.8 103.3 143.3

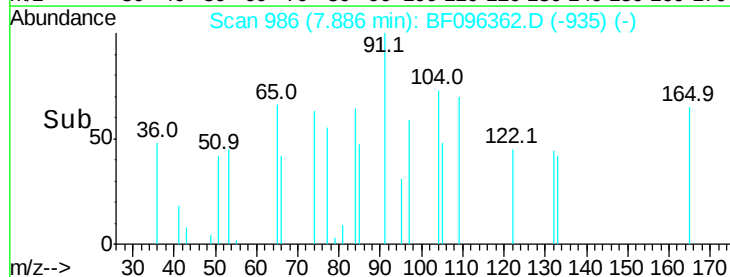
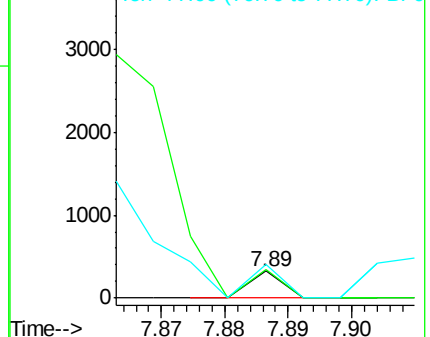
77 121.6 73.7 113.7#

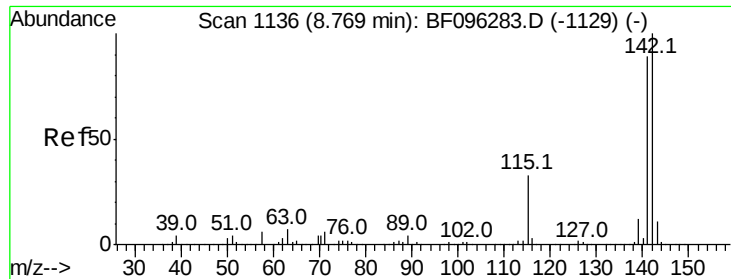


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

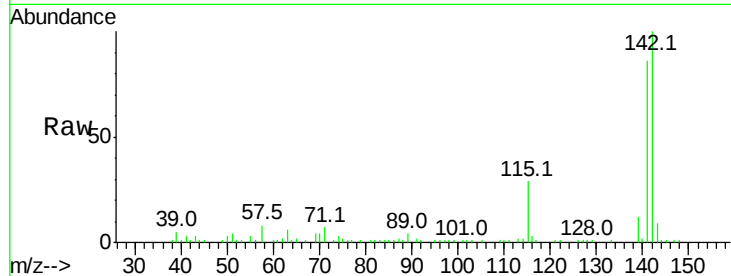




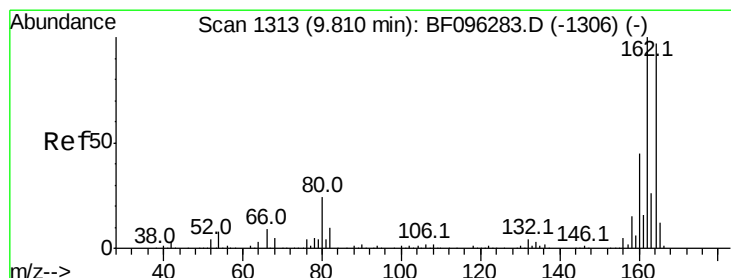
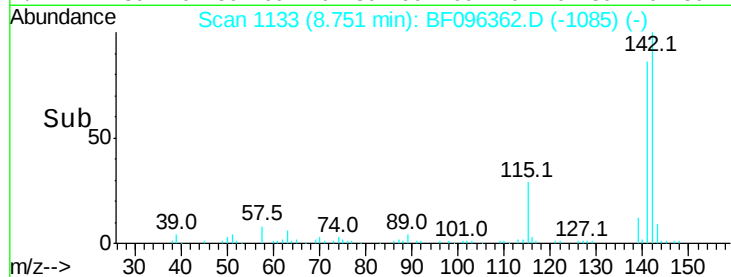
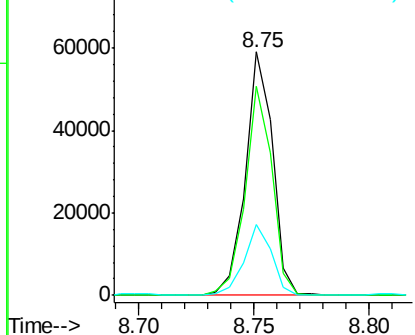
#37
 2-Methylnaphthalene
 Concen: 2.47 ng
 RT: 8.75 min Scan# 1133
 Delta R.T. -0.02 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:142 Resp: 48688
 Ion Ratio Lower Upper
 142 100
 141 86.0 71.3 106.9
 115 29.3 27.1 40.7

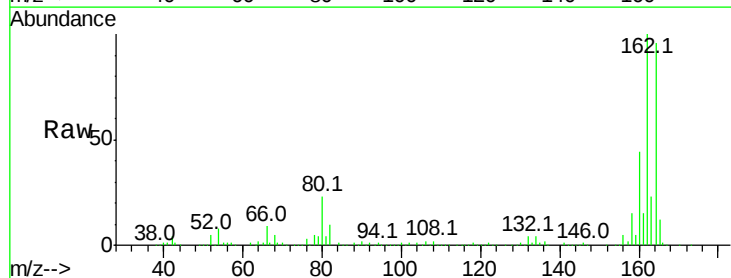


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

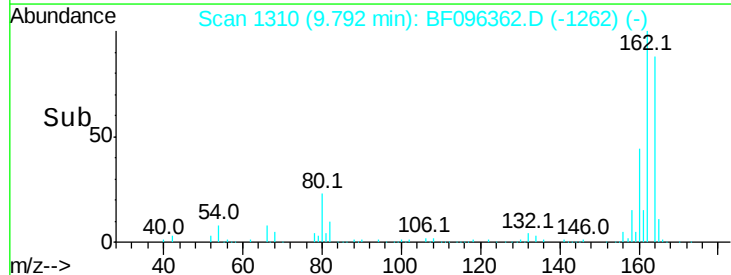
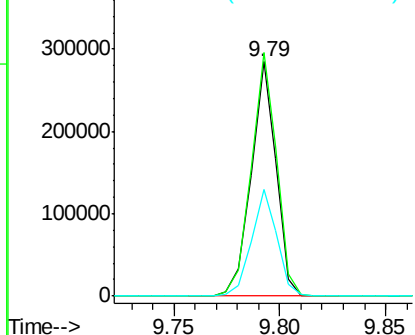


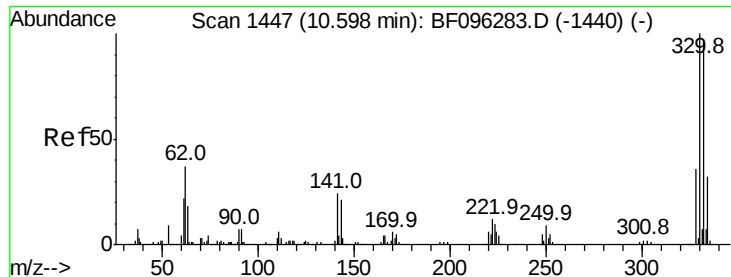
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.02 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Tgt Ion:164 Resp: 232564
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.6 123.8
 160 45.5 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

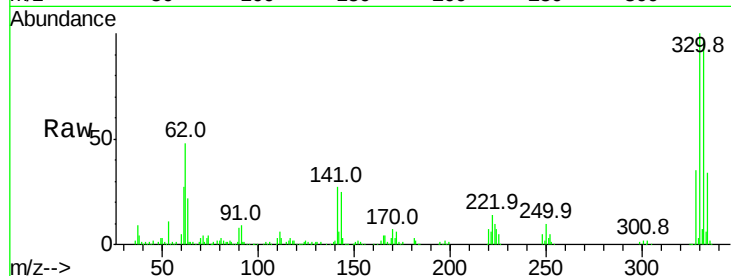




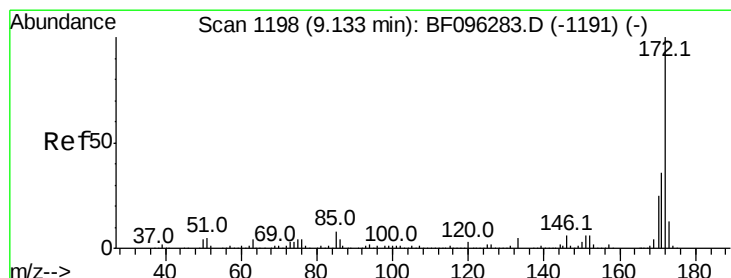
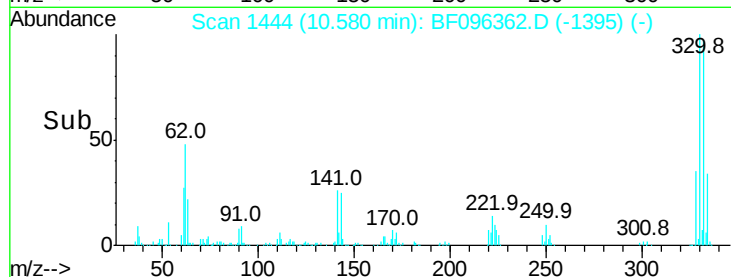
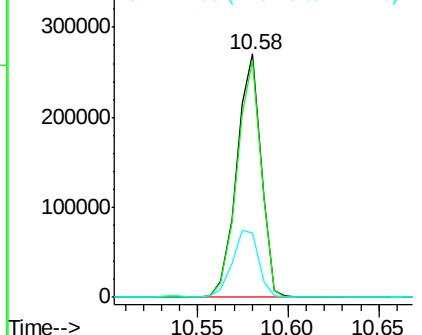
#41
 2,4,6-Tribromophenol
 Concen: 137.33 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. -0.01 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 251349
 Ion Ratio Lower Upper
 330 100
 332 96.8 76.6 115.0
 141 30.0 31.4 47.2#

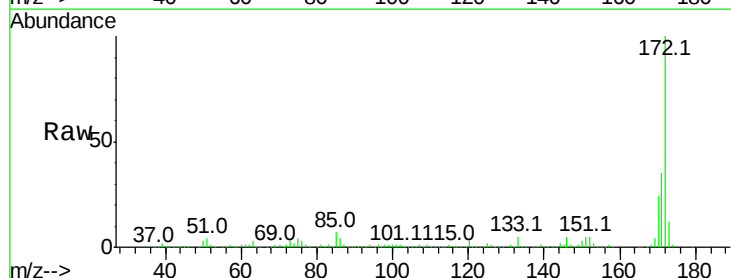


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

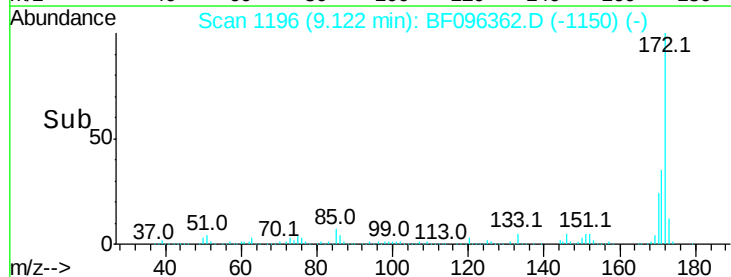
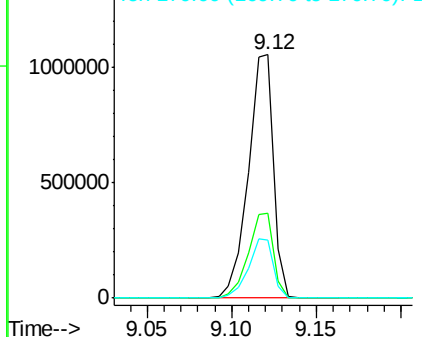


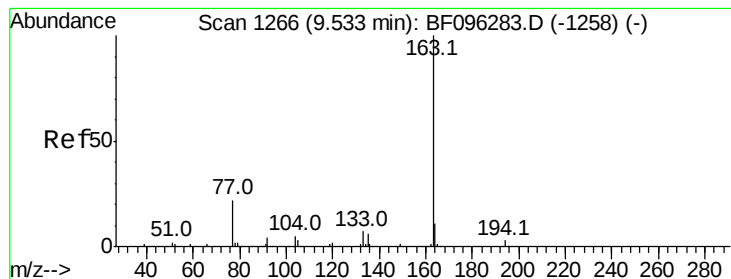
#44
 2-Fluorobiphenyl
 Concen: 86.88 ng
 RT: 9.12 min Scan# 1196
 Delta R.T. -0.03 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Tgt Ion:172 Resp: 1103228
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.6 44.4
 170 23.7 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: 14.03 ng

RT: 9.51 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

Instrument :

BNA_F

ClientSampleId :

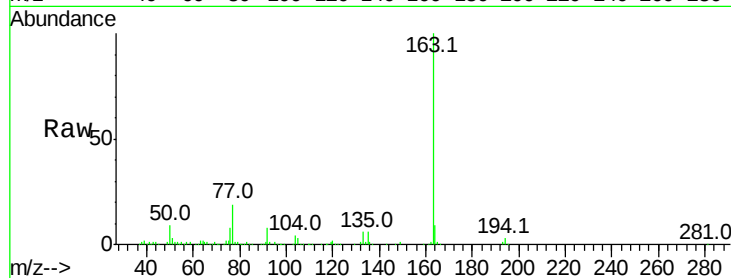
Tot Ion:163 Resp: 233512

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

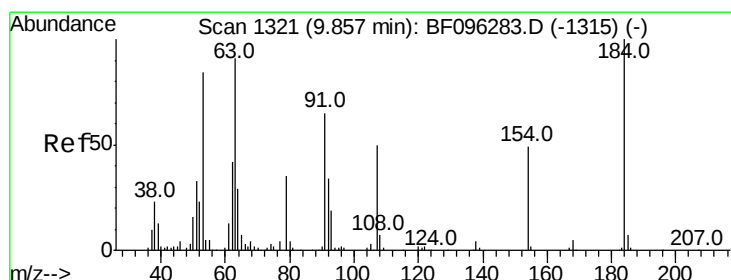
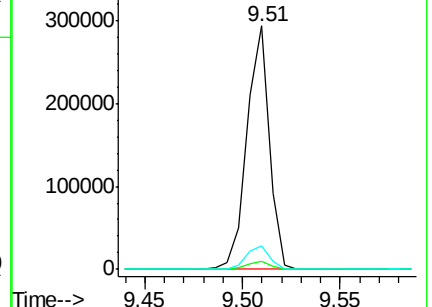
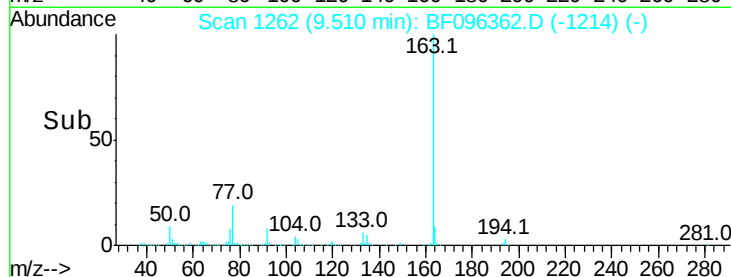
164 9.4 8.4 12.6



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



#53

2,4-Dinitrophenol

Concen: 7.64 ng

RT: 10.08 min Scan# 1359

Delta R.T. 0.21 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

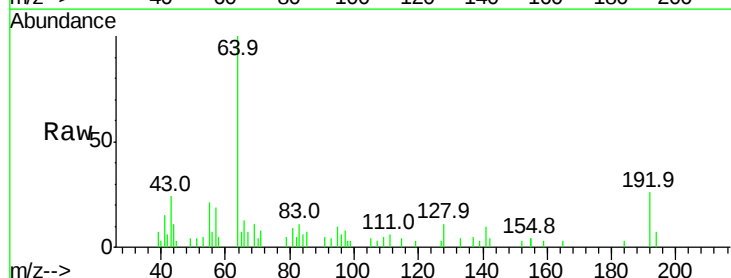
Tgt Ion:184 Resp: 113

Ion Ratio Lower Upper

184 100

63 0.0 62.7 94.1#

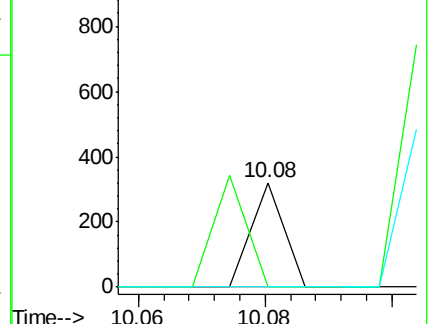
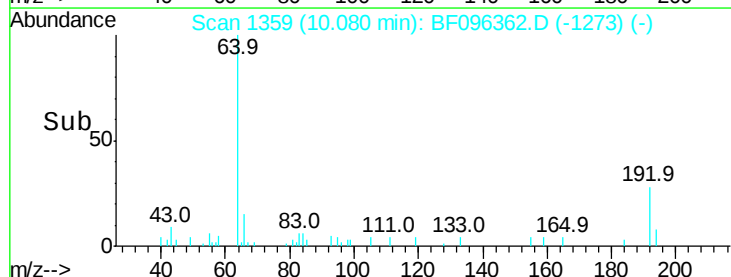
154 0.0 81.1 121.7#

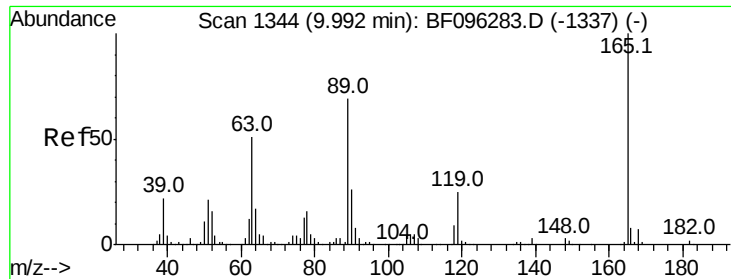


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

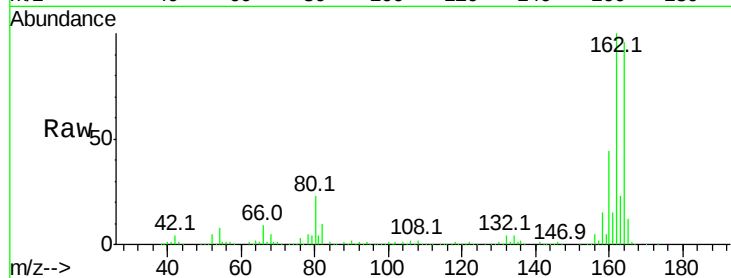




#56
 2,4-Dinitrotoluene
 Concen: 6.87 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.22 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	25.4	38.0#
89	1.4	46.4	69.6#
182	0.0	1.8	2.6#

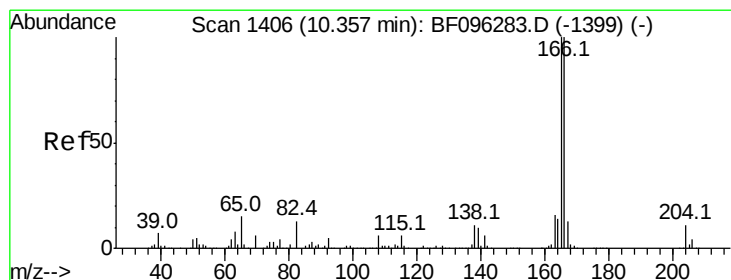
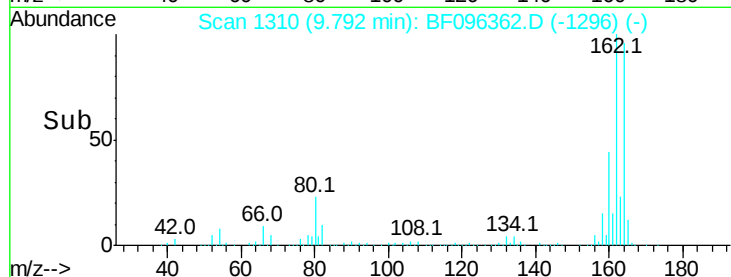
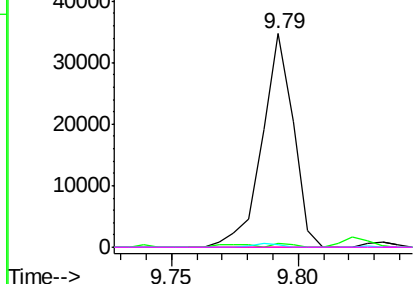


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

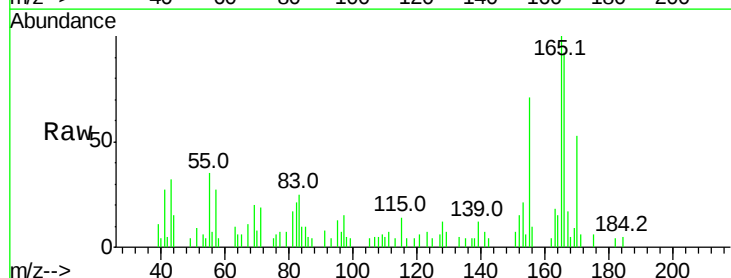
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
 Fluorene
 Concen: Below Cal
 RT: 10.34 min Scan# 1403
 Delta R.T. -0.03 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

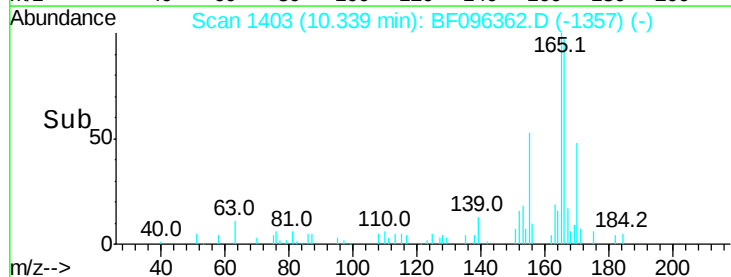
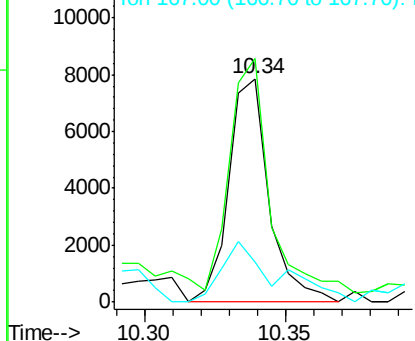
Tgt Ion	Ratio	Lower	Upper
166	100		
165	108.9	78.8	118.2
167	18.0	10.6	16.0#

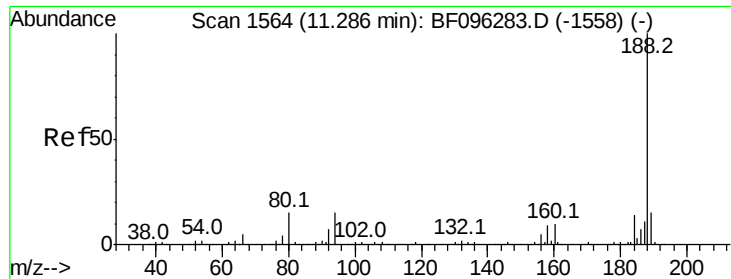


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

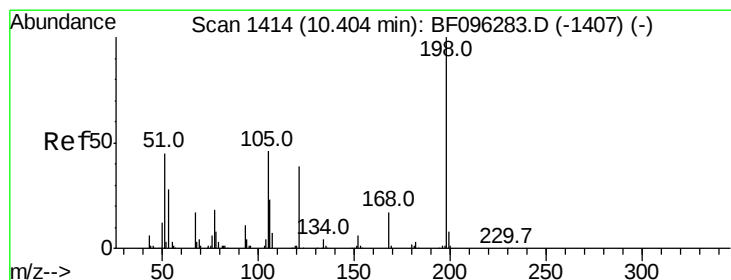
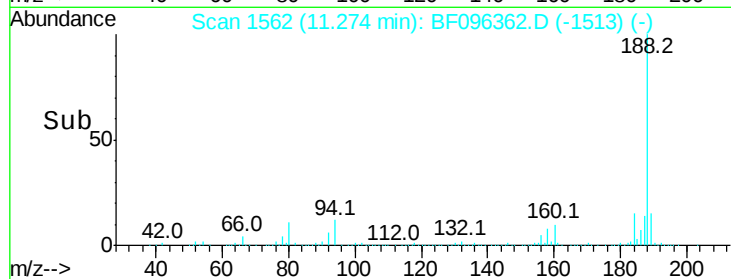
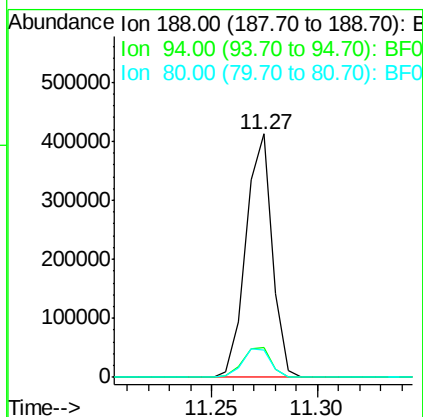
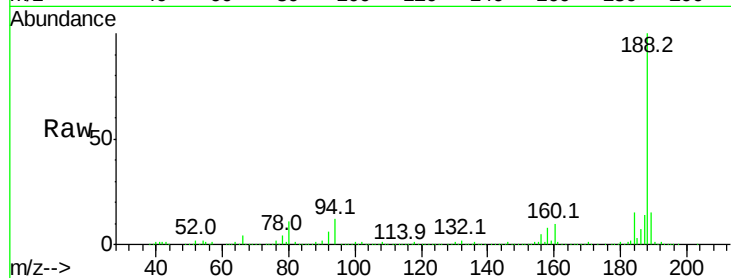




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

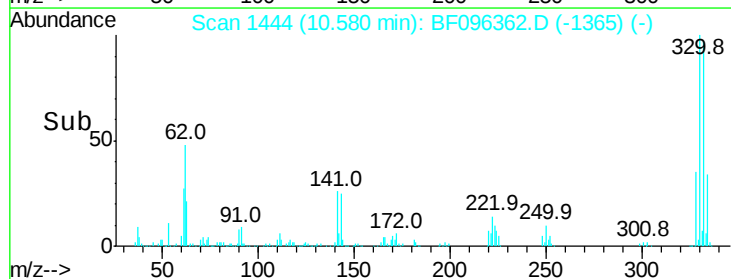
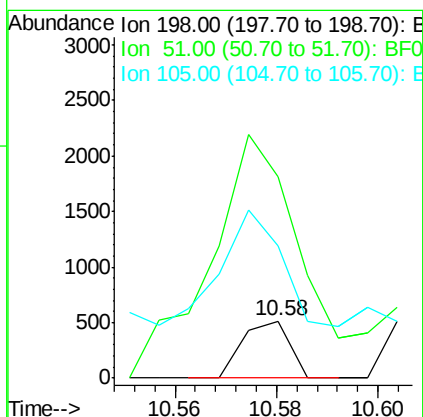
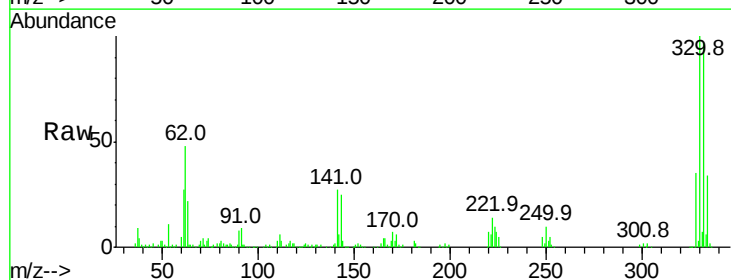
Instrument :
BNA_F
ClientSampled :

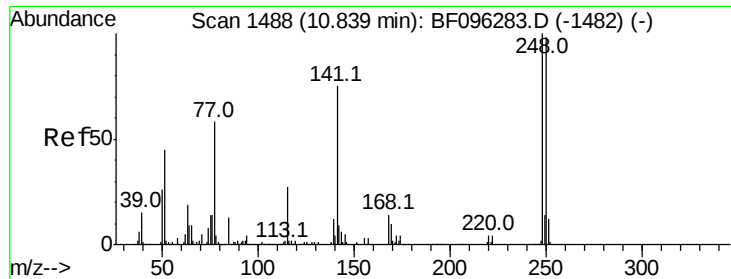
Tot Ion:188 Resp: 355098
Ion Ratio Lower Upper
188 100
94 12.3 9.4 14.2
80 11.3 10.2 15.2



#64
4,6-Dinitro-2-methylphenol
Concen: 8.90 ng
RT: 10.58 min Scan# 1444
Delta R.T. 0.17 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion:198 Resp: 334
Ion Ratio Lower Upper
198 100
51 352.4 53.2 93.2#
105 231.8 45.8 85.8#

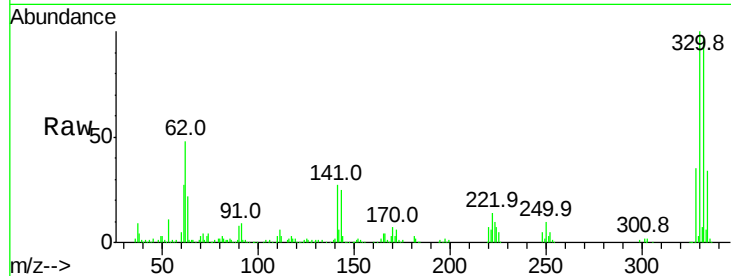




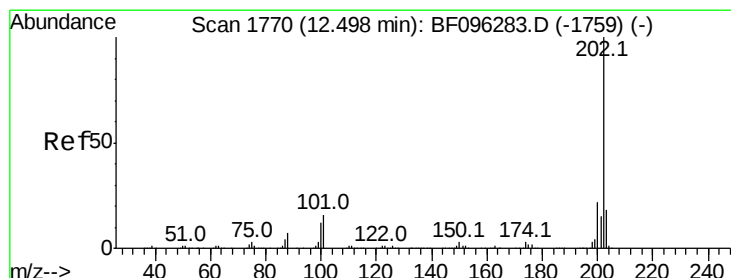
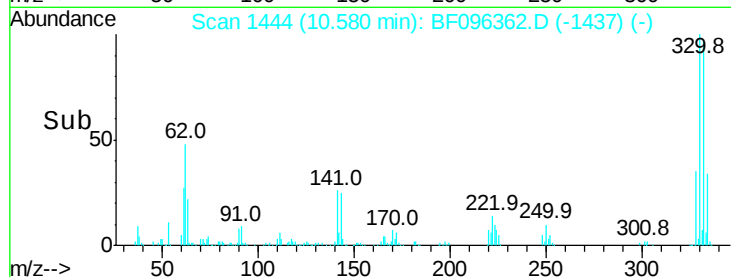
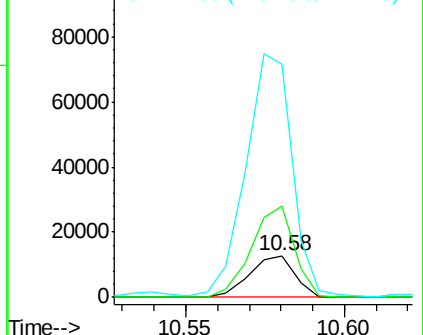
#66
 4-Bromophenyl-phenylether
 Concen: 3.46 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. -0.26 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 12649
 Ion Ratio Lower Upper
 248 100
 250 218.3 76.8 115.2#
 141 560.2 68.6 103.0#

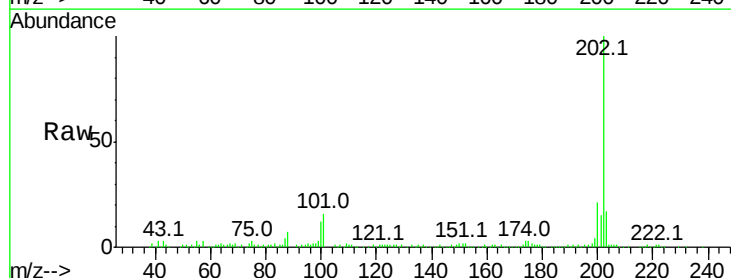


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

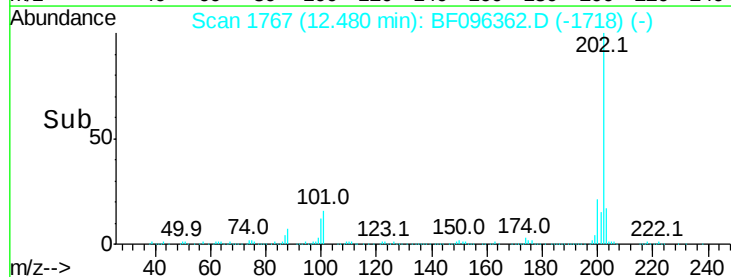
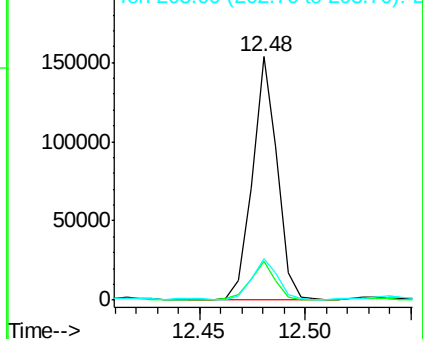


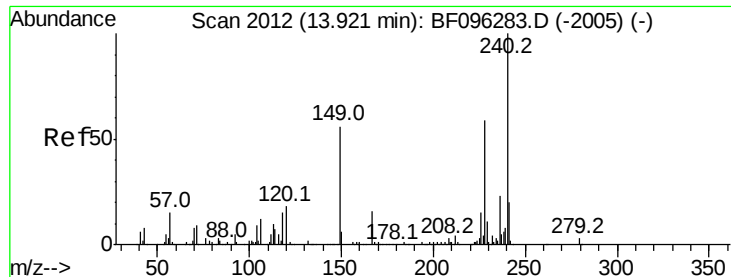
#74
 Fluoranthene
 Concen: 6.28 ng
 RT: 12.48 min Scan# 1767
 Delta R.T. -0.01 min
 Lab File: BF096362.D
 Acq: 1 Jul 2017 3:20

Tgt Ion:202 Resp: 123974
 Ion Ratio Lower Upper
 202 100
 101 15.9 0.0 33.2
 203 17.2 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: 13.90 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

Instrument :

BNA_F

ClientSampleId :

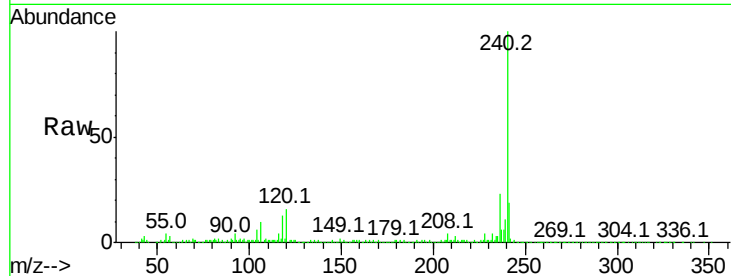
Tot Ion:240 Resp: 291786

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

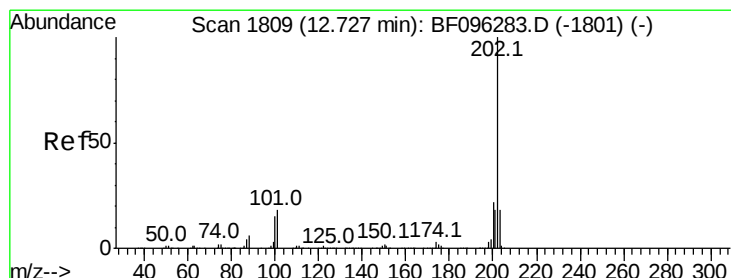
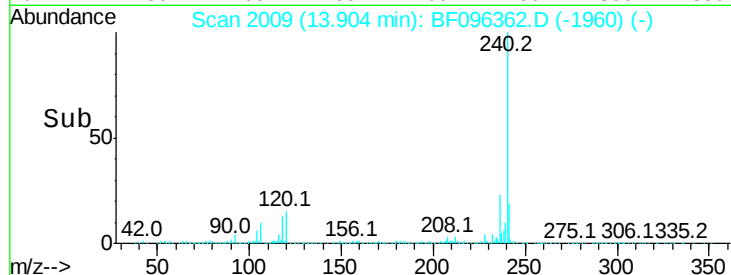
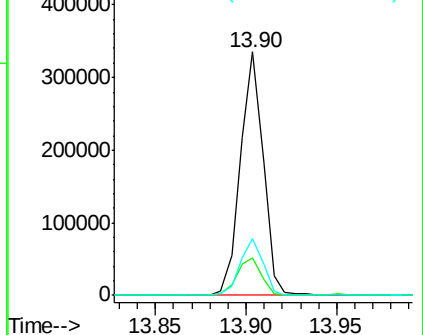
236 23.5 20.5 30.7



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: 5.23 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

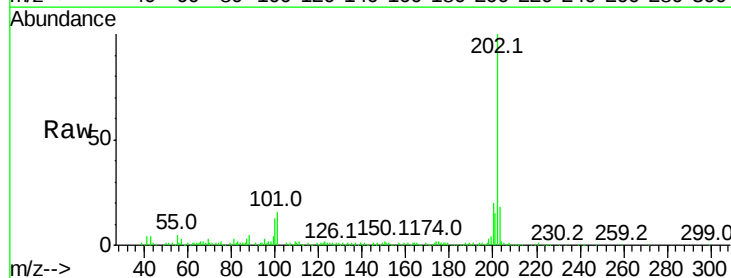
Tgt Ion:202 Resp: 125423

Ion Ratio Lower Upper

202 100

200 20.0 17.6 26.4

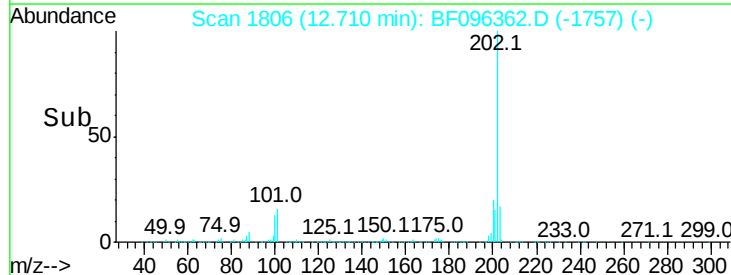
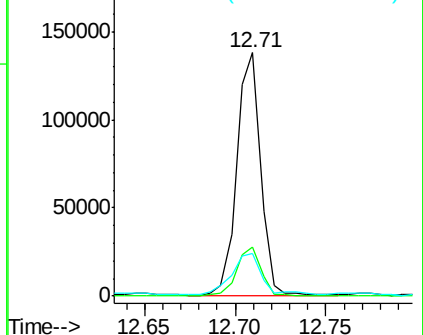
203 17.5 14.4 21.6

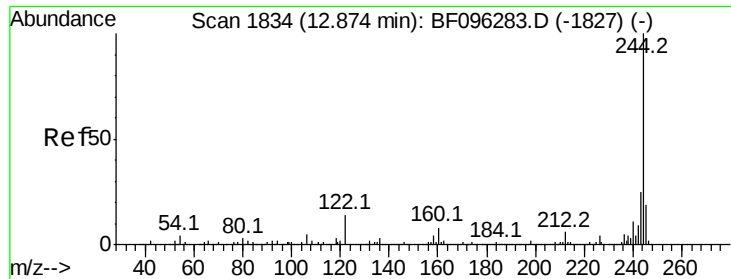


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 64.92 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

Instrument :

BNA_F

ClientSampleId :

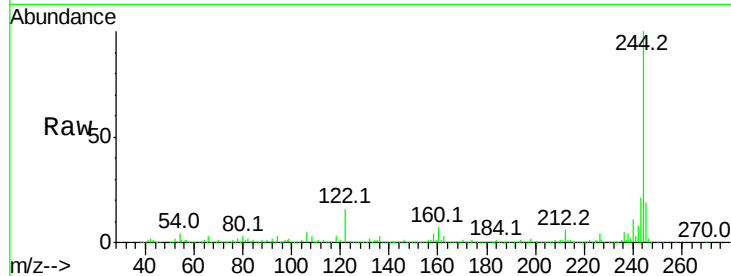
Tot Ion:244 Resp: 759149

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

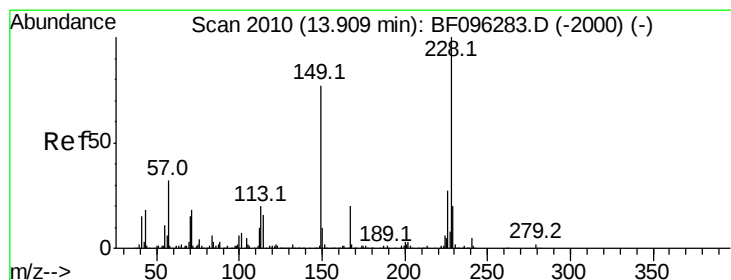
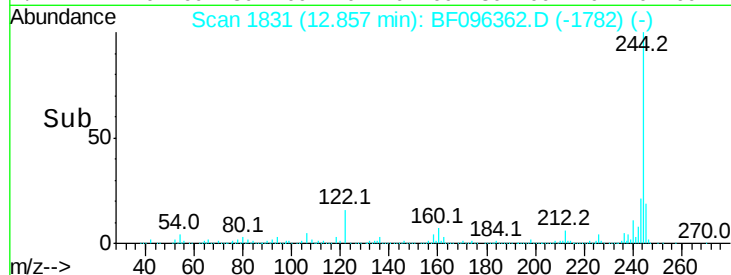
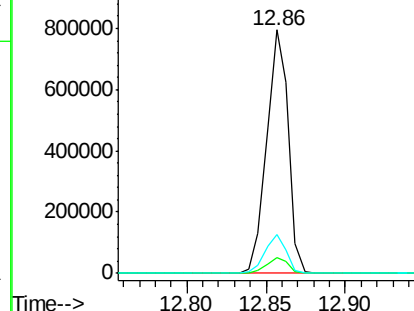
122 15.9 10.3 15.5#



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: 2.93 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF096362.D

Acq: 1 Jul 2017 3:20

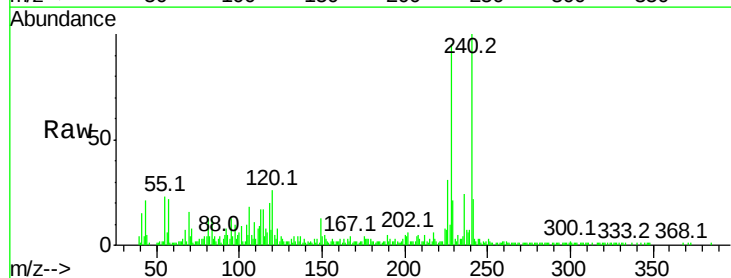
Tgt Ion:228 Resp: 52128

Ion Ratio Lower Upper

228 100

226 32.9 22.6 33.8

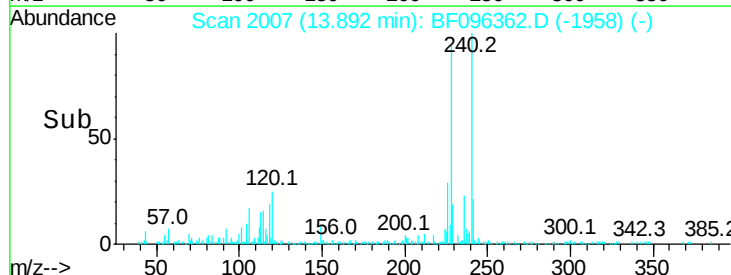
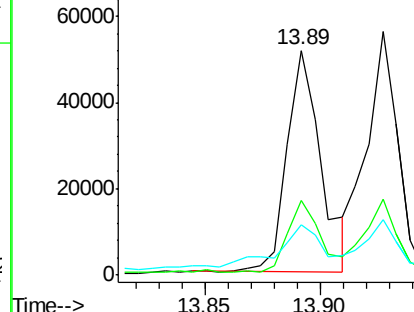
229 22.3 16.3 24.5

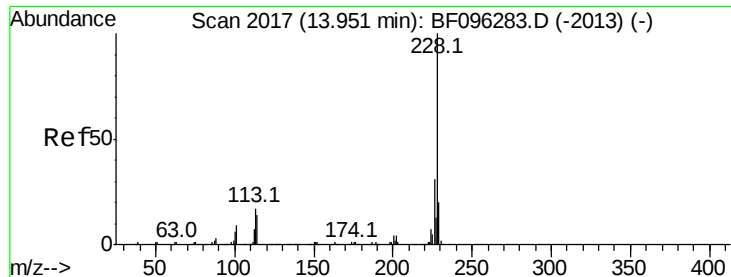


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

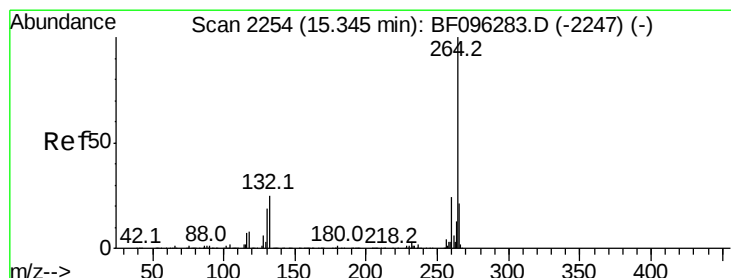
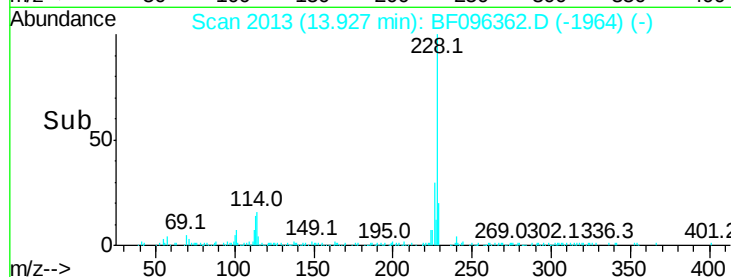
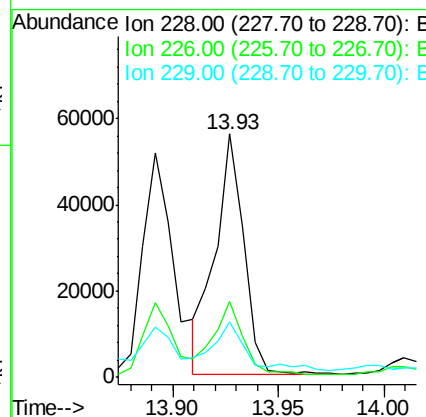
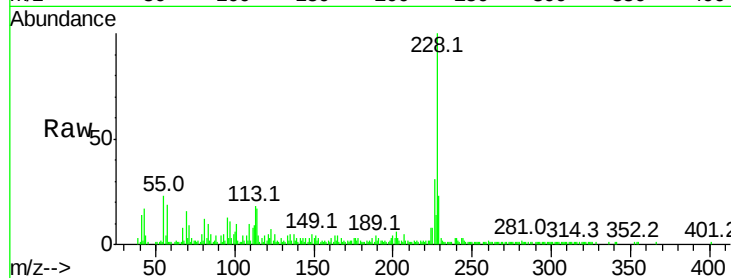




#82
Chrysene
Concen: 2.85 ng
RT: 13.93 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

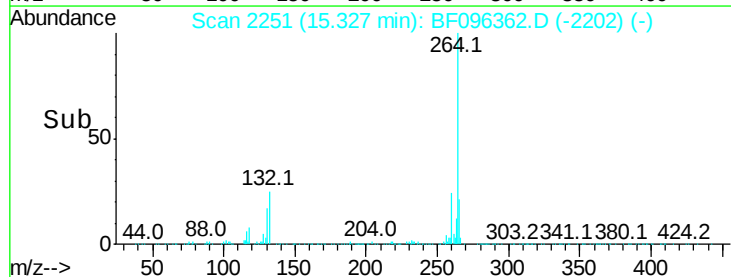
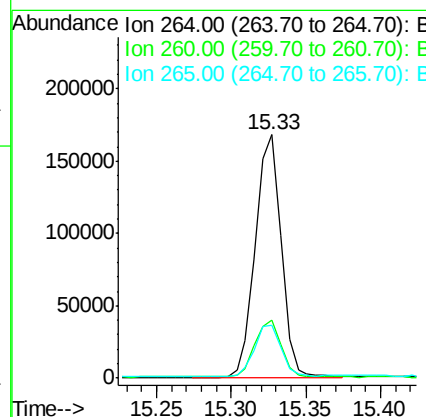
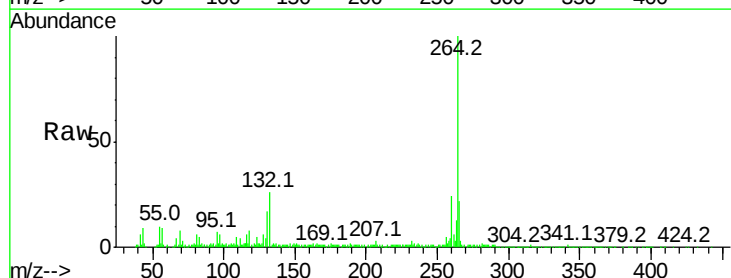
Instrument :
BNA_F
ClientSampleId :

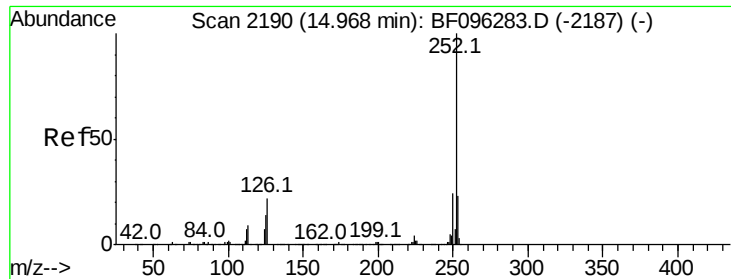
Tot Ion:228 Resp: 52368
Ion Ratio Lower Upper
228 100
226 31.4 24.9 37.3
229 22.8 15.8 23.6



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.01 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion:264 Resp: 199604
Ion Ratio Lower Upper
264 100
260 23.7 19.5 29.3
265 21.7 17.2 25.8

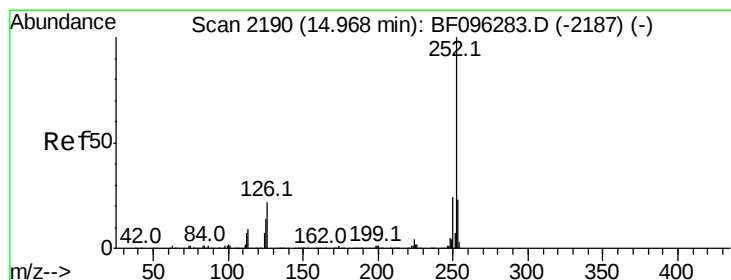
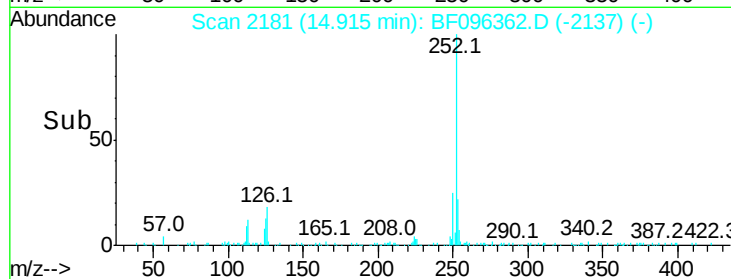
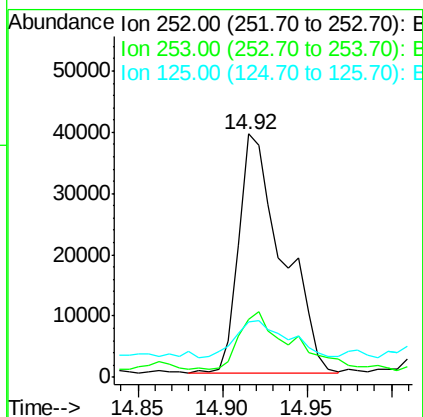
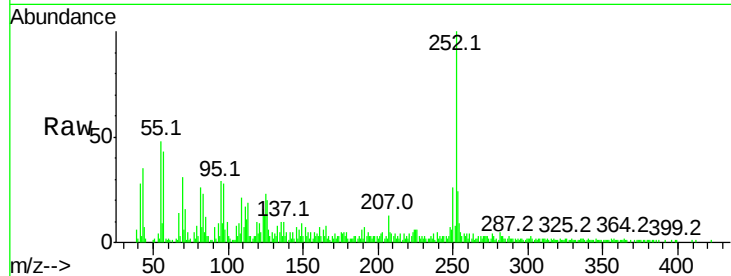




#87
Benzo(b)fluoranthene
Concen: 5.34 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

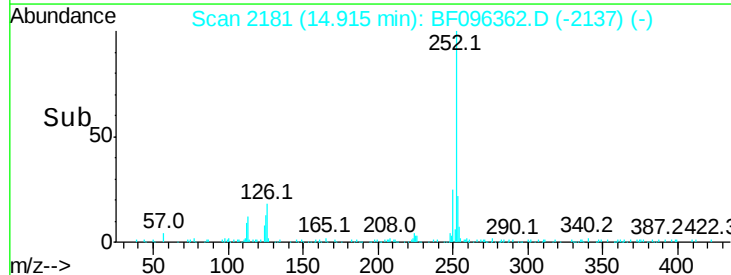
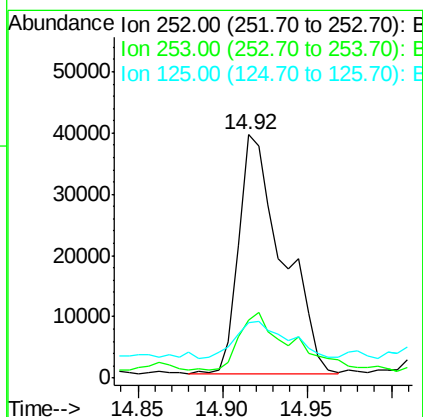
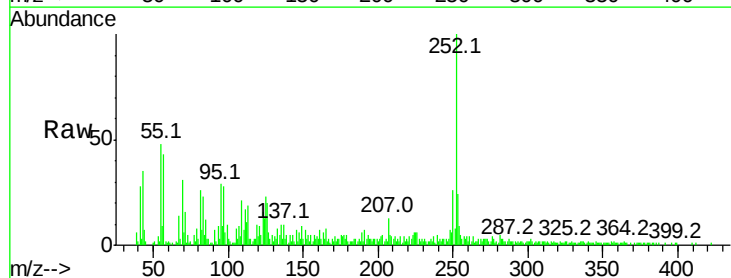
Instrument :
BNA_F
ClientSampled :

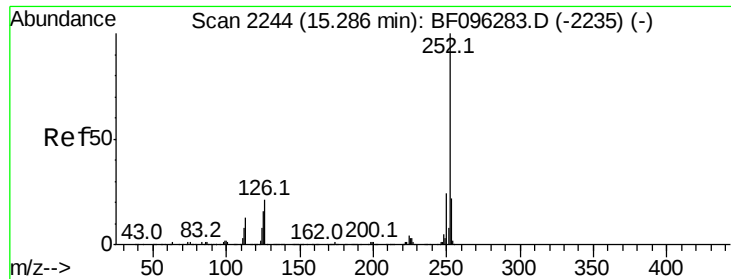
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	22.9	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 5.85 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	22.9	13.1	19.7

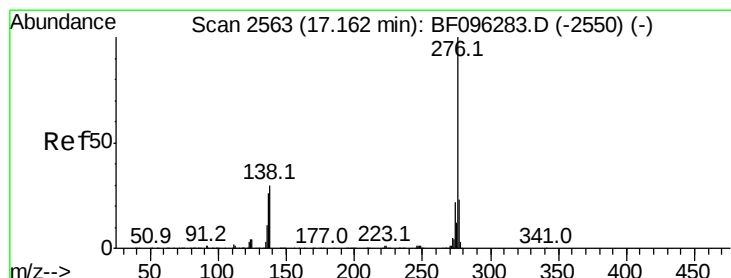
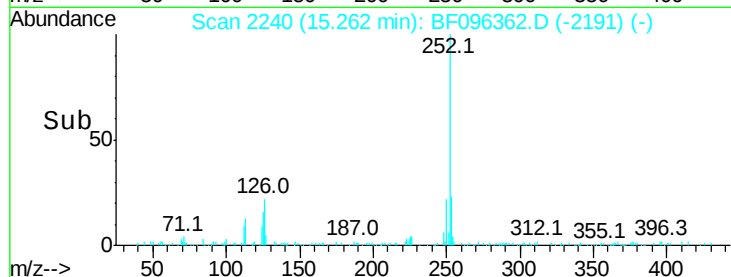
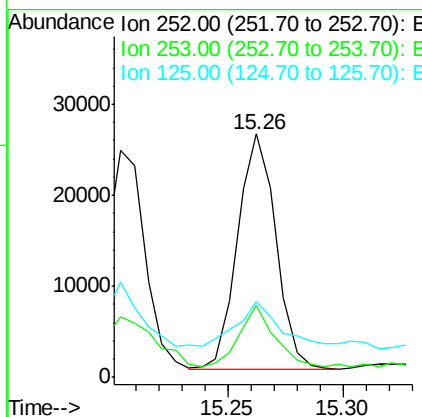
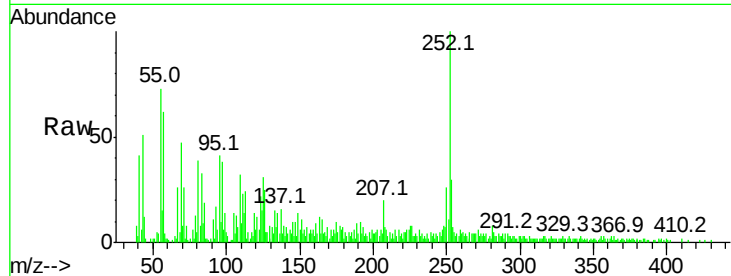




#89
Benzo(a)pyrene
Concen: 2.60 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 30101
Ion Ratio Lower Upper
252 100
253 29.7 17.5 26.3#
125 31.2 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 2.39 ng
RT: 17.12 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BF096362.D
Acq: 1 Jul 2017 3:20

Tgt Ion:276 Resp: 22560
Ion Ratio Lower Upper
276 100
277 27.6 18.6 28.0
138 40.6 25.4 38.0#

