

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096363.D
 Acq On : 1 Jul 2017 3:48
 Operator : SJ/MA
 Sample : I3930-12
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 01 06:26:36 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	147899	20.00	ng	-0.02
21) Naphthalene-d8	8.04	136	562784	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	205700	20.00	ng	-0.02
63) Phenanthrene-d10	11.27	188	328296	20.00	ng	-0.01
75) Chrysene-d12	13.90	240	277245	20.00	ng	-0.01
86) Perylene-d12	15.33	264	193073	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	879640	85.69	ng	0.00
7) Phenol-d6	6.39	99	1052419	84.66	ng	0.00
23) Nitrobenzene-d5	7.32	82	575060	70.74	ng	-0.04
41) 2,4,6-Tribromophenol	10.58	330	184992	114.27	ng	-0.01
44) 2-Fluorobiphenyl	9.12	172	801457	71.35	ng	-0.03
78) Terphenyl-d14	12.86	244	620808	55.87	ng	-0.01

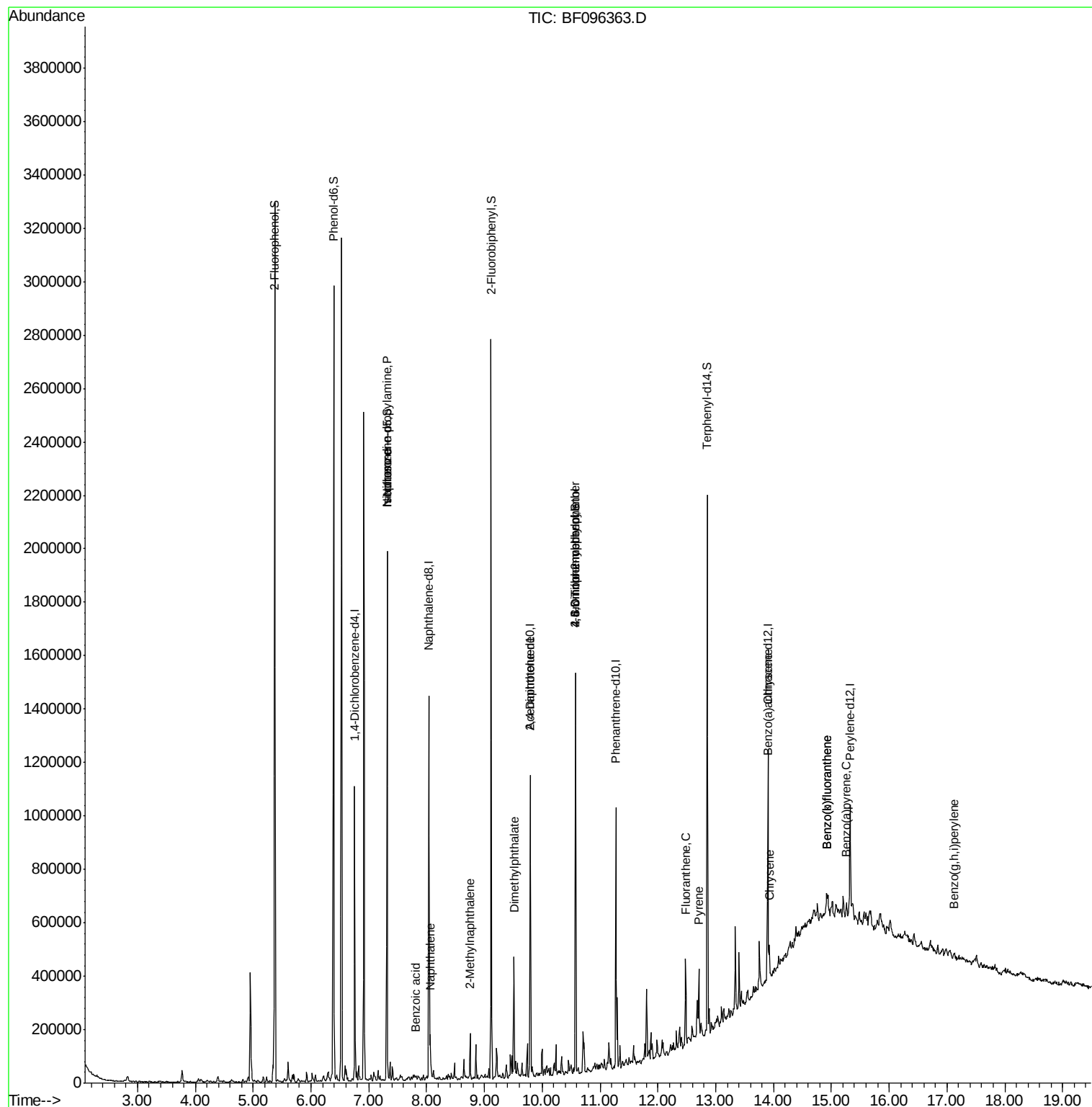
Target Compounds				Qvalue			
9) Benzaldehyde	6.30	77	4444	Below Cal	#	81	
19) n-Nitroso-di-n-propylamine	7.32	70	75908	10.19	ng	#	88
25) Isophorone	7.32	82	574920	31.14	ng	#	67
31) Naphthalene	8.06	128	59385	2.19	ng		99
32) Benzoic acid	7.82	122	393	8.84	ng	#	51
37) 2-Methylnaphthalene	8.75	142	41991	2.38	ng		97
49) Dimethylphthalate	9.51	163	159869	10.86	ng		99
56) 2,4-Dinitrotoluene	9.79	165	26830	6.95	ng	#	34
57) Fluorene	10.34	166	7208	Below Cal	#	92	
60) 4-Chlorophenyl-phenylether	10.06	204	254	Below Cal	#	36	
64) 4,6-Dinitro-2-methylphenol	10.58	198	271	8.88	ng	#	1
66) 4-Bromophenyl-phenylether	10.58	248	9745	2.88	ng	#	1
70) Phenanthrene	11.30	178	101010	Below Cal		99	
74) Fluoranthene	12.48	202	106791	5.86	ng		96
77) Pyrene	12.71	202	105774	4.64	ng		97
80) Benzo(a)anthracene	13.89	228	47544	2.81	ng	#	90
82) Chrysene	13.93	228	47948	2.74	ng	#	95
87) Benzo(b)fluoranthene	14.92	252	60467	4.77	ng	#	70
88) Benzo(k)fluoranthene	14.92	252	60467	5.22	ng	#	75
89) Benzo(a)pyrene	15.26	252	26625	2.38	ng	#	72
91) Benzo(g,h,i)perylene	17.12	276	19925	2.19	ng	#	91

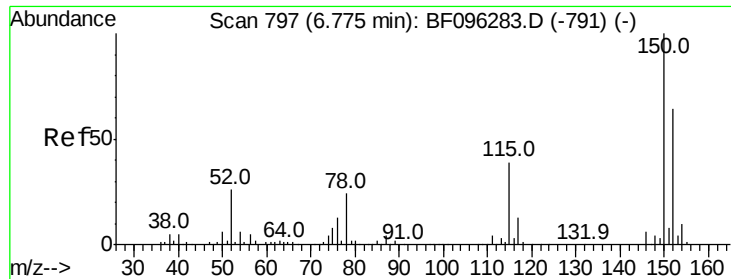
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

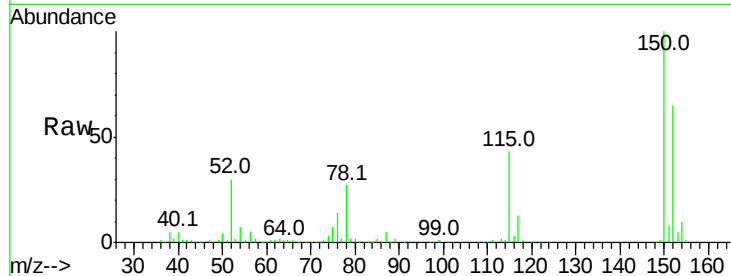
Tot Ion:152 Resp: 147899

Ion Ratio Lower Upper

152 100

150 155.0 126.2 189.2

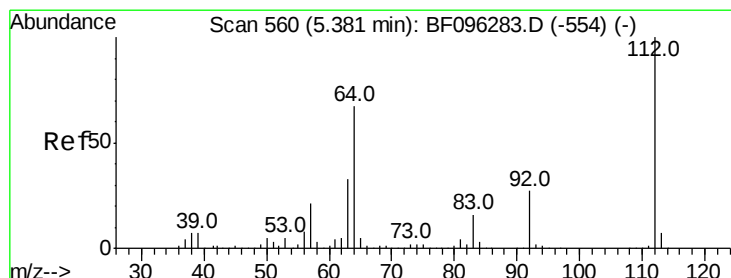
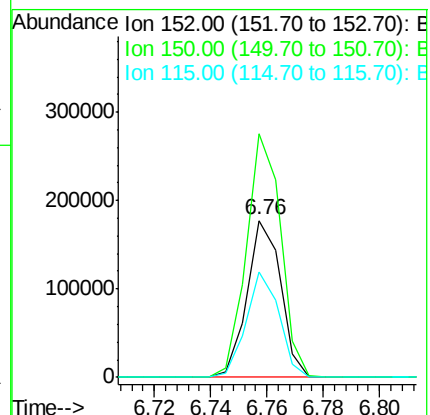
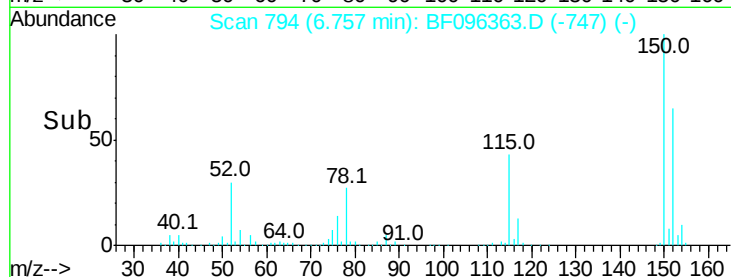
115 66.9 52.2 78.2



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: 85.69 ng

RT: 5.37 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

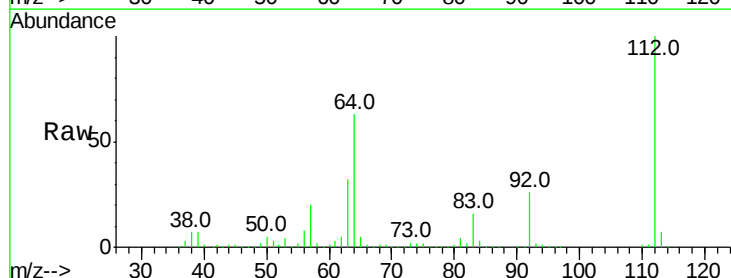
Tgt Ion:112 Resp: 879640

Ion Ratio Lower Upper

112 100

64 63.4 46.0 69.0

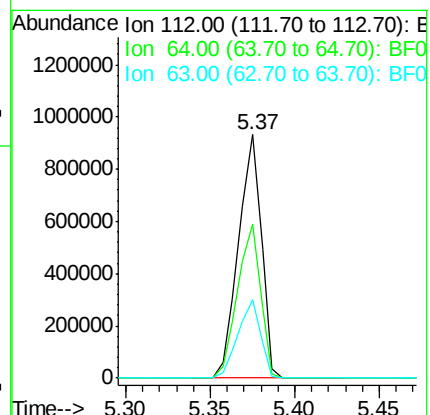
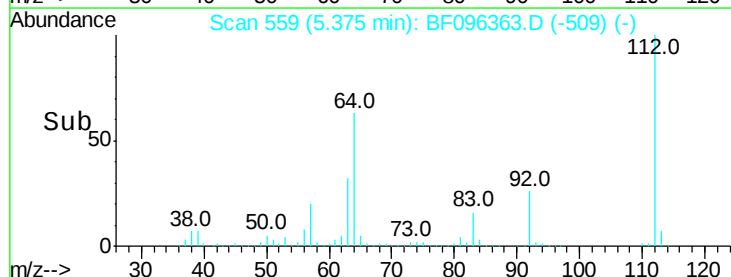
63 32.0 23.4 35.0

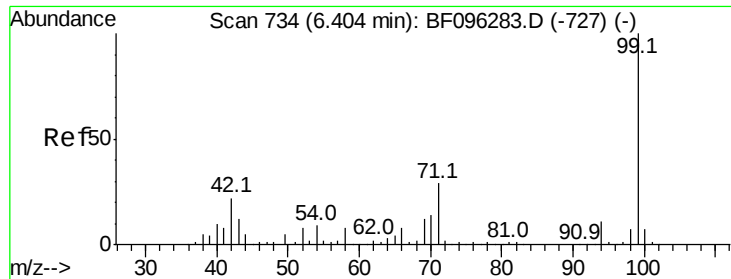


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 84.66 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.00 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

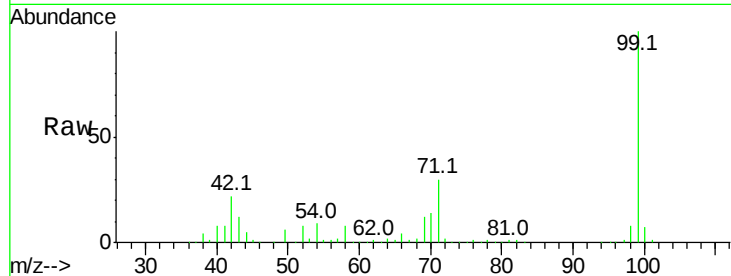
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1052419

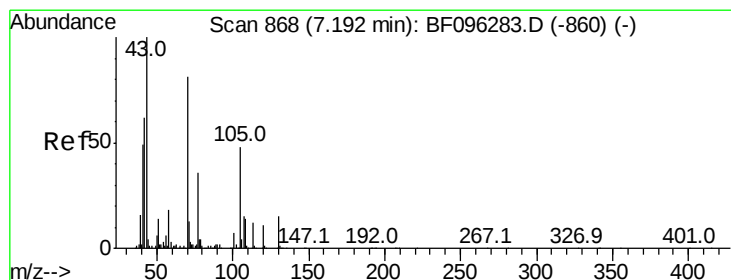
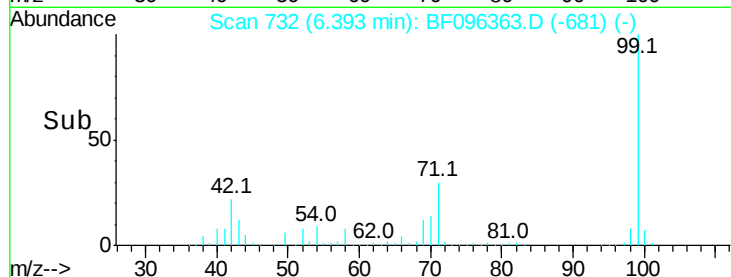
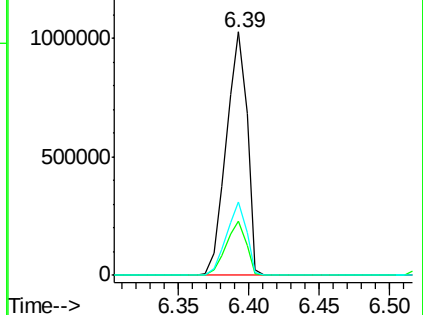
Ion	Ratio	Lower	Upper
99	100		
42	22.2	13.5	20.3#
71	30.4	24.5	36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 10.19 ng

RT: 7.32 min Scan# 889

Delta R.T. 0.14 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Tgt Ion: 70 Resp: 75908

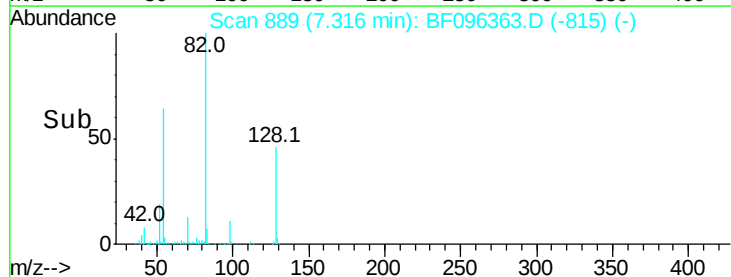
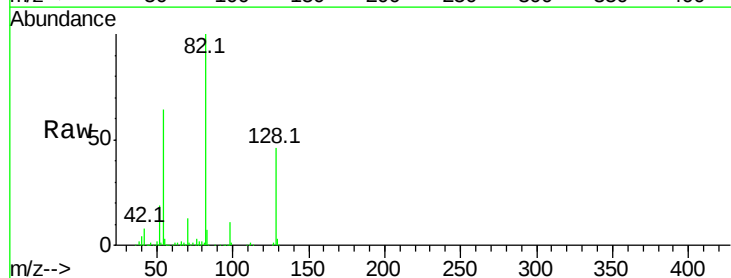
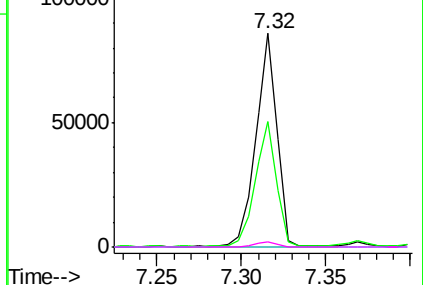
Ion	Ratio	Lower	Upper
70	100		
42	58.5	47.2	70.8
101	0.0	7.2	10.8#
130	2.2	15.9	23.9#

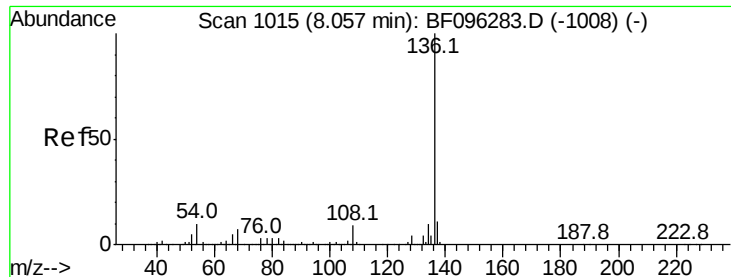
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 1012

Delta R.T. -0.02 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 562784

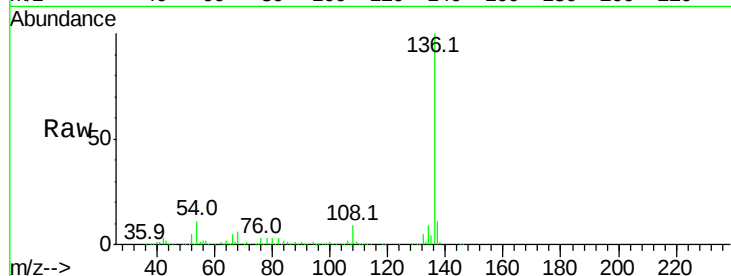
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 10.7 4.9 7.3#

68 6.3 4.1 6.1#

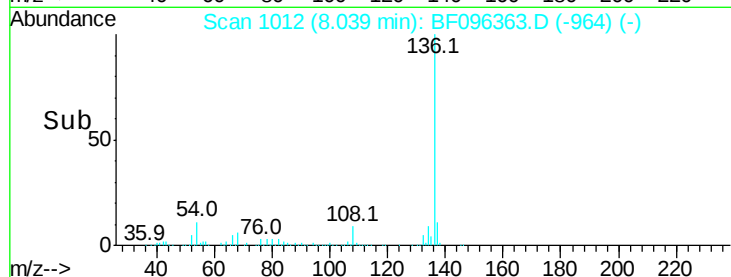


Abundance Ion 136.00 (135.70 to 136.70): E

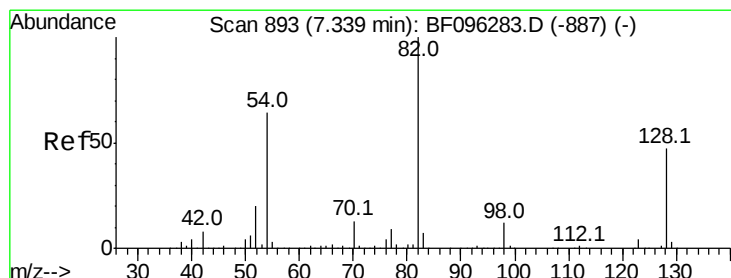
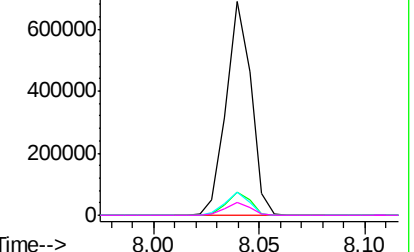
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 70.74 ng

RT: 7.32 min Scan# 889

Delta R.T. -0.04 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

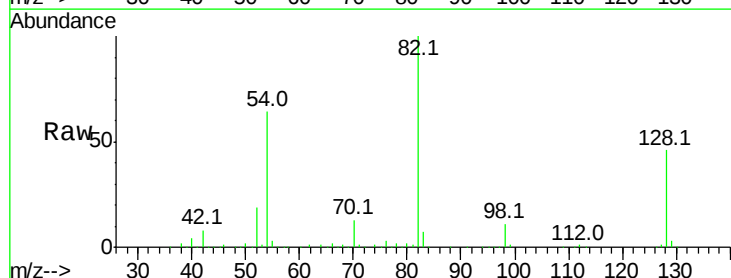
Tgt Ion: 82 Resp: 575060

Ion Ratio Lower Upper

82 100

128 46.1 34.0 51.0

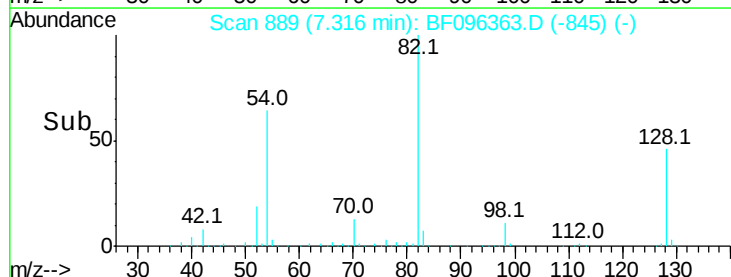
54 63.8 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0

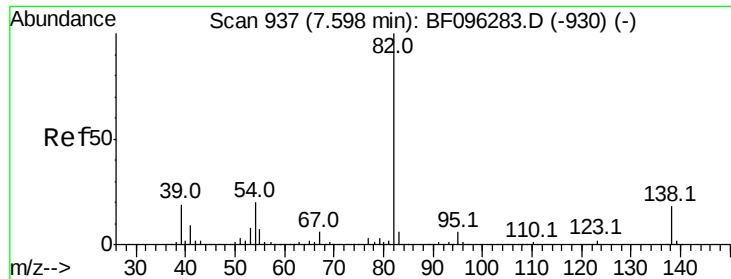
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 31.14 ng

RT: 7.32 min Scan# 889

Delta R.T. -0.28 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

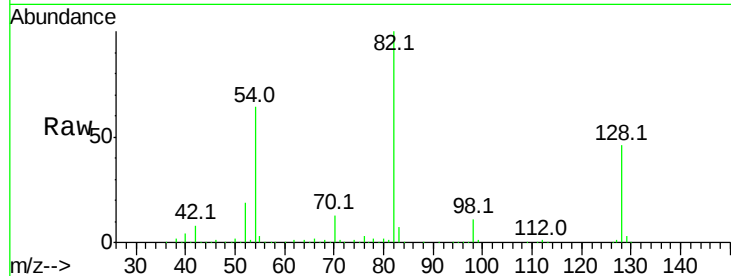
Tot Ion: 82 Resp: 574920

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

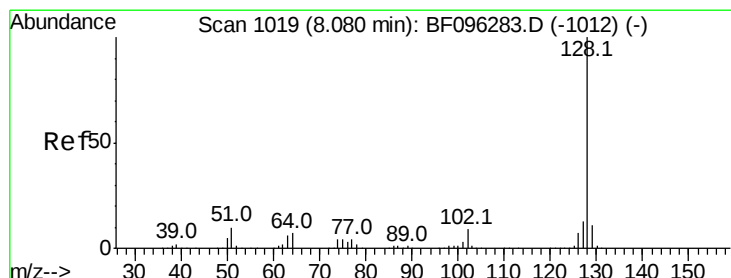
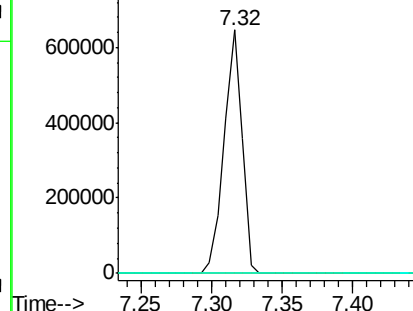
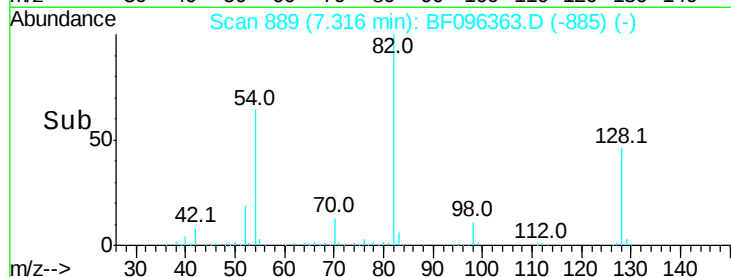
138 0.0 13.1 19.7#



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: 2.19 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.02 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

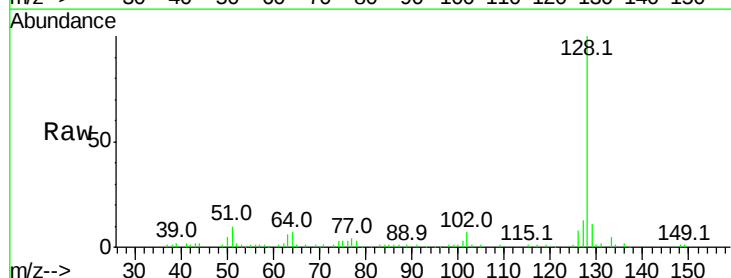
Tgt Ion: 128 Resp: 59385

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

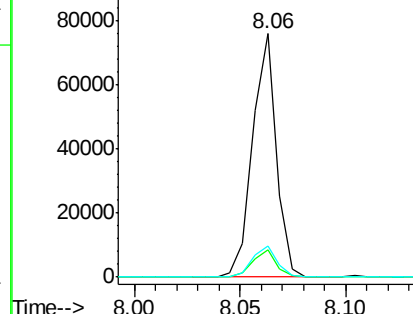
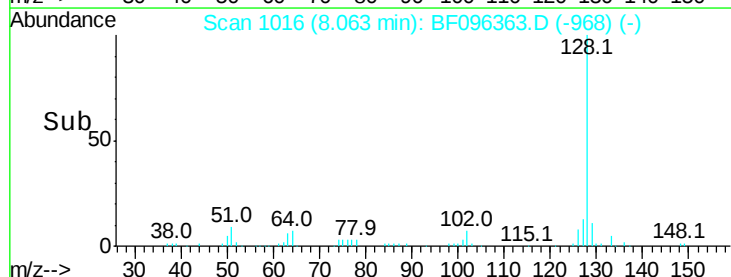
127 12.9 10.8 16.2

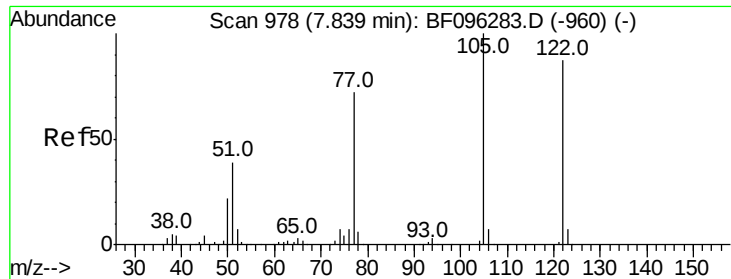


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

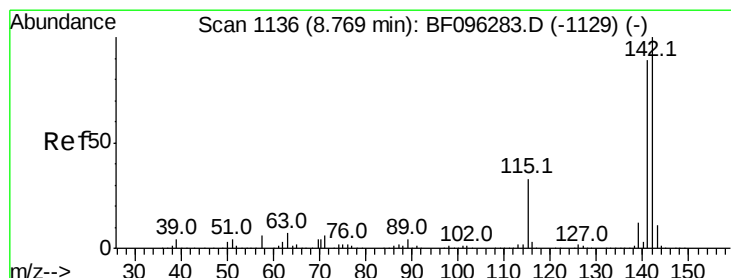
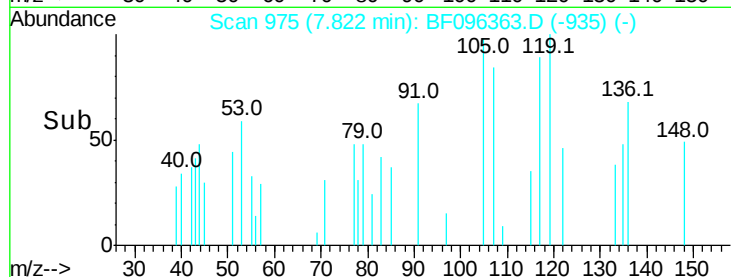
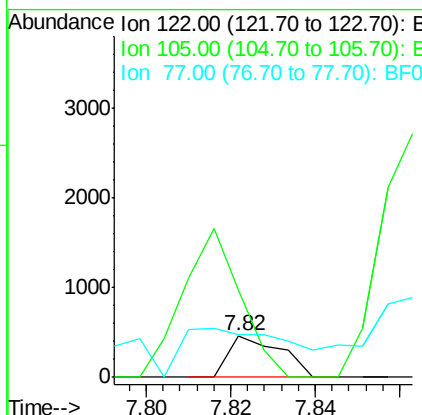
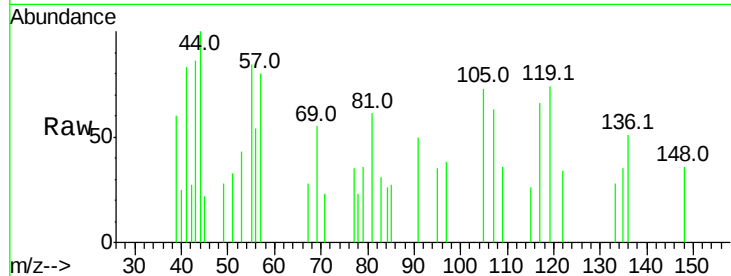




#32
Benzoic acid
Concen: 8.84 ng
RT: 7.82 min Scan# 975
Delta R.T. -0.06 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

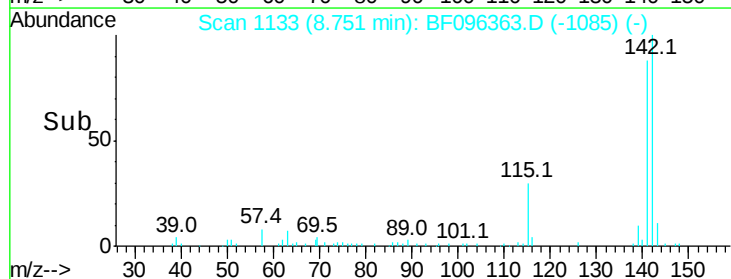
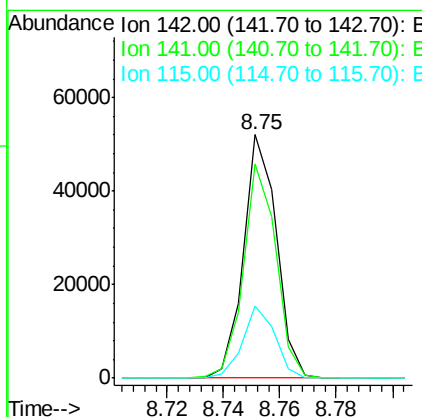
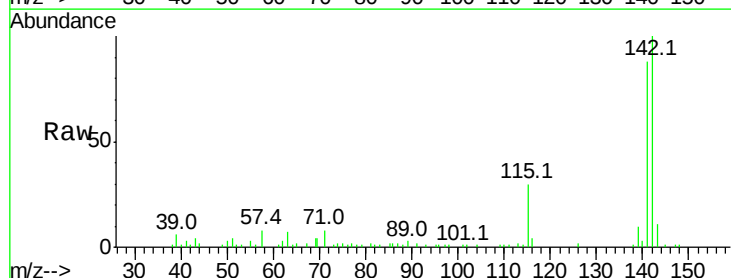
Instrument :
BNA_F
ClientSampleId :

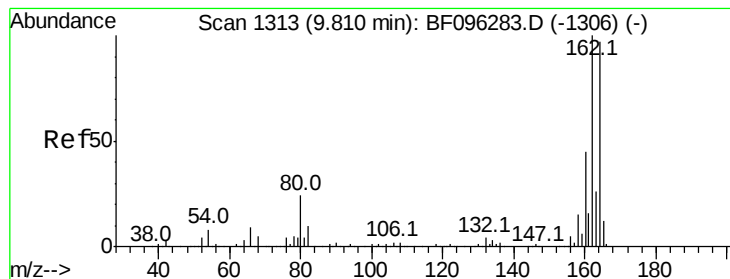
Tot Ion:122 Resp: 393
Ion Ratio Lower Upper
122 100
105 211.9 103.3 143.3#
77 103.0 73.7 113.7



#37
2-Methylnaphthalene
Concen: 2.38 ng
RT: 8.75 min Scan# 1133
Delta R.T. -0.02 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Tgt Ion:142 Resp: 41991
Ion Ratio Lower Upper
142 100
141 87.9 71.3 106.9
115 29.7 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

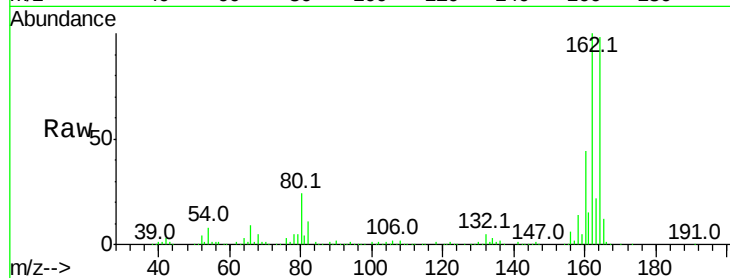
Tot Ion:164 Resp: 205700

Ion Ratio Lower Upper

164 100

162 102.4 82.6 123.8

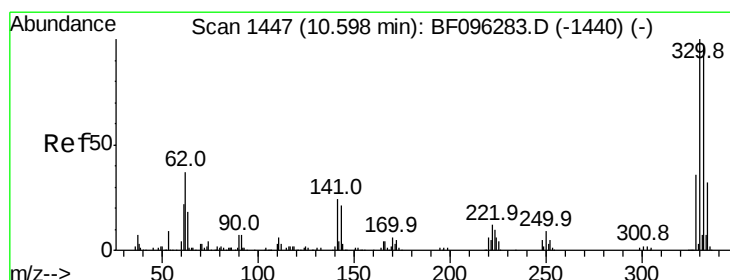
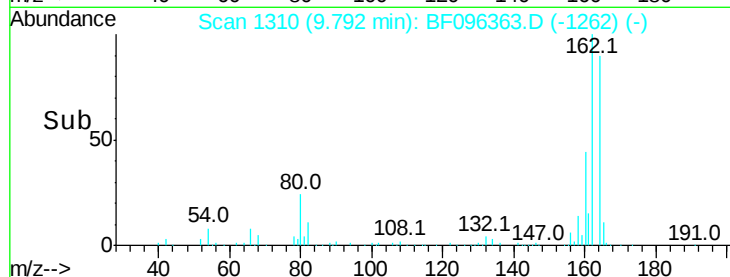
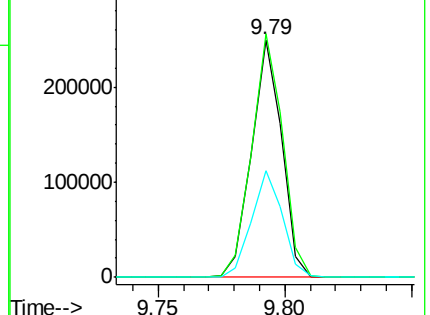
160 44.7 36.2 54.2



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: 114.27 ng

RT: 10.58 min Scan# 1444

Delta R.T. -0.01 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

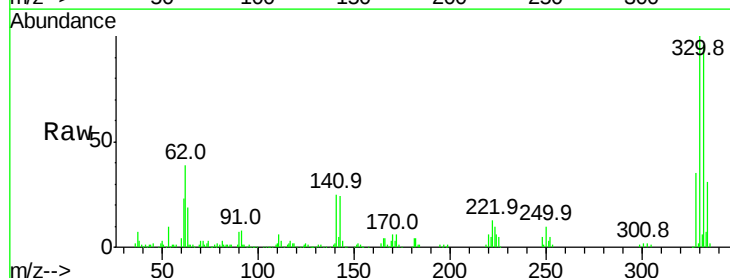
Tgt Ion:330 Resp: 184992

Ion Ratio Lower Upper

330 100

332 95.0 76.6 115.0

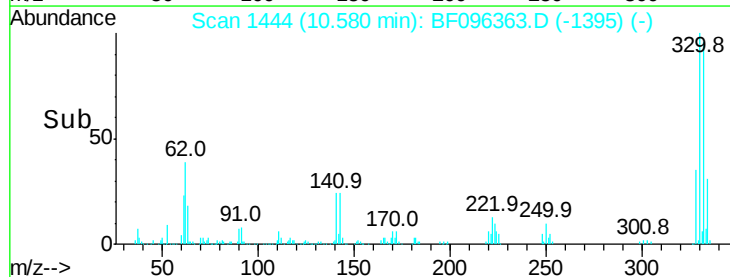
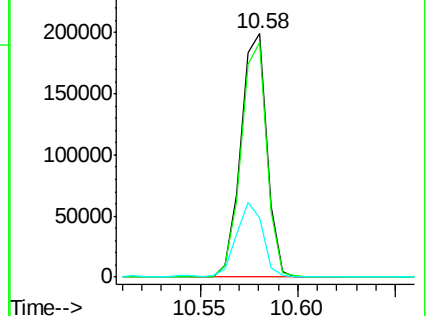
141 30.4 31.4 47.2#

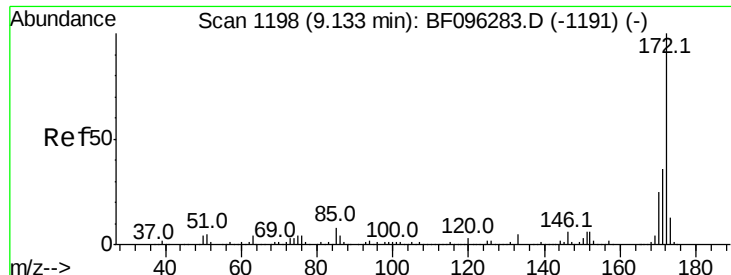


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

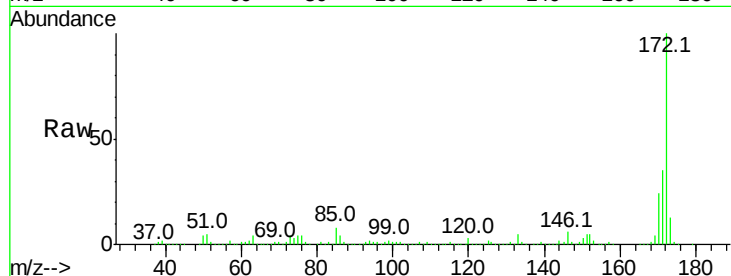




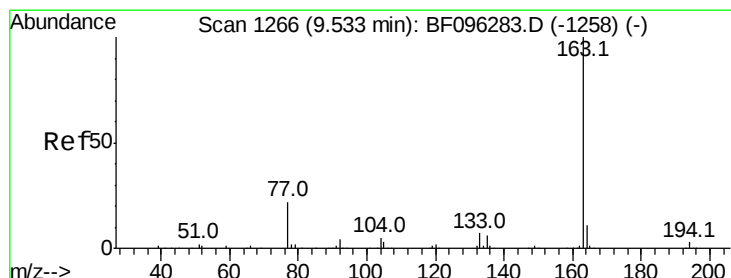
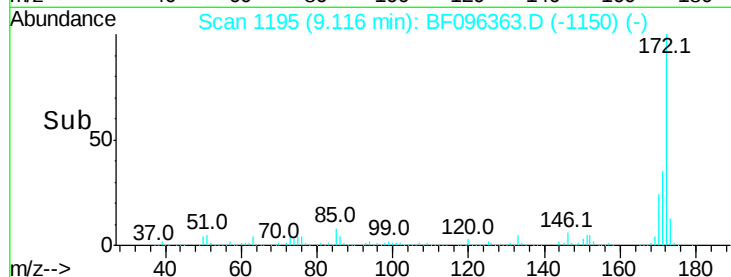
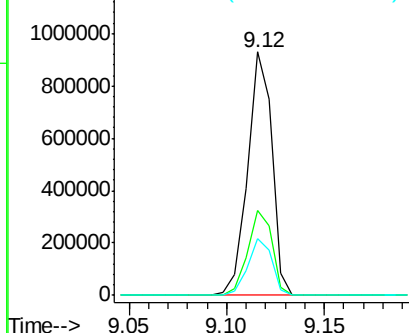
#44
2-Fluorobiphenyl
Concen: 71.35 ng
RT: 9.12 min Scan# 1195
Delta R.T. -0.03 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 801457
Ion Ratio Lower Upper
172 100
171 34.9 29.6 44.4
170 23.5 19.8 29.8

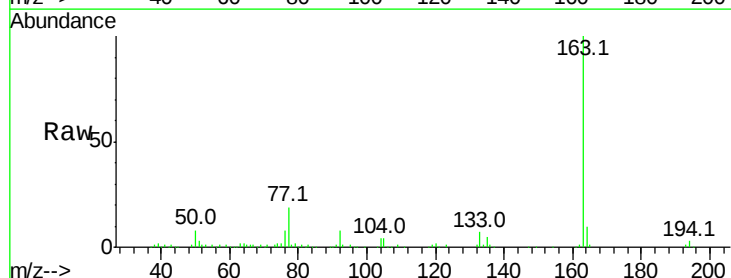


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

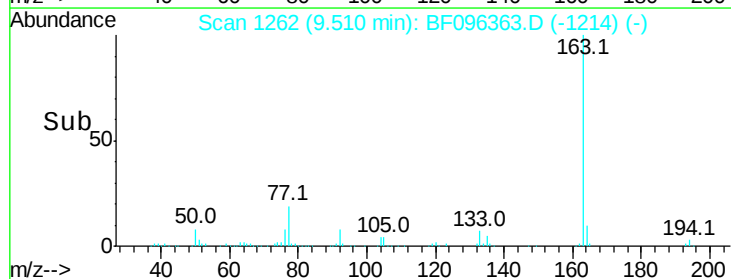
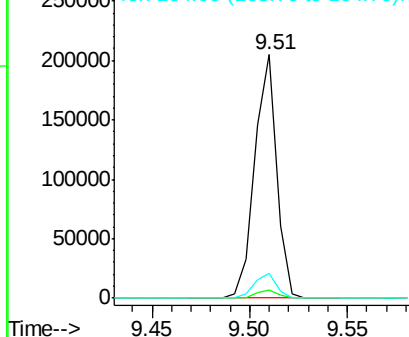


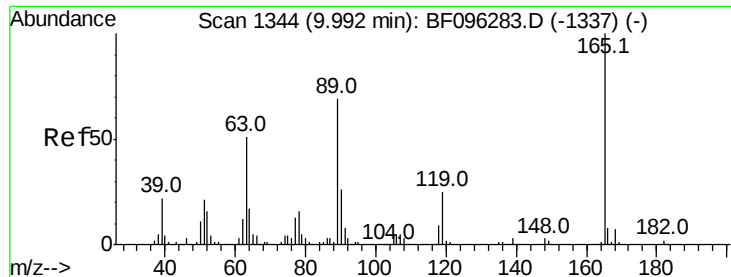
#49
Dimethylphthalate
Concen: 10.86 ng
RT: 9.51 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Tgt Ion:163 Resp: 159869
Ion Ratio Lower Upper
163 100
194 3.3 2.6 4.0
164 9.9 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

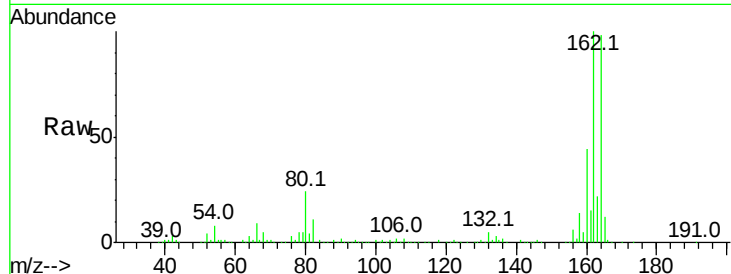




#56
 2,4-Dinitrotoluene
 Concen: 6.95 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.22 min
 Lab File: BF096363.D
 Acq: 1 Jul 2017 3:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	25.4	38.0#
89	2.4	46.4	69.6#
182	0.0	1.8	2.6#

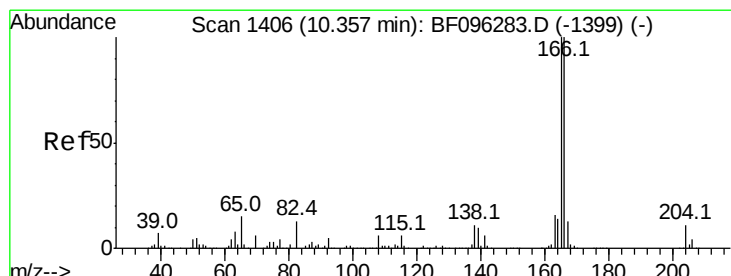
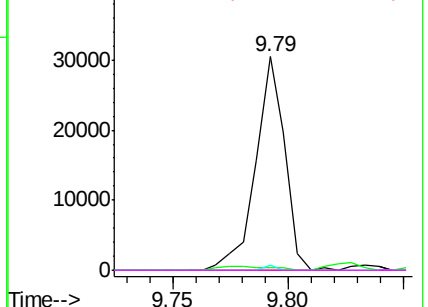
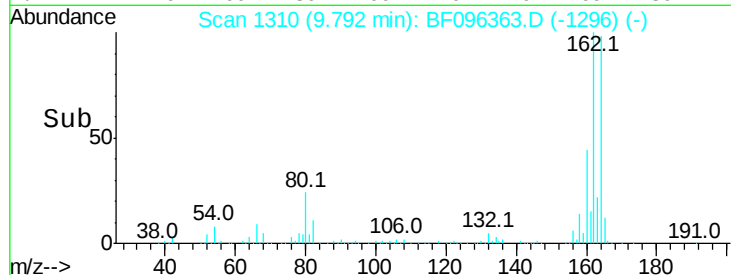


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

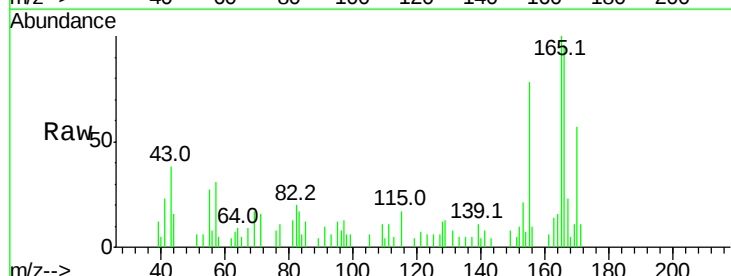
Ion 89.00 (88.70 to 89.70): BF0

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: BF096363.D
 Acq: 1 Jul 2017 3:48

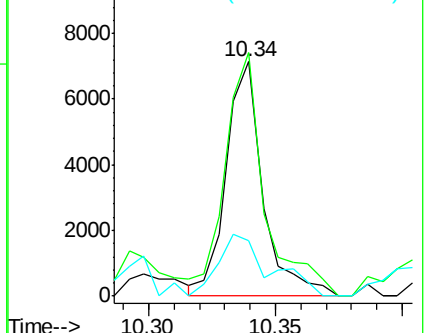
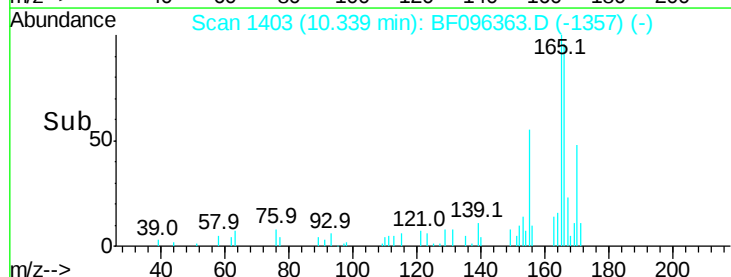
Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.8	78.8	118.2
167	23.8	10.6	16.0#

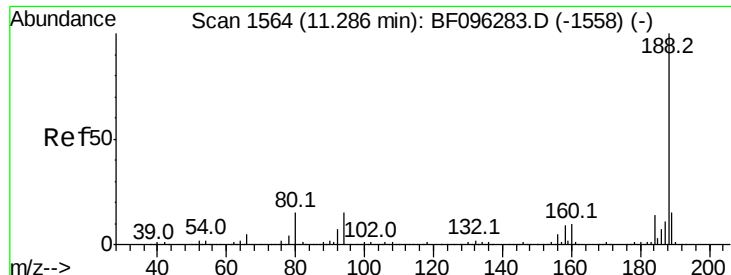


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

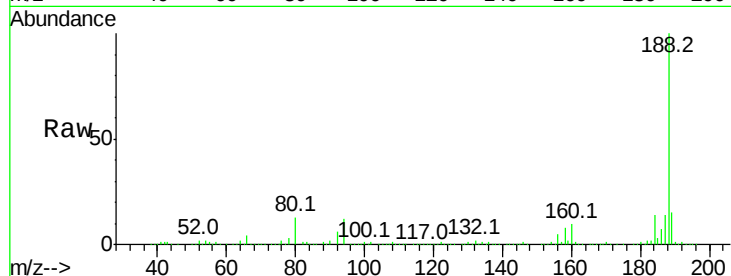




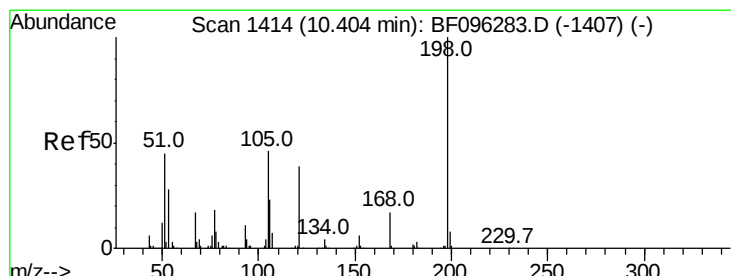
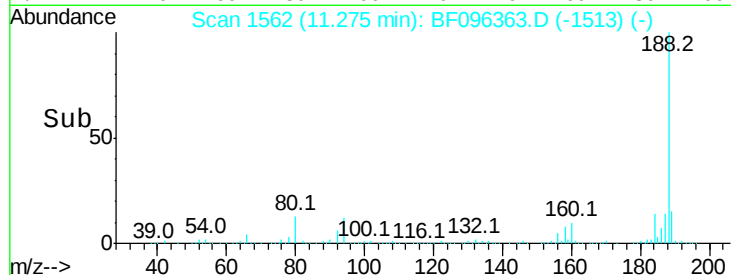
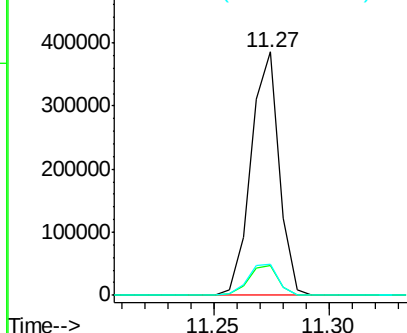
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 328296
Ion Ratio Lower Upper
188 100
94 12.2 9.4 14.2
80 12.6 10.2 15.2

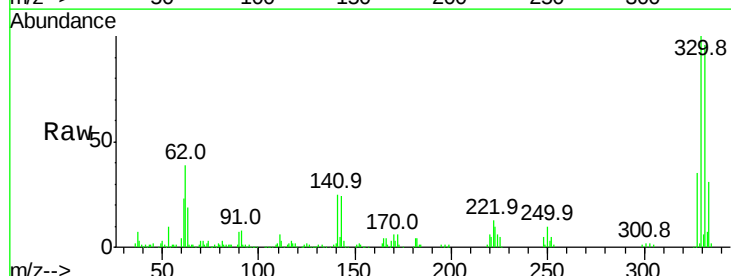


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

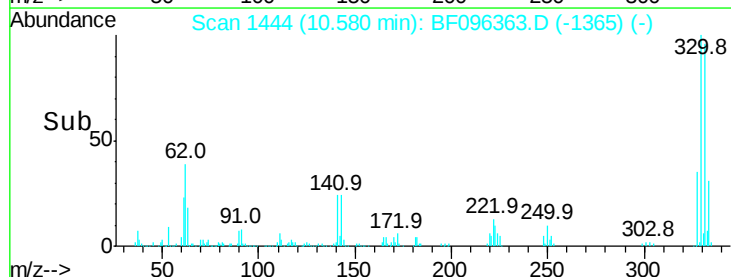
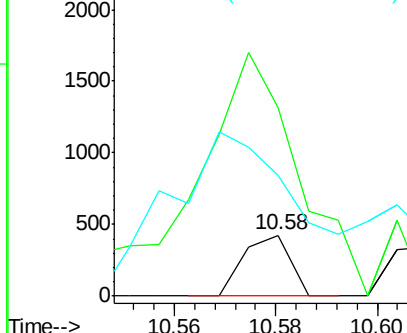


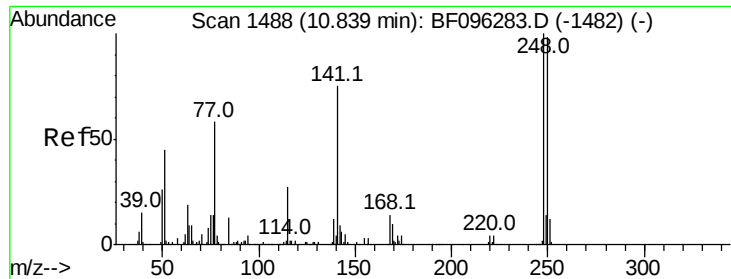
#64
4,6-Dinitro-2-methylphenol
Concen: 8.88 ng
RT: 10.58 min Scan# 1444
Delta R.T. 0.17 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Tgt Ion:198 Resp: 271
Ion Ratio Lower Upper
198 100
51 310.1 53.2 93.2#
105 198.4 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E

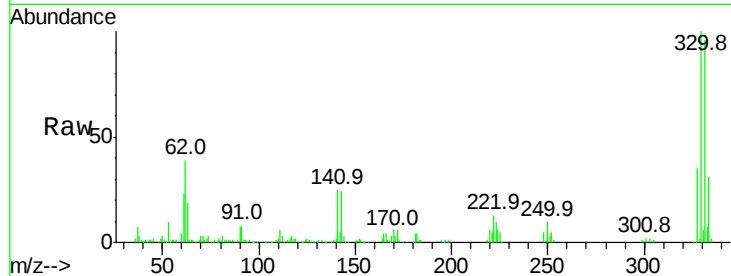




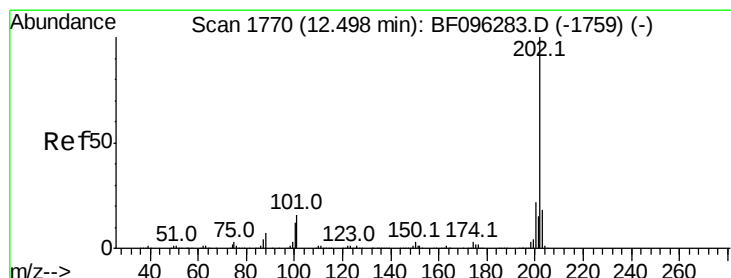
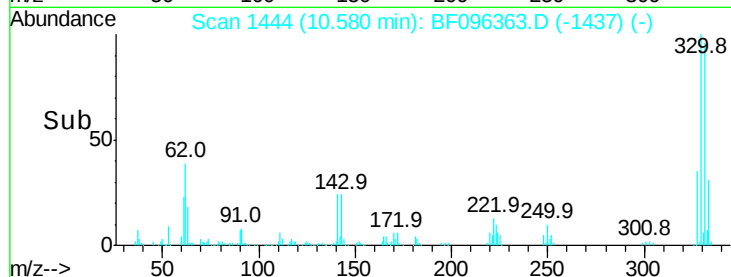
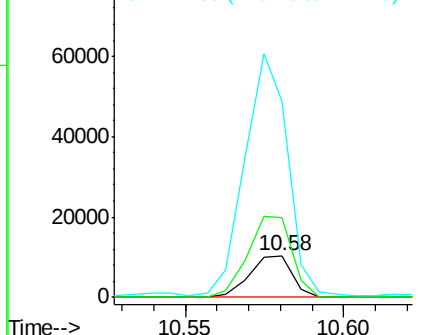
#66
 4-Bromophenyl-phenylether
 Concen: 2.88 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. -0.26 min
 Lab File: BF096363.D
 Acq: 1 Jul 2017 3:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 9745
 Ion Ratio Lower Upper
 248 100
 250 192.9 76.8 115.2#
 141 471.0 68.6 103.0#

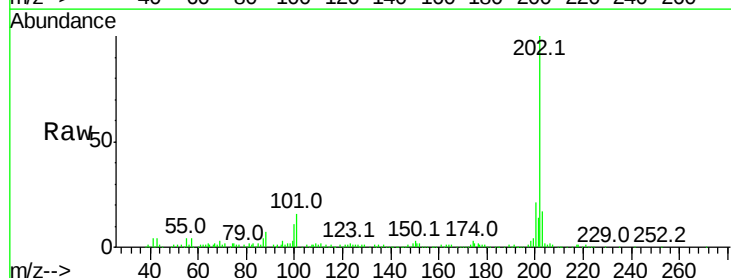


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

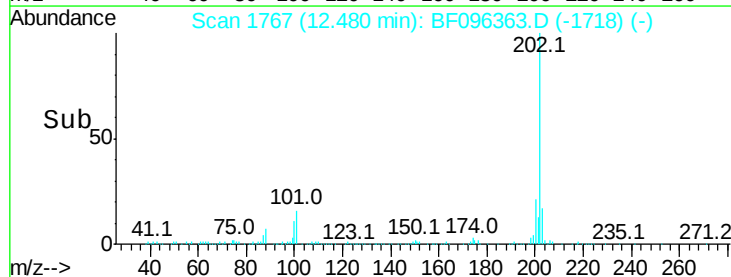
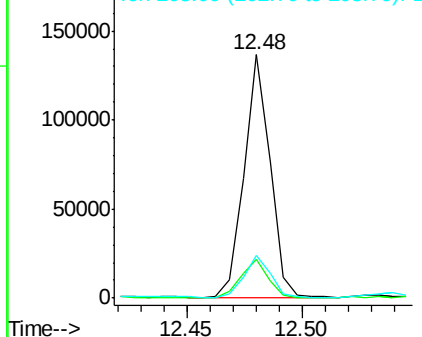


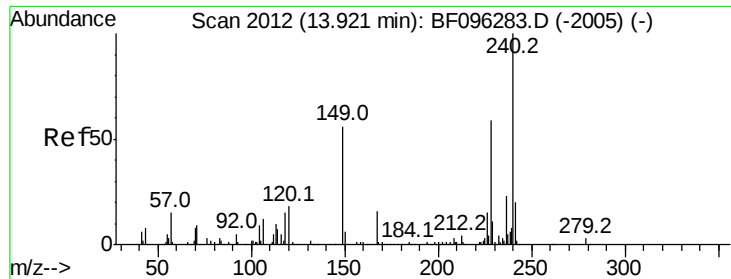
#74
 Fluoranthene
 Concen: 5.86 ng
 RT: 12.48 min Scan# 1767
 Delta R.T. -0.01 min
 Lab File: BF096363.D
 Acq: 1 Jul 2017 3:48

Tgt Ion:202 Resp: 106791
 Ion Ratio Lower Upper
 202 100
 101 16.1 0.0 33.2
 203 17.4 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: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

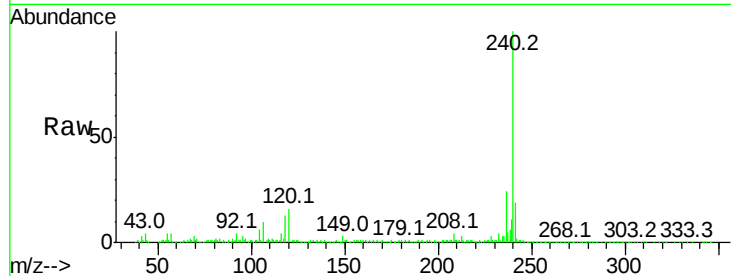
Tot Ion:240 Resp: 277245

Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

236 24.4 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

13.90

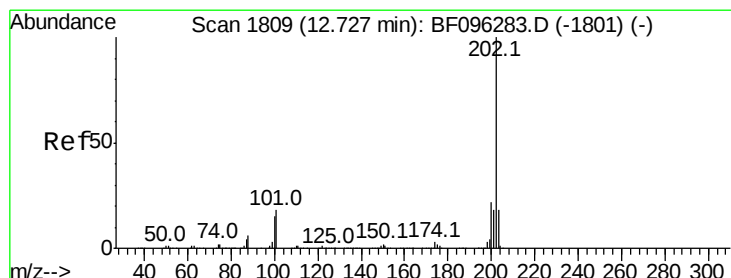
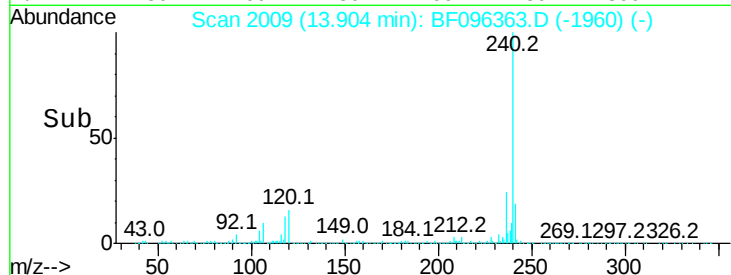
300000

200000

100000

0

Time--> 13.80 13.90 14.00



#77

Pyrene

Concen: 4.64 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

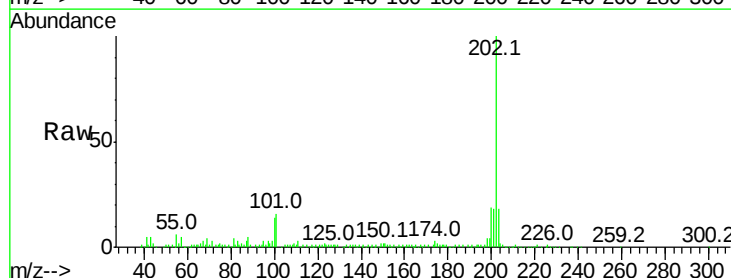
Tgt Ion:202 Resp: 105774

Ion Ratio Lower Upper

202 100

200 19.5 17.6 26.4

203 17.9 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

12.71

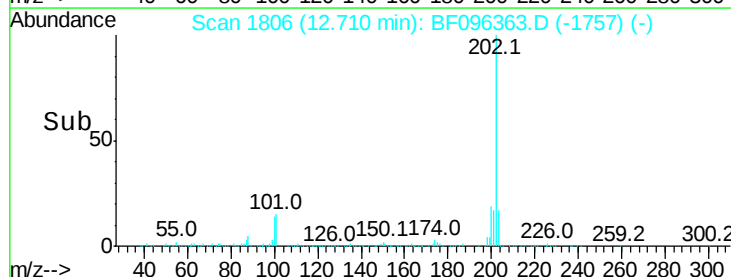
150000

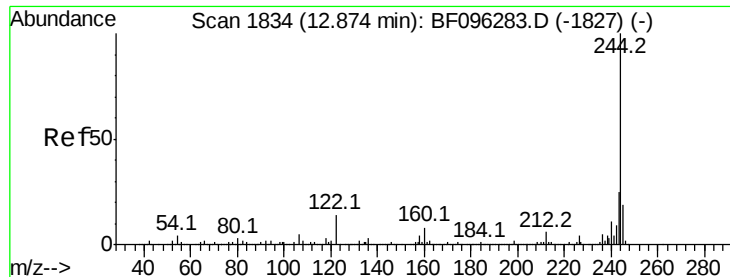
100000

50000

0

Time--> 12.65 12.70 12.75





#78

Terphenyl-d14

Concen: 55.87 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

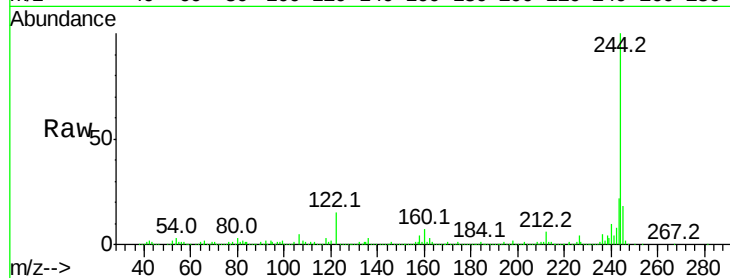
Tot Ion:244 Resp: 620808

Ion Ratio Lower Upper

244 100

212 6.2 6.0 9.0

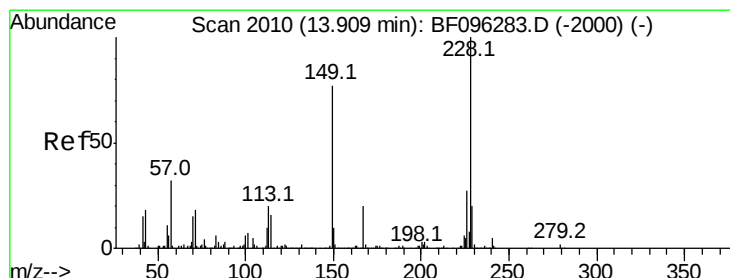
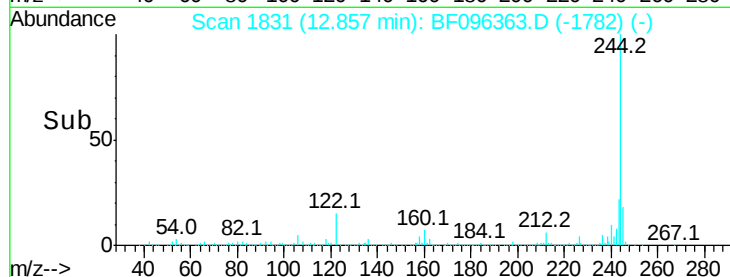
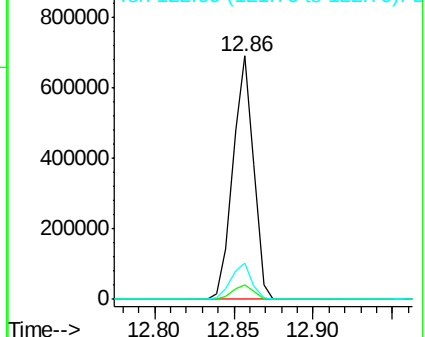
122 14.7 10.3 15.5



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: 2.81 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

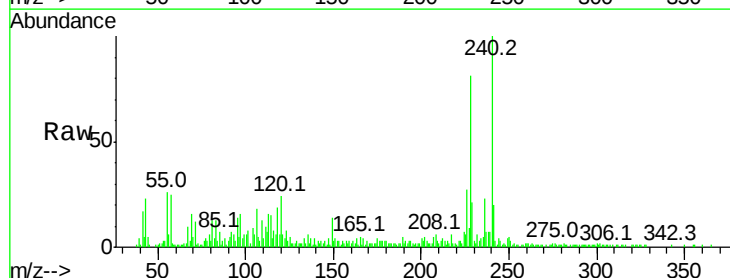
Tgt Ion:228 Resp: 47544

Ion Ratio Lower Upper

228 100

226 32.9 22.6 33.8

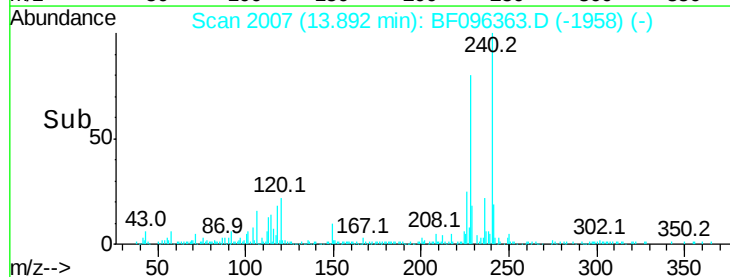
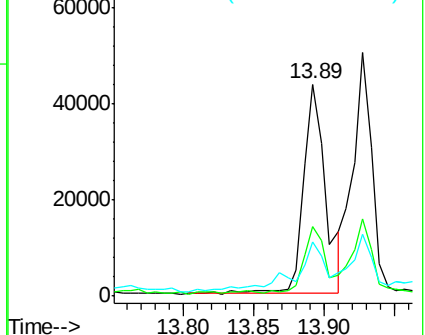
229 25.5 16.3 24.5#

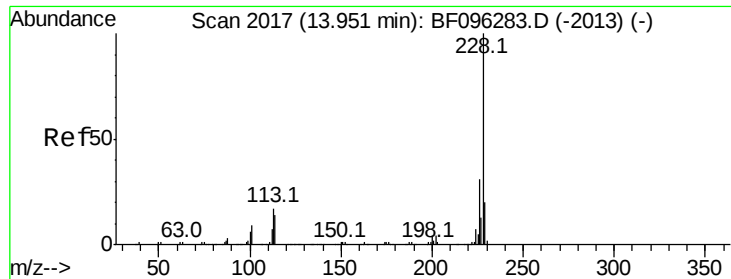


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

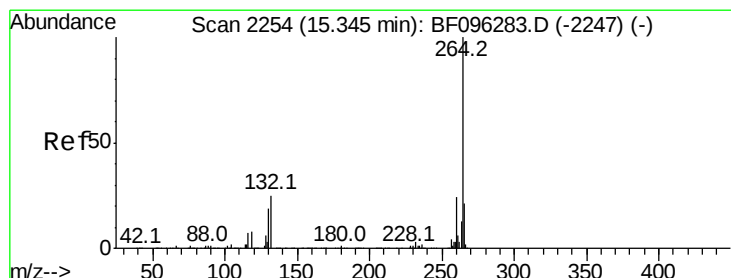
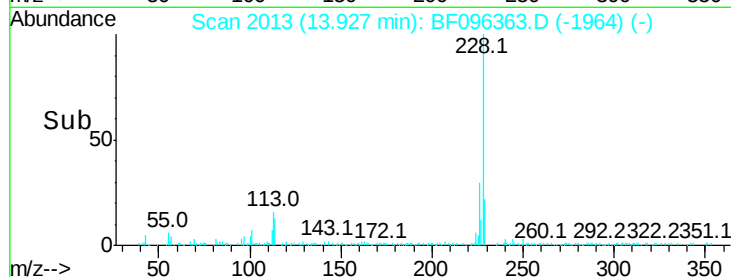
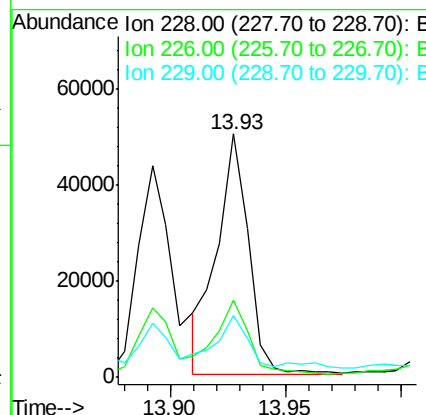
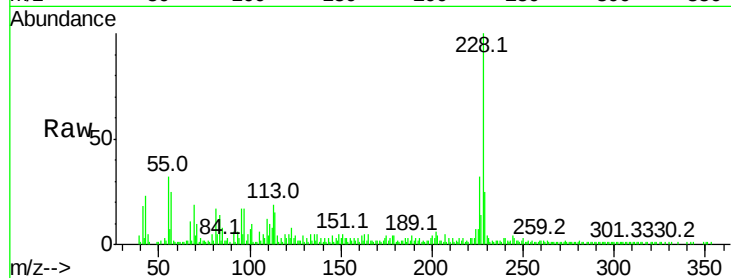




#82
Chrysene
Concen: 2.74 ng
RT: 13.93 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

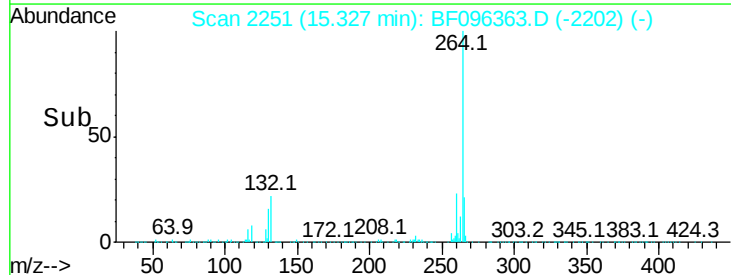
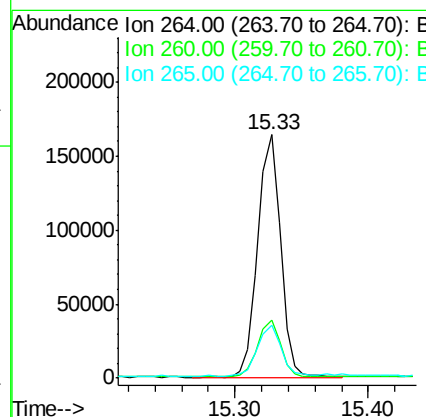
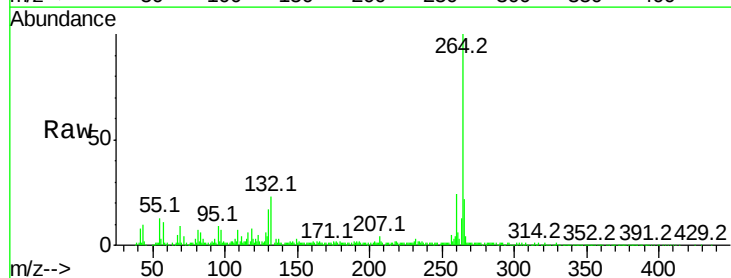
Instrument :
BNA_F
ClientSampleId :

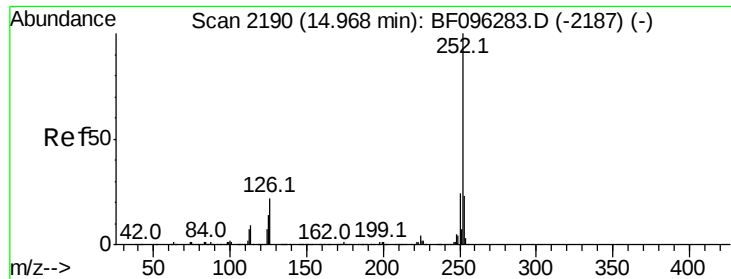
Tot Ion:228 Resp: 47948
Ion Ratio Lower Upper
228 100
226 31.5 24.9 37.3
229 25.4 15.8 23.6#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.01 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Tgt Ion:264 Resp: 193073
Ion Ratio Lower Upper
264 100
260 23.6 19.5 29.3
265 21.8 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 4.77 ng

RT: 14.92 min Scan# 2182

Delta R.T. -0.04 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

Instrument :

BNA_F

ClientSampleId :

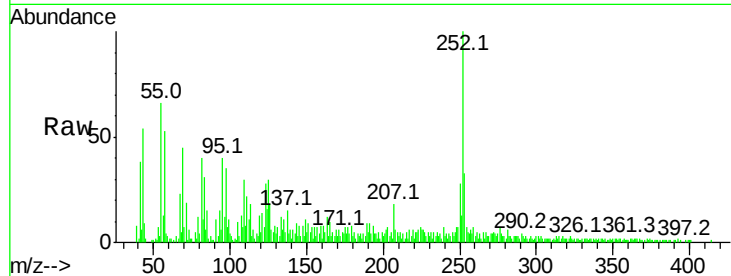
Tot Ion:252 Resp: 60467

Ion Ratio Lower Upper

252 100

253 32.9 18.1 27.1#

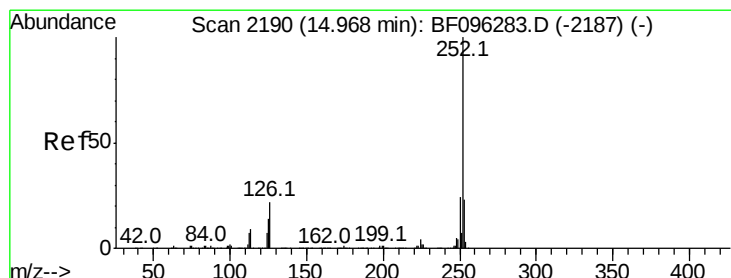
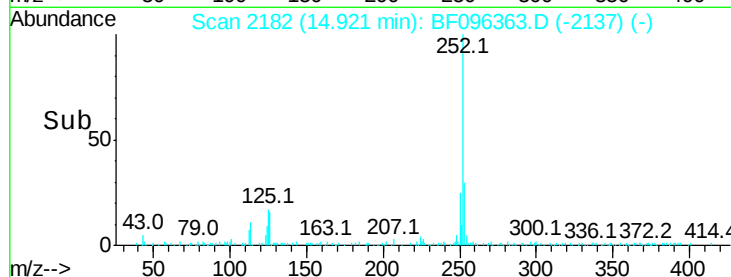
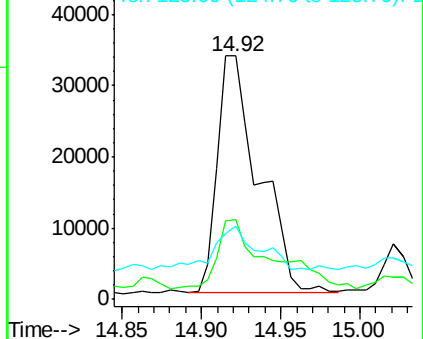
125 30.0 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 5.22 ng

RT: 14.92 min Scan# 2182

Delta R.T. -0.04 min

Lab File: BF096363.D

Acq: 1 Jul 2017 3:48

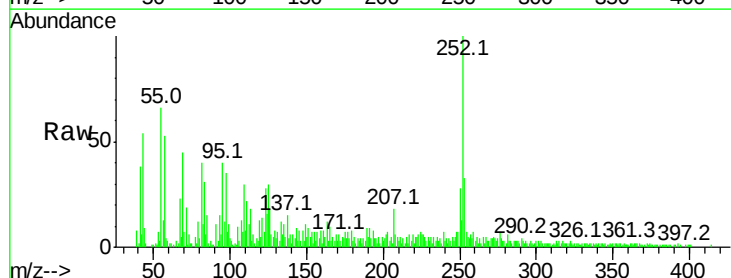
Tgt Ion:252 Resp: 60467

Ion Ratio Lower Upper

252 100

253 32.9 18.4 27.6#

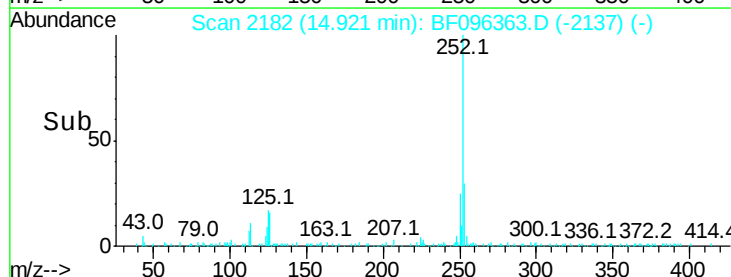
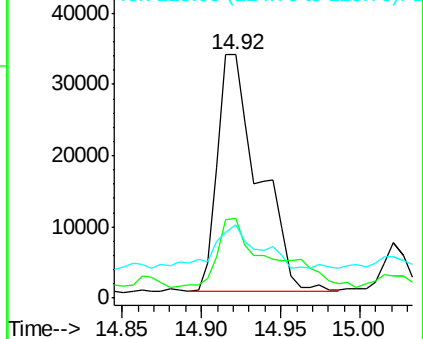
125 30.0 13.1 19.7#

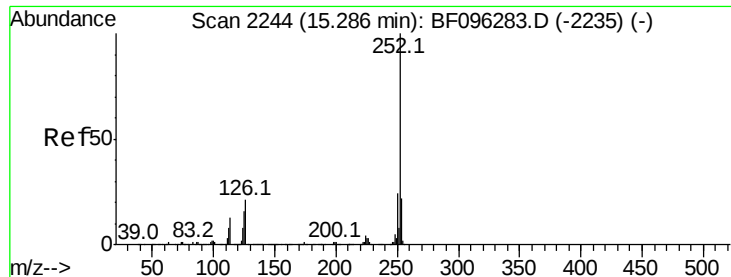


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

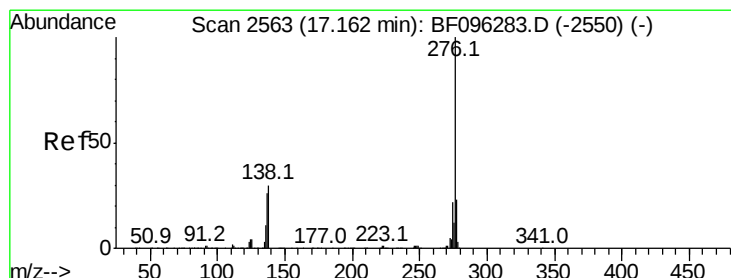
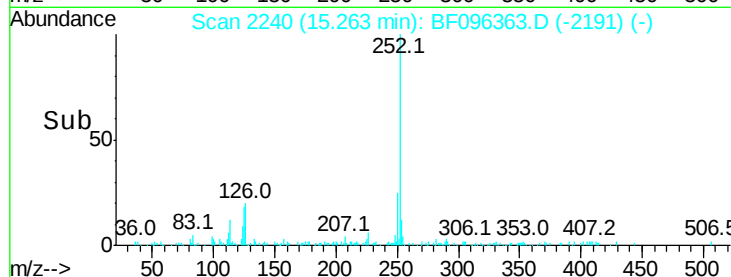
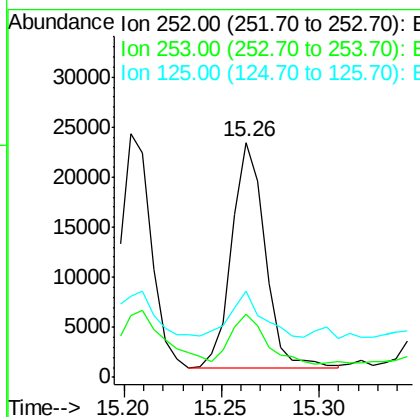
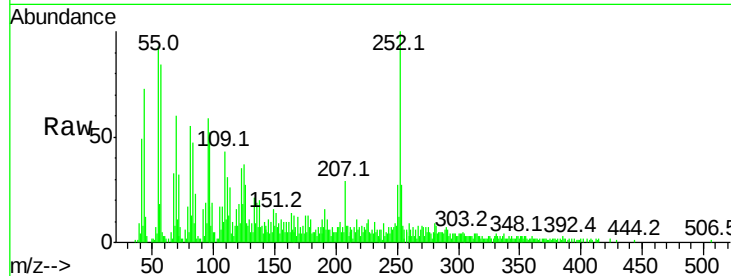




#89
Benzo(a)pyrene
Concen: 2.38 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 26625
Ion Ratio Lower Upper
252 100
253 26.9 17.5 26.3#
125 36.7 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 2.19 ng
RT: 17.12 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BF096363.D
Acq: 1 Jul 2017 3:48

Tgt Ion:276 Resp: 19925
Ion Ratio Lower Upper
276 100
277 28.8 18.6 28.0#
138 35.9 25.4 38.0

