

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096353.D
 Acq On : 30 Jun 2017 23:07
 Operator : SJ/MA
 Sample : I3908-08 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

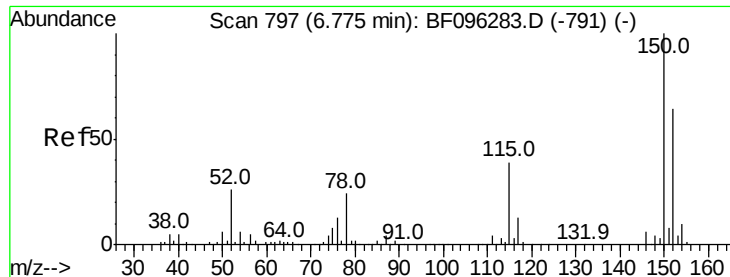
Quant Time: Jul 01 00:18:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	122608	20.00	ng	-0.02
21) Naphthalene-d8	8.04	136	485567	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	172880	20.00	ng	-0.02
63) Phenanthrene-d10	11.27	188	254019	20.00	ng	-0.02
75) Chrysene-d12	13.90	240	257049	20.00	ng	-0.01
86) Perylene-d12	15.32	264	165142	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	270212	31.75	ng	-0.02
7) Phenol-d6	6.38	99	322087	31.26	ng	-0.01
23) Nitrobenzene-d5	7.31	82	169747	24.20	ng	-0.05
41) 2,4,6-Tribromophenol	10.57	330	47664	35.03	ng	-0.02
44) 2-Fluorobiphenyl	9.12	172	278839	29.54	ng	-0.03
78) Terphenyl-d14	12.85	244	189822	18.43	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.30	77	3602	Below Cal		90
19) n-Nitroso-di-n-propylamine	7.31	70	22096	3.58 ng	#	86
25) Isophorone	7.31	82	169590	10.65 ng	#	67
31) Naphthalene	8.06	128	55294	2.36 ng		97
32) Benzoic acid	7.83	122	432	8.86 ng	#	34
37) 2-Methylnaphthalene	8.75	142	39643	2.61 ng		98
49) Dimethylphthalate	9.50	163	31275	2.53 ng		99
50) 2,6-Dinitrotoluene	9.79	165	22589	8.78 ng	#	33
56) 2,4-Dinitrotoluene	9.79	165	22589	6.96 ng	#	32
57) Fluorene	10.34	166	5828	Below Cal	#	95
64) 4,6-Dinitro-2-methylphenol	10.61	198	110	8.82 ng	#	58
70) Phenanthrene	11.29	178	70402	Below Cal		98
74) Fluoranthene	12.48	202	135755	9.62 ng		97
77) Pyrene	12.70	202	138613	6.56 ng		96
80) Benzo(a)anthracene	13.93	228	81910	5.23 ng		96
82) Chrysene	13.93	228	81910	5.05 ng		96
87) Benzo(b)fluoranthene	14.92	252	94483	8.71 ng	#	89
88) Benzo(k)fluoranthene	14.92	252	94483	9.54 ng	#	93
89) Benzo(a)pyrene	15.26	252	40633	4.24 ng	#	84
91) Benzo(a,h,i)perylene	17.12	276	23406	3.00 ng		94

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

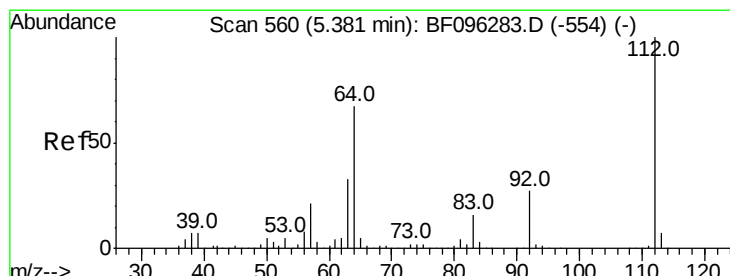
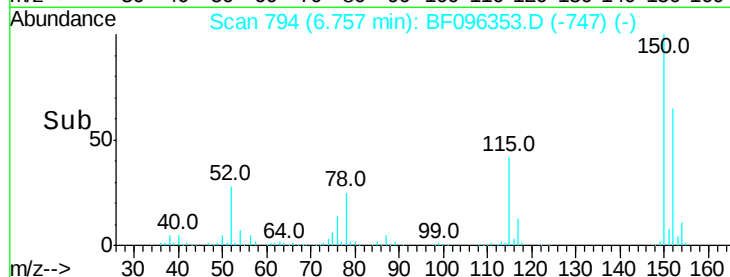
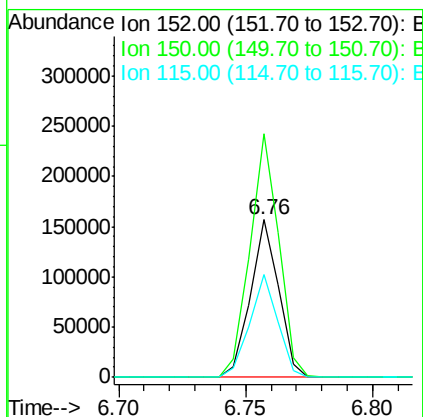
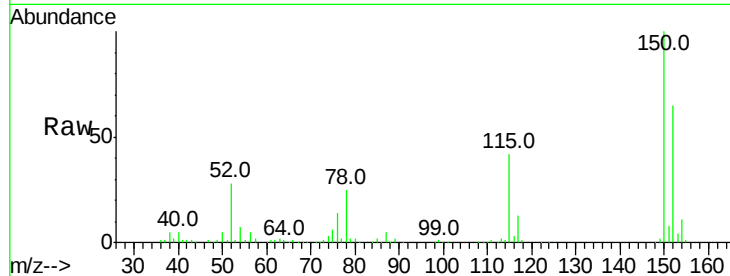


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Instrument :
BNA_F
ClientSampleId :

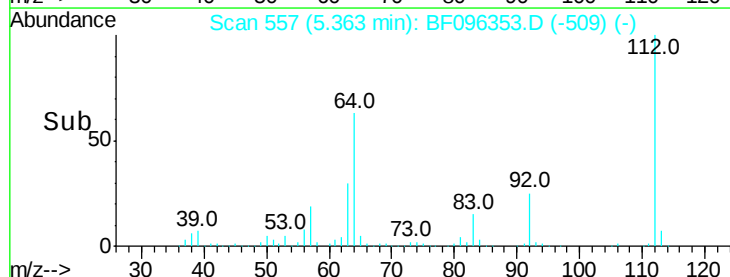
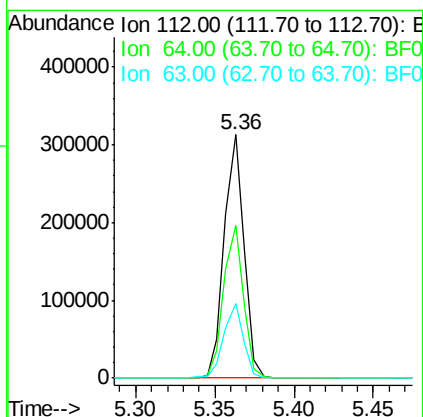
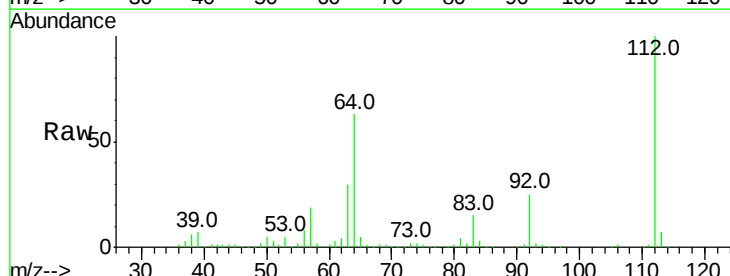
Tot Ion:152 Resp: 122608
Ion Ratio Lower Upper
152 100
150 154.4 126.2 189.2
115 65.2 52.2 78.2

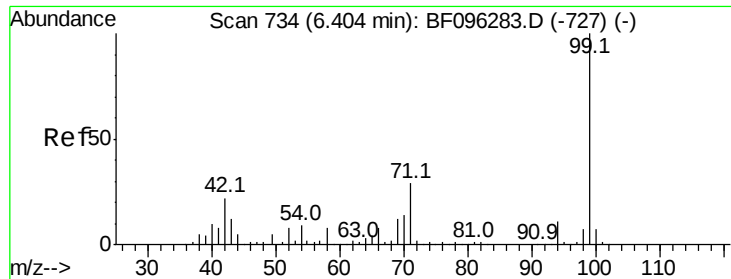


#5

2-Fluorophenol
Concen: 31.75 ng
RT: 5.36 min Scan# 557
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Tgt Ion:112 Resp: 270212
Ion Ratio Lower Upper
112 100
64 62.9 46.0 69.0
63 30.4 23.4 35.0





#7

Phenol-d6

Concen: 31.26 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampleId :

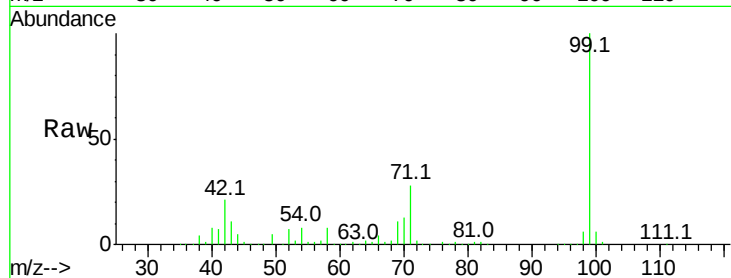
Tot Ion: 99 Resp: 322087

Ion Ratio Lower Upper

99 100

42 20.6 13.5 20.3#

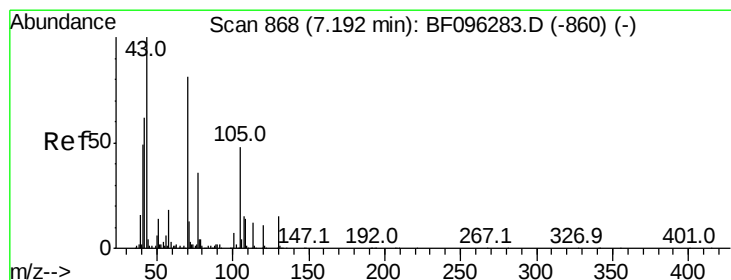
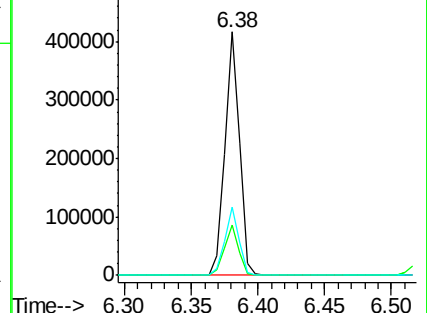
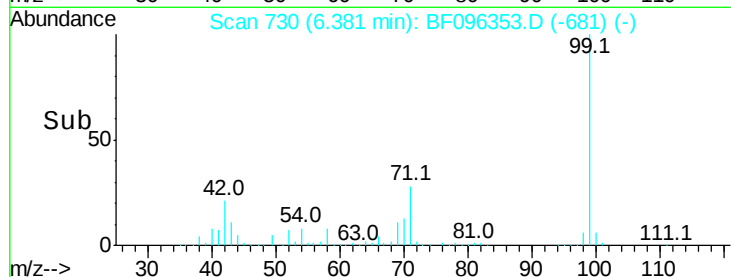
71 28.0 24.5 36.7



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: 3.58 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.13 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Tgt Ion: 70 Resp: 22096

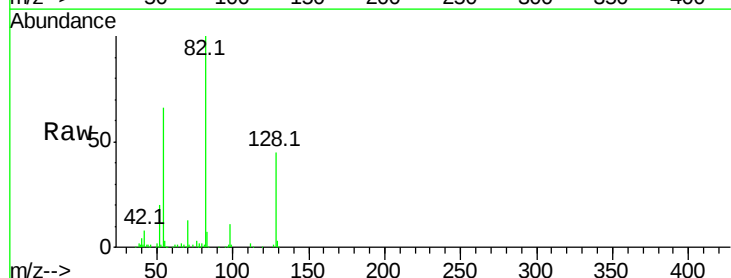
Ion Ratio Lower Upper

70 100

42 62.1 47.2 70.8

101 0.0 7.2 10.8#

130 2.7 15.9 23.9#

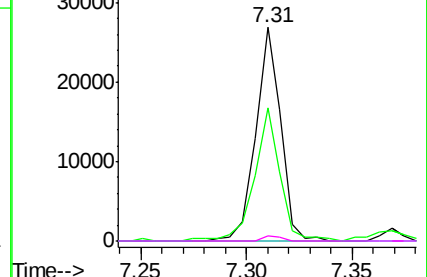
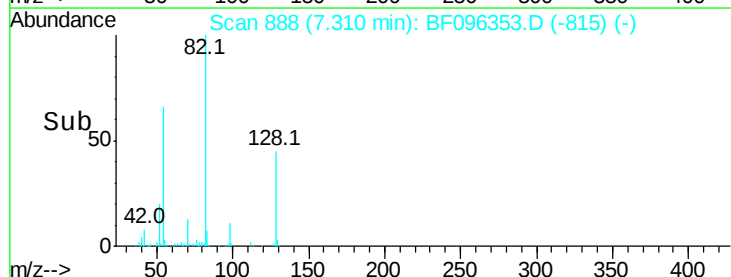


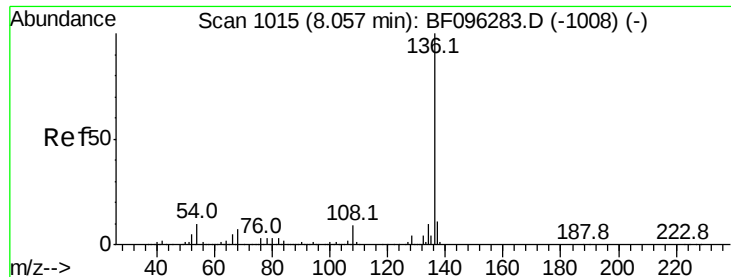
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: BF096353.D

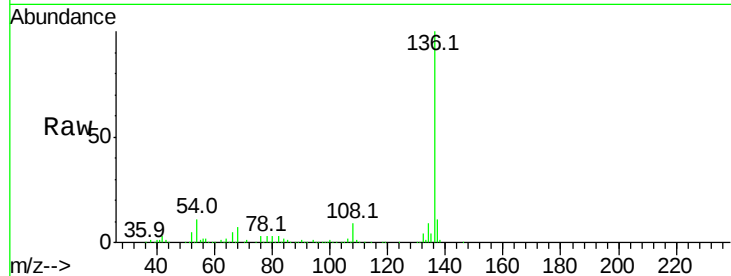
Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136	Resp:	485567
Ion Ratio	Lower	Upper
136	100	
137	10.7	8.5 12.7
54	10.9	4.9 7.3#
68	6.6	4.1 6.1#

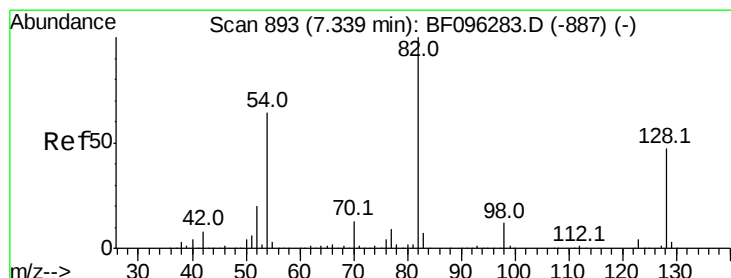
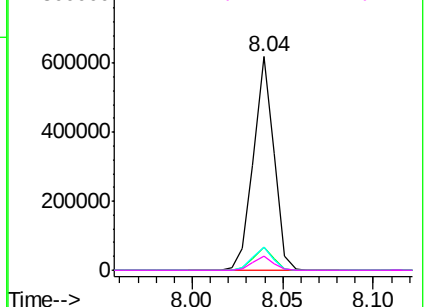
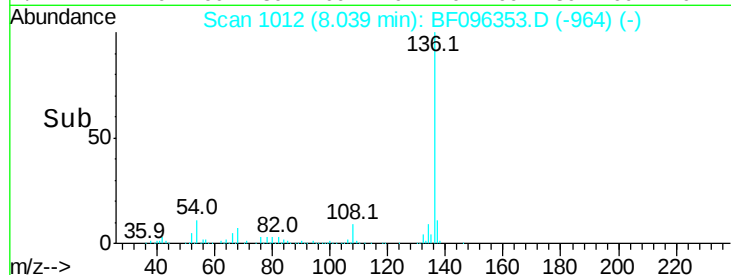


Abundance Ion 136.00 (135.70 to 136.70): E

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: 24.20 ng

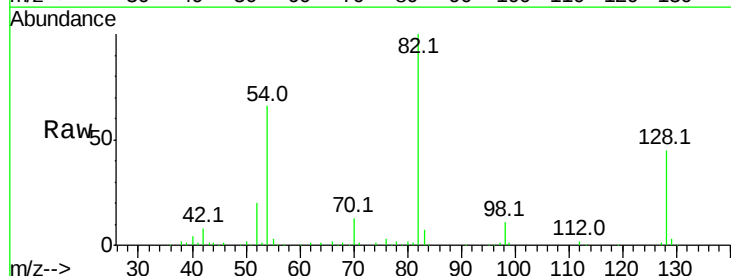
RT: 7.31 min Scan# 888

Delta R.T. -0.05 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

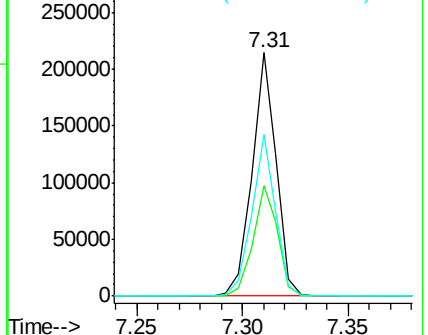
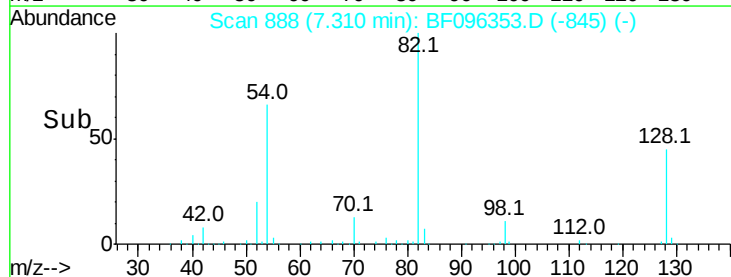
Tgt Ion: 82	Resp:	169747
Ion Ratio	Lower	Upper
82	100	
128	45.3	34.0 51.0
54	66.5	42.2 63.2#

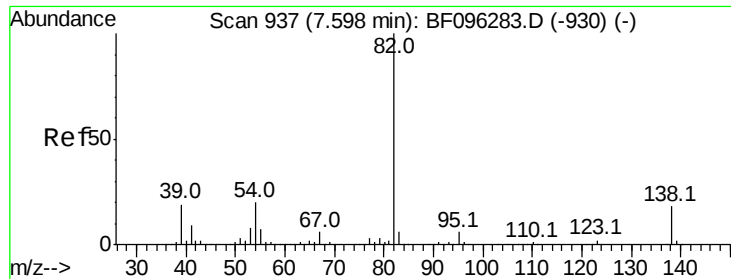


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 10.65 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.28 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampled :

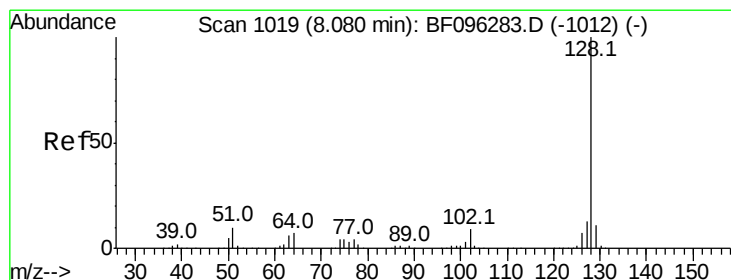
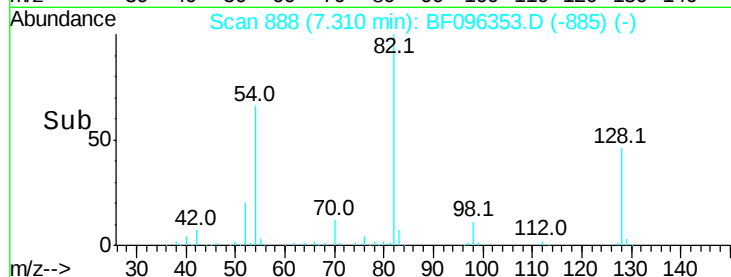
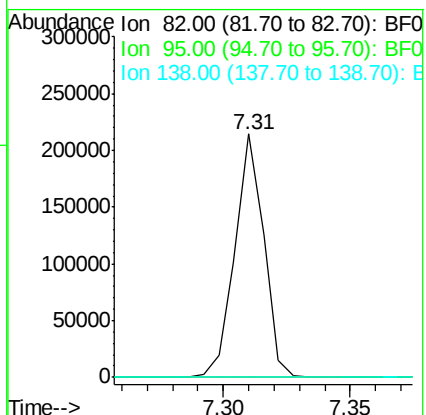
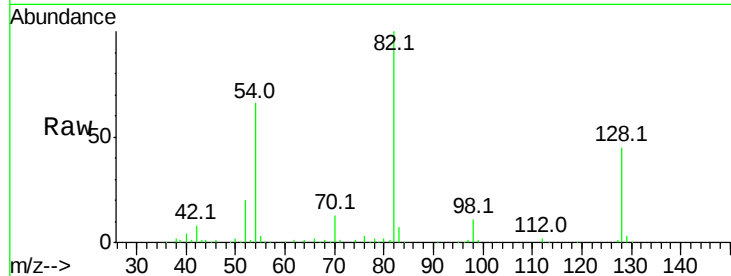
Tot Ion: 82 Resp: 169590

Ion Ratio Lower Upper

82 100

95 0.3 5.3 7.9#

138 0.0 13.1 19.7#



#31

Naphthalene

Concen: 2.36 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.02 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

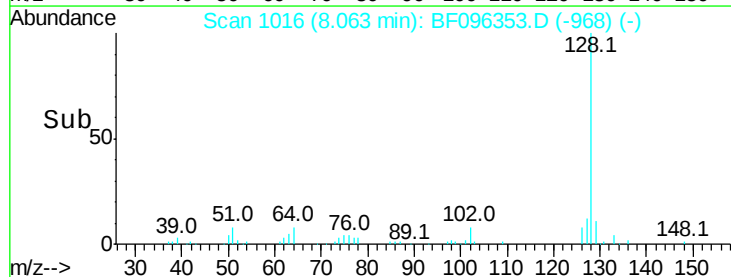
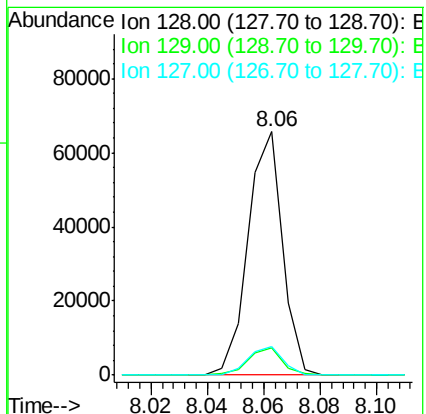
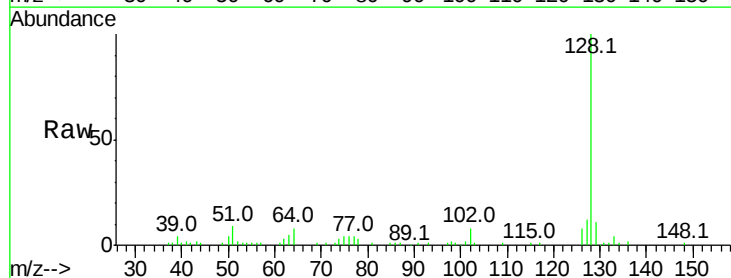
Tgt Ion:128 Resp: 55294

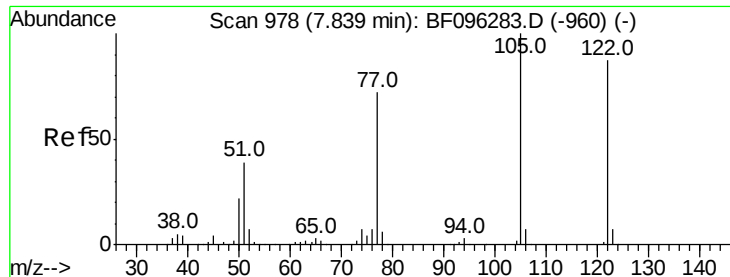
Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

127 11.8 10.8 16.2





#32

Benzoic acid

Concen: 8.86 ng

RT: 7.83 min Scan# 976

Delta R.T. -0.06 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampleId :

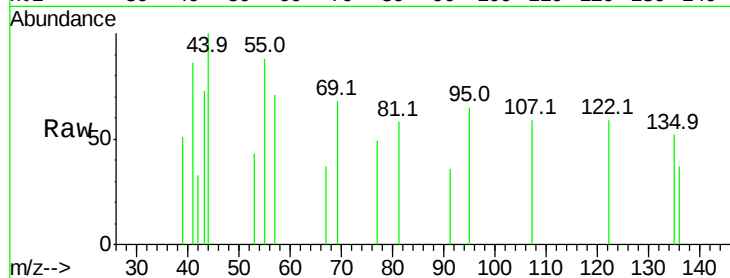
Tot Ion:122 Resp: 432

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

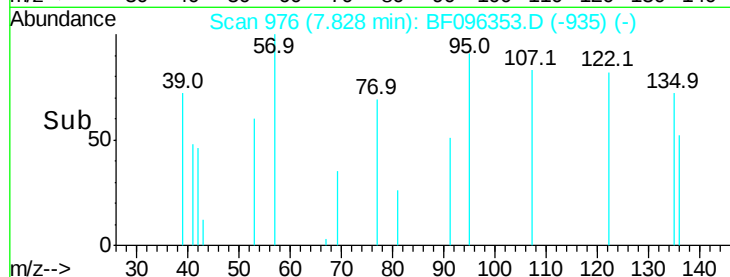
77 84.1 73.7 113.7



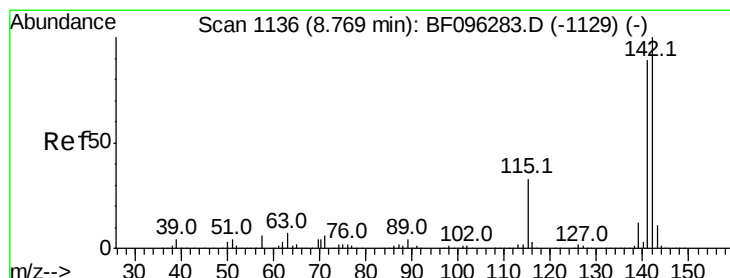
Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



Time-->



#37

2-Methylnaphthalene

Concen: 2.61 ng

RT: 8.75 min Scan# 1133

Delta R.T. -0.02 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

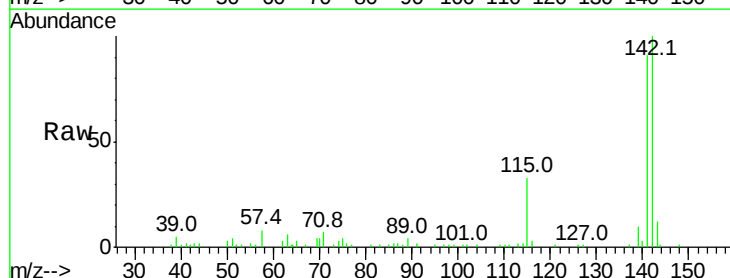
Tgt Ion:142 Resp: 39643

Ion Ratio Lower Upper

142 100

141 90.6 71.3 106.9

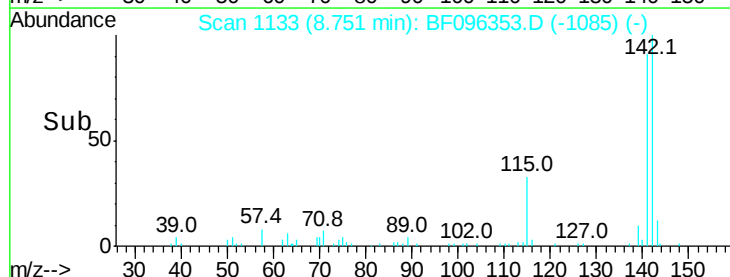
115 32.6 27.1 40.7



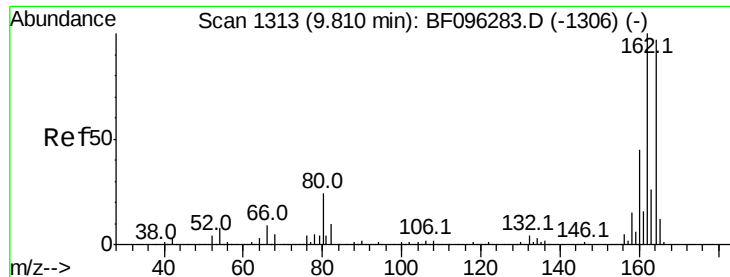
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



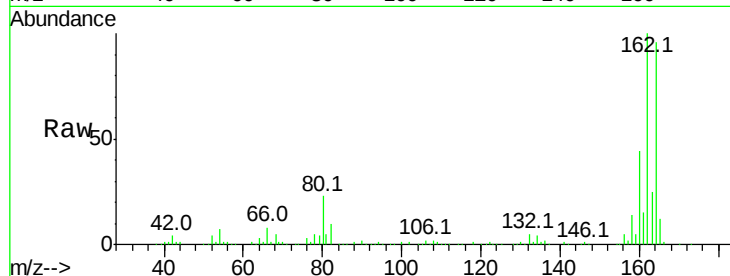
Time-->



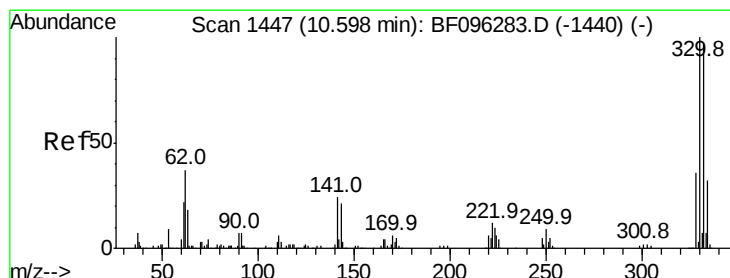
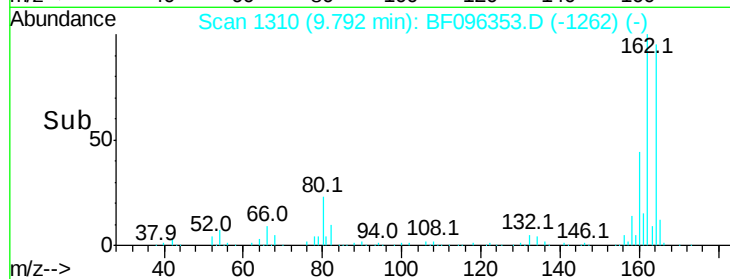
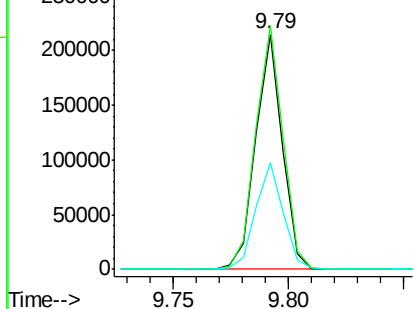
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.02 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.7	82.6	123.8
160	45.7	36.2	54.2

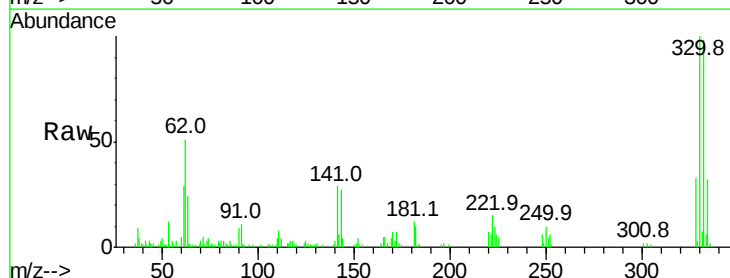


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

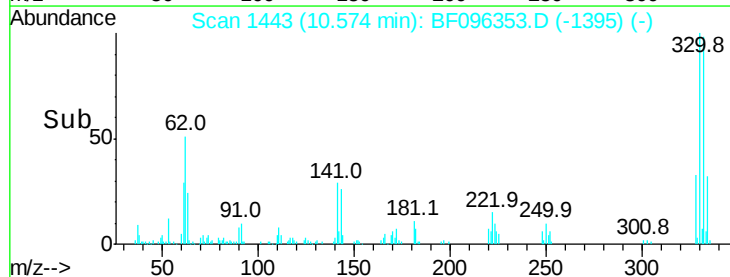
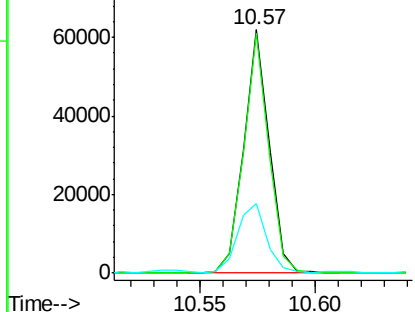


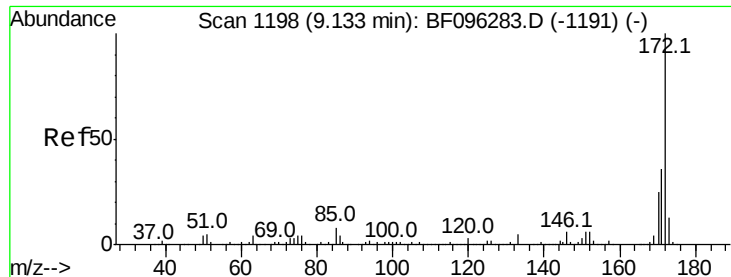
#41
 2,4,6-Tribromophenol
 Concen: 35.03 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. -0.02 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.6	115.0
141	33.2	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

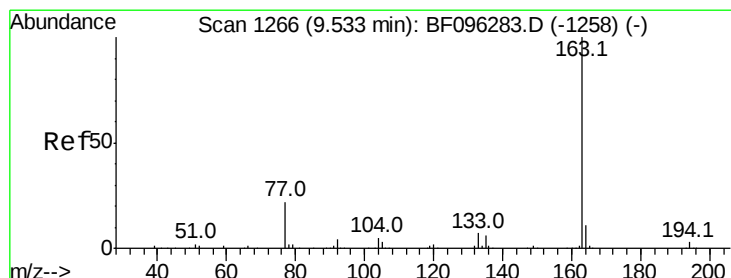
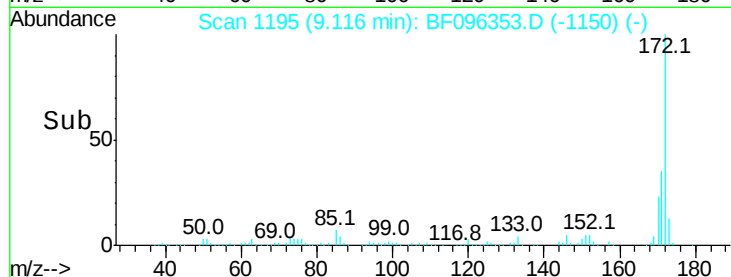
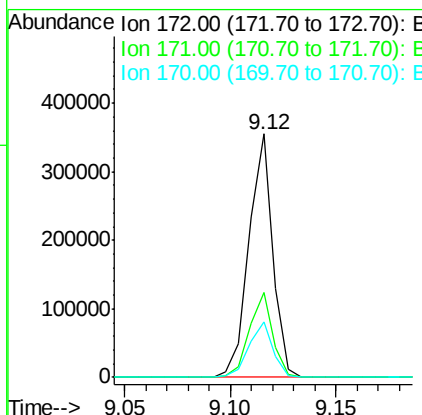
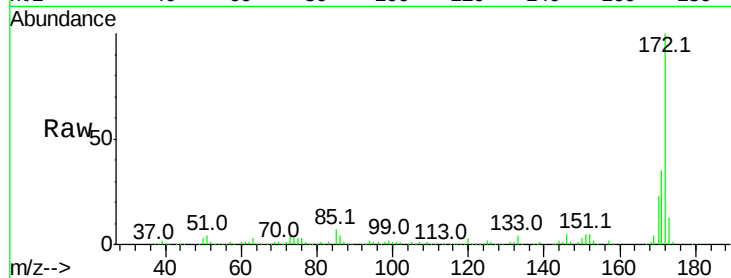




#44
2-Fluorobiphenyl
Concen: 29.54 ng
RT: 9.12 min Scan# 1195
Delta R.T. -0.03 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

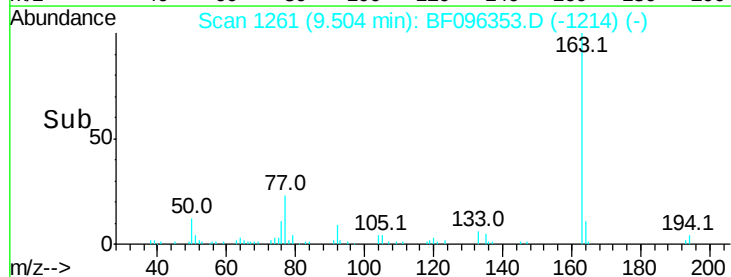
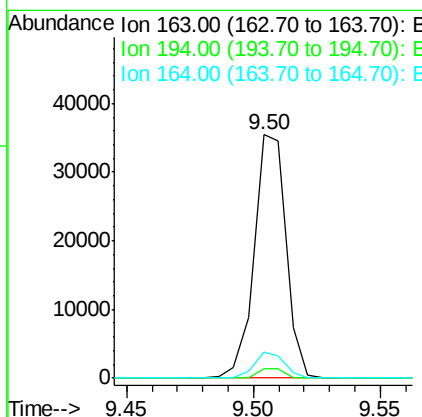
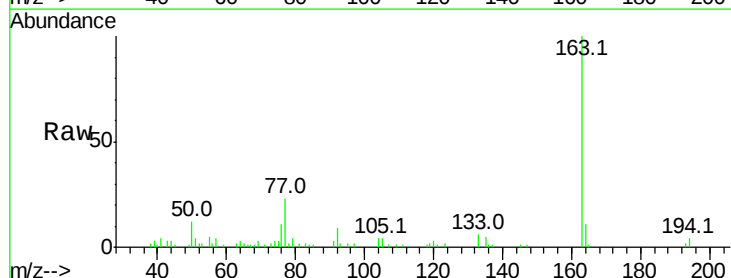
Instrument :
BNA_F
ClientSampleId :

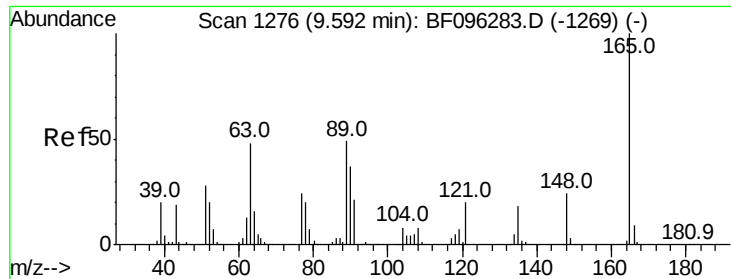
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.6	44.4
170	22.8	19.8	29.8



#49
Dimethylphthalate
Concen: 2.53 ng
RT: 9.50 min Scan# 1261
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.6	4.0
164	10.7	8.4	12.6

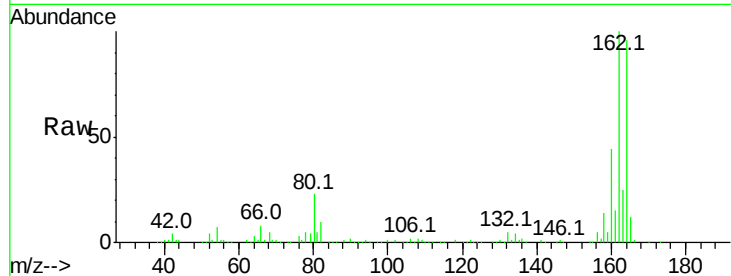




#50
2,6-Dinitrotoluene
Concen: 8.78 ng
RT: 9.79 min Scan# 1310
Delta R.T. 0.18 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Instrument :
BNA_F
ClientSampleId :

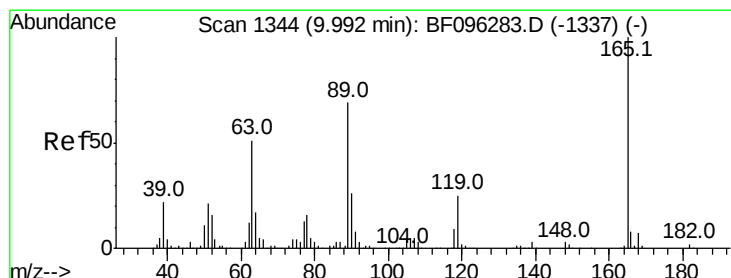
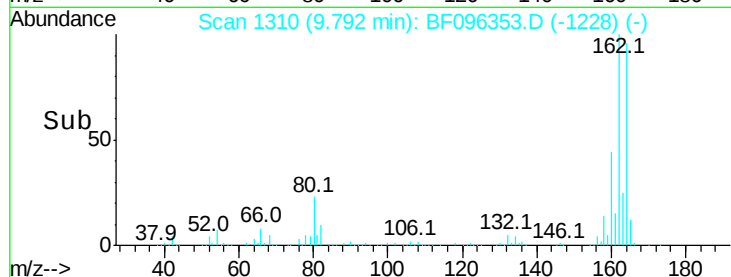
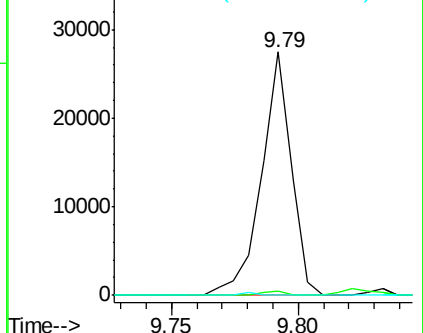
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	0.0	37.1	55.7#



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



#56
2,4-Dinitrotoluene
Concen: 6.96 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.22 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

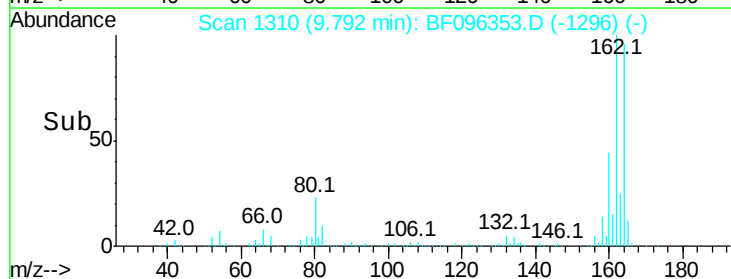
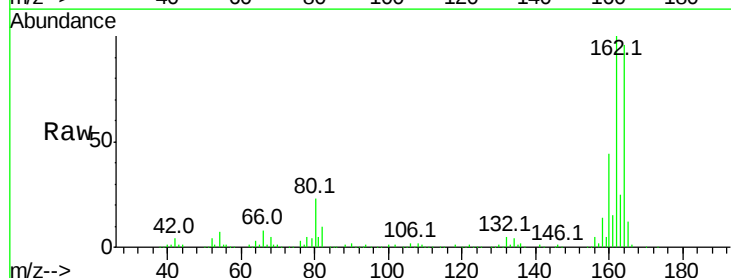
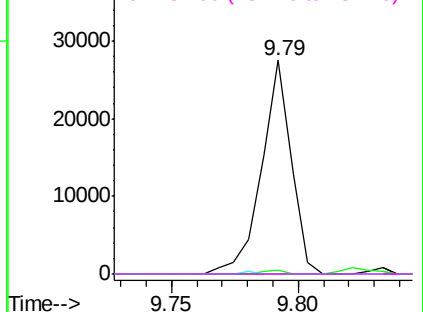
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	25.4	38.0#
89	0.0	46.4	69.6#
182	0.0	1.8	2.6#

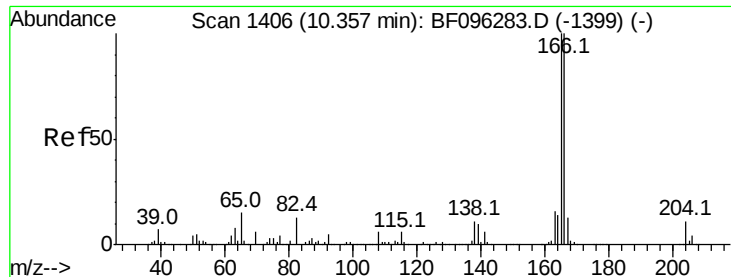
Abundance Ion 165.00 (164.70 to 165.70): E

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

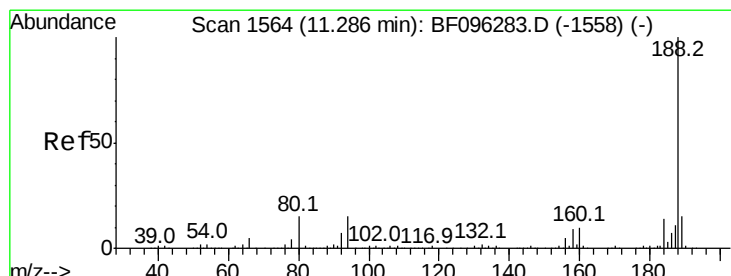
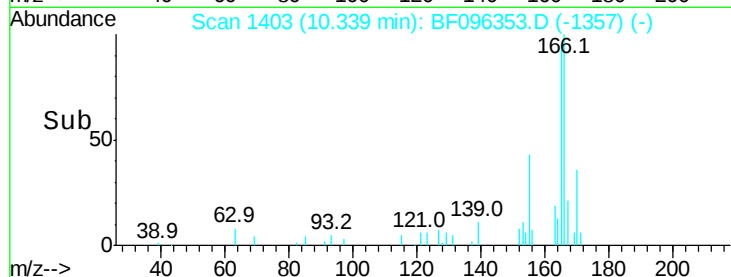
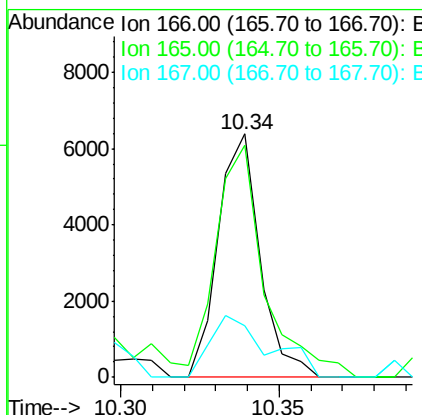
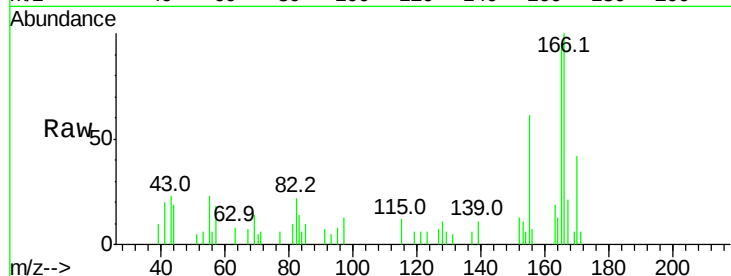




#57
Fluorene
 Concen: Below Cal
 RT: 10.34 min Scan# 1403
 Delta R.T. -0.03 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

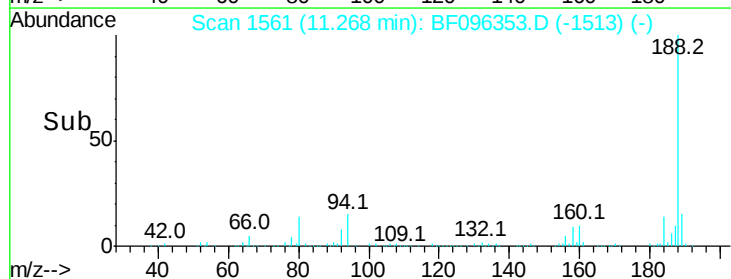
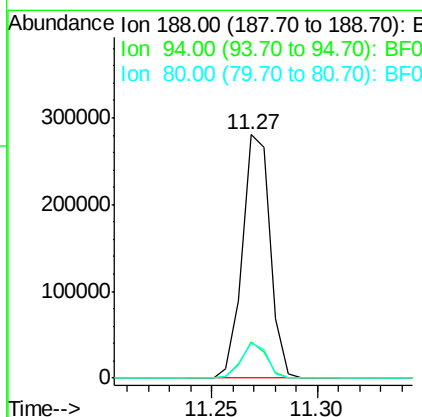
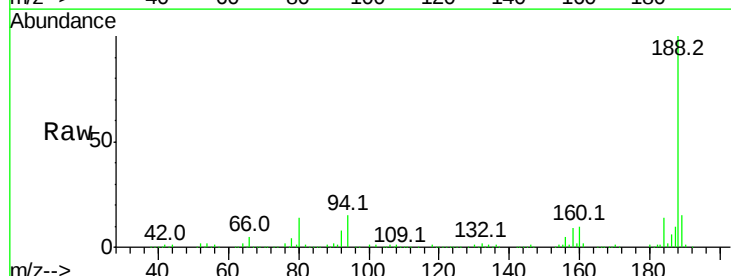
Instrument :
 BNA_F
 ClientSampleId :

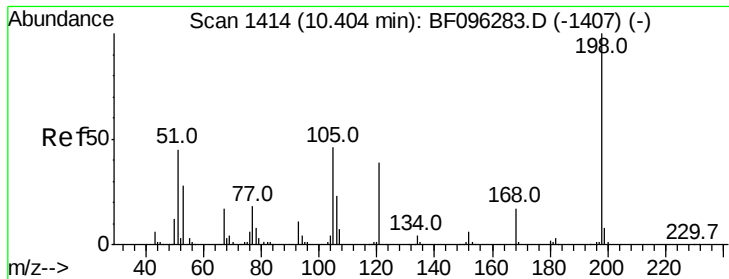
Tot Ion:166 Resp: 5828
 Ion Ratio Lower Upper
 166 100
 165 95.4 78.8 118.2
 167 21.3 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.02 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

Tgt Ion:188 Resp: 254019
 Ion Ratio Lower Upper
 188 100
 94 15.1 9.4 14.2#
 80 14.2 10.2 15.2

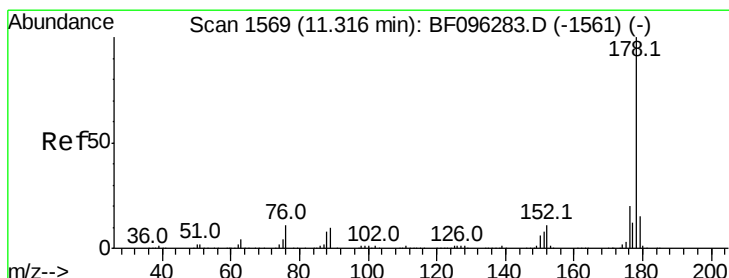
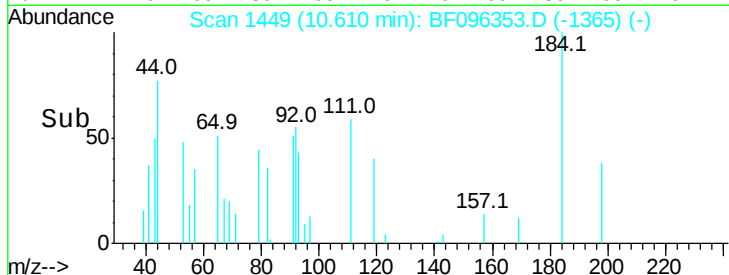
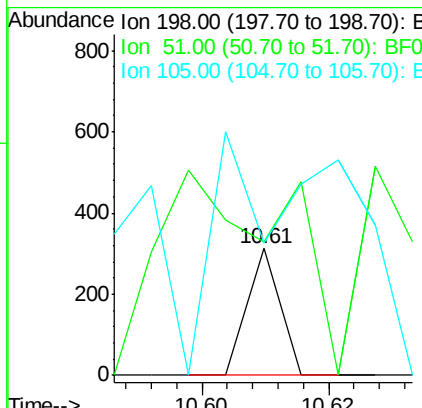
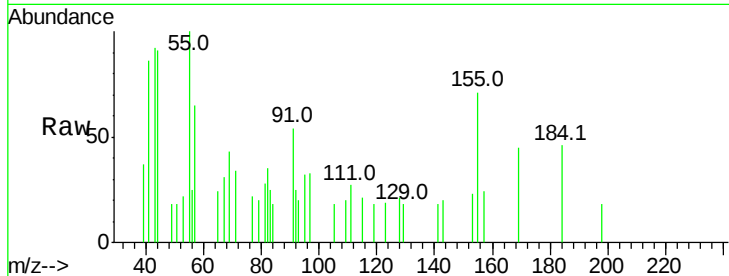




#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.82 ng
 RT: 10.61 min Scan# 1449
 Delta R.T. 0.19 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

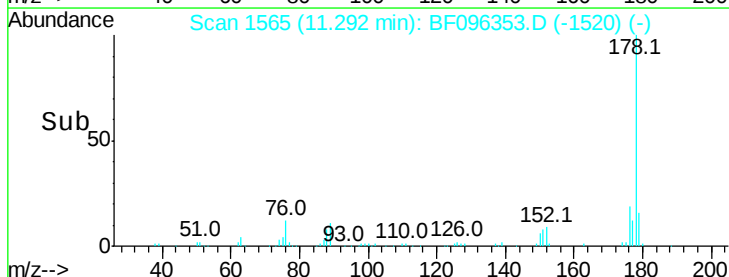
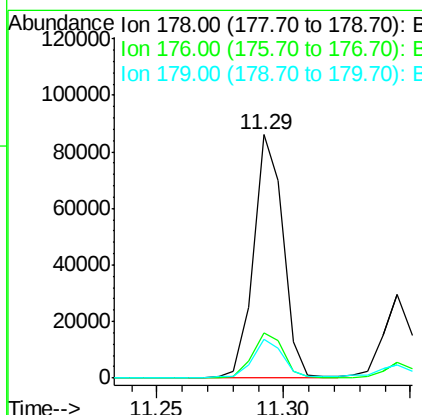
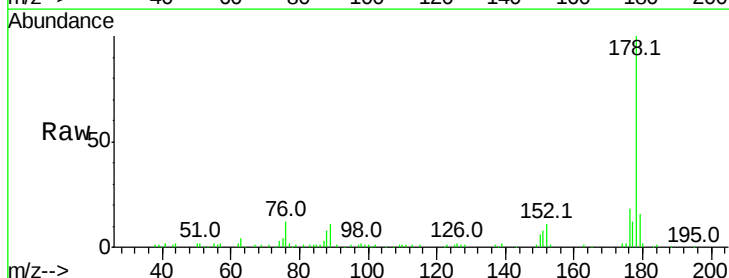
Instrument :
 BNA_F
 ClientSampled :

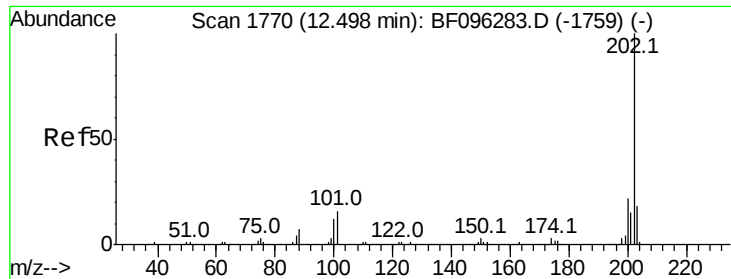
Tot Ion:198 Resp: 110
 Ion Ratio Lower Upper
 198 100
 51 104.8 53.2 93.2#
 105 103.8 45.8 85.8#



#70
 Phenanthrene
 Concen: Below Cal
 RT: 11.29 min Scan# 1565
 Delta R.T. -0.04 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

Tgt Ion:178 Resp: 70402
 Ion Ratio Lower Upper
 178 100
 176 18.4 16.2 24.4
 179 15.9 12.6 19.0





#74

Fluoranthene

Concen: 9.62 ng

RT: 12.48 min Scan# 1767

Delta R.T. -0.01 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampleId :

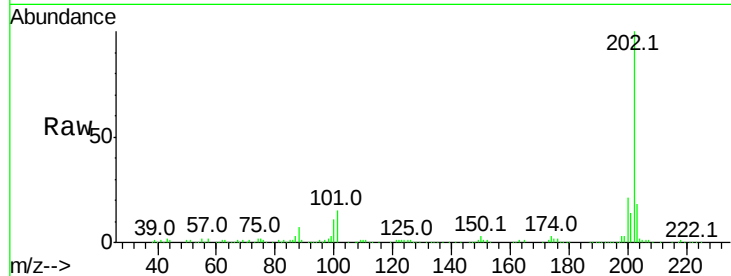
Tot Ion:202 Resp: 135755

Ion Ratio Lower Upper

202 100

101 15.1 0.0 33.2

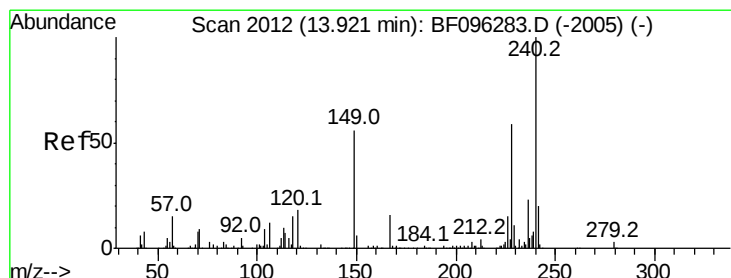
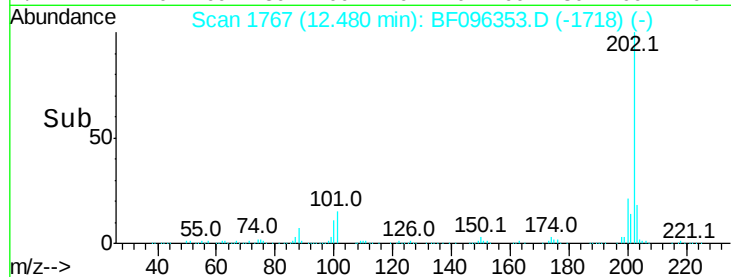
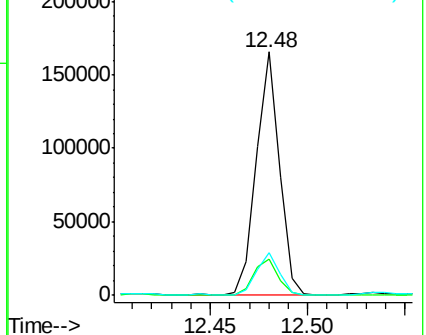
203 17.6 0.0 38.1



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: BF096353.D

Acq: 30 Jun 2017 23:07

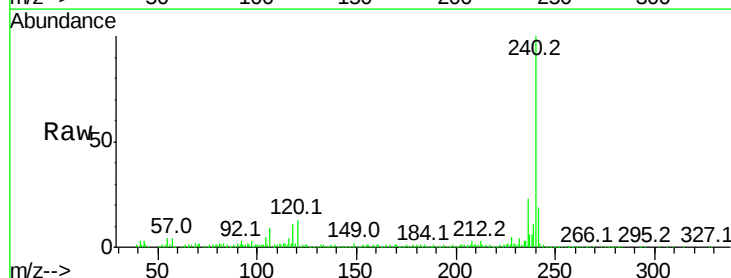
Tgt Ion:240 Resp: 257049

Ion Ratio Lower Upper

240 100

120 13.4 5.8 8.8#

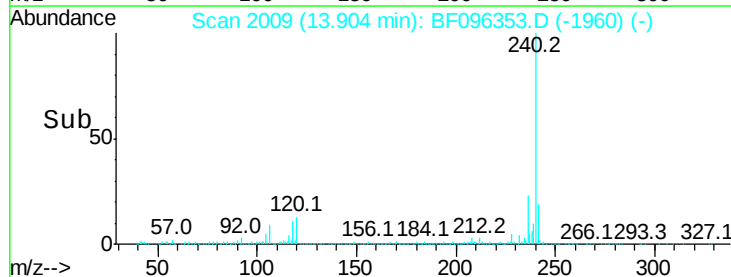
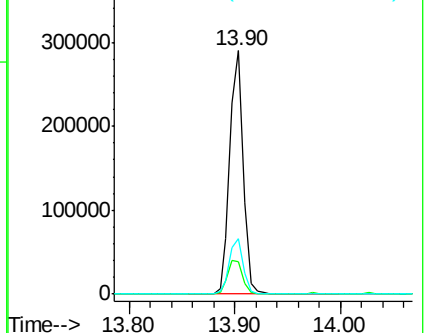
236 23.0 20.5 30.7

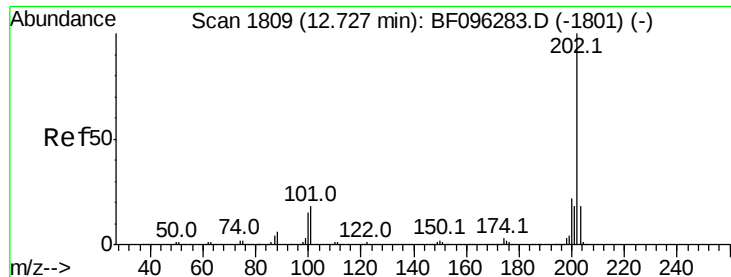


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

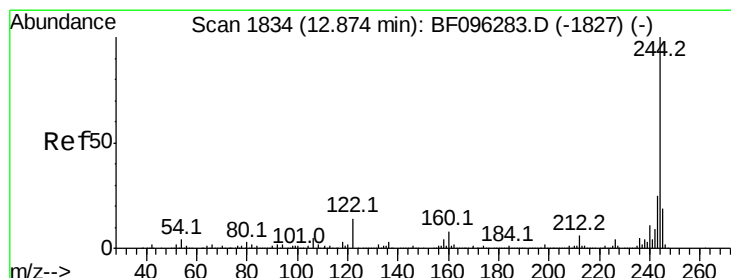
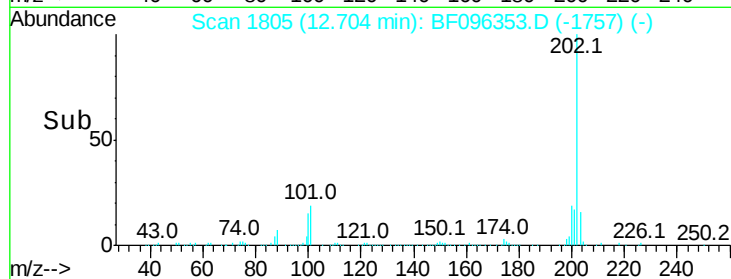
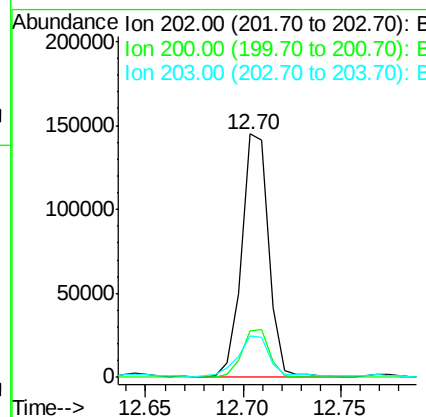
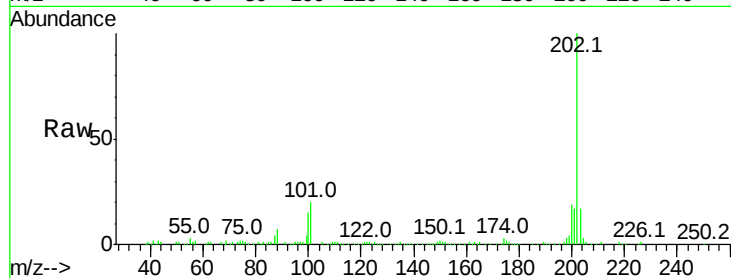




#77
Pvrene
Concen: 6.56 ng
RT: 12.70 min Scan# 1805
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

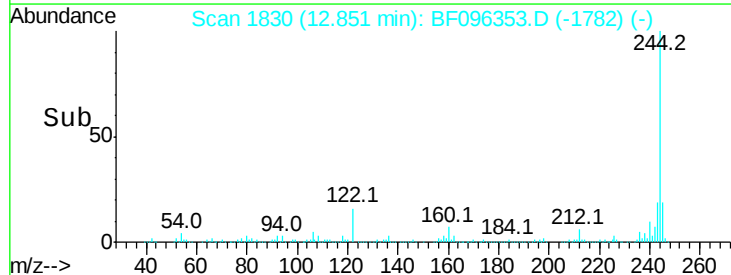
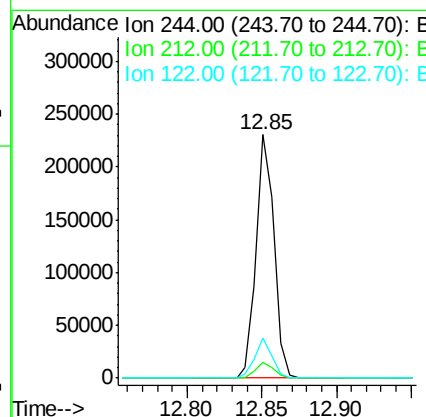
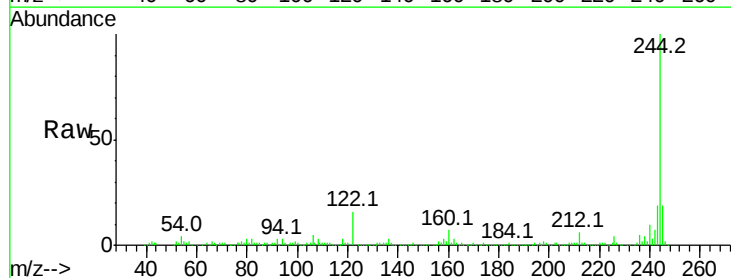
Instrument :
BNA_F
ClientSampleId :

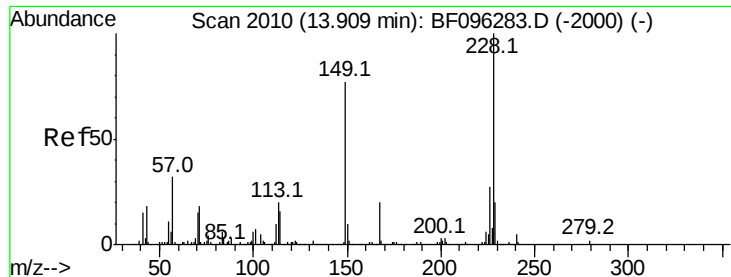
Tot Ion:202 Resp: 138613
Ion Ratio Lower Upper
202 100
200 19.3 17.6 26.4
203 17.0 14.4 21.6



#78
Terphenyl-d14
Concen: 18.43 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Tgt Ion:244 Resp: 189822
Ion Ratio Lower Upper
244 100
212 6.3 6.0 9.0
122 16.4 10.3 15.5#





#80

Benzo(a)anthracene

Concen: 5.23 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.02 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

Instrument :

BNA_F

ClientSampleId :

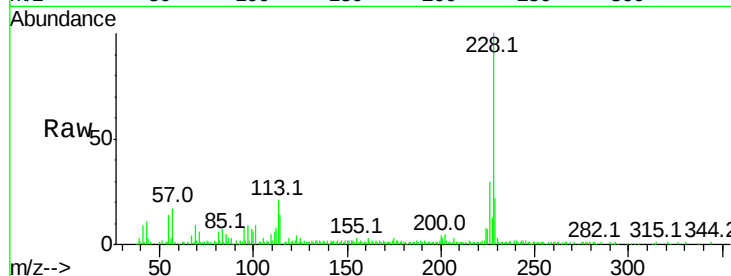
Tot Ion:228 Resp: 81910

Ion Ratio Lower Upper

228 100

226 29.9 22.6 33.8

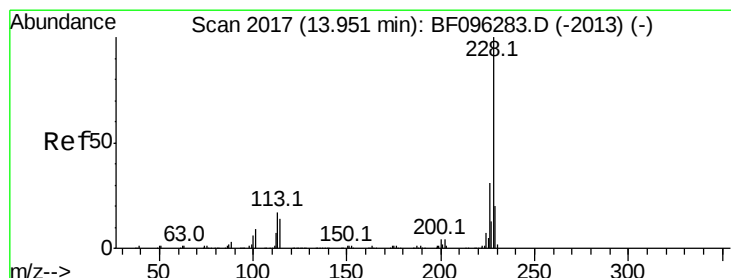
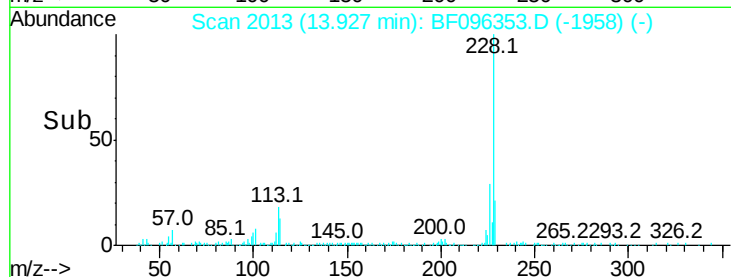
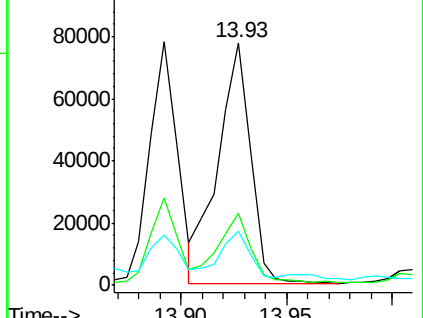
229 22.5 16.3 24.5



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: 5.05 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF096353.D

Acq: 30 Jun 2017 23:07

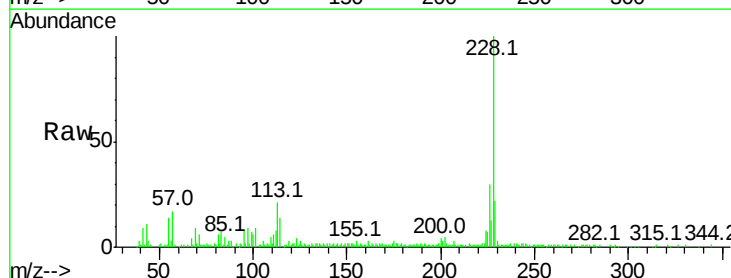
Tgt Ion:228 Resp: 81910

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

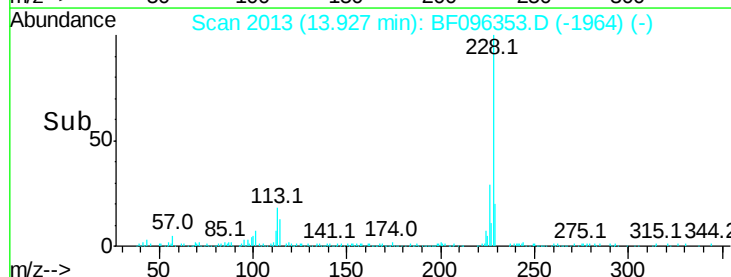
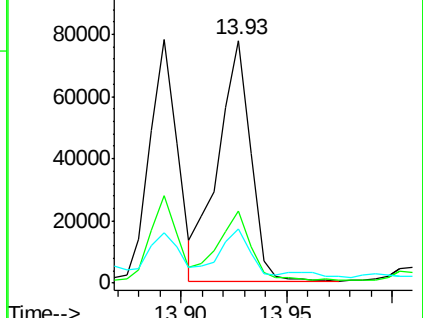
229 22.5 15.8 23.6

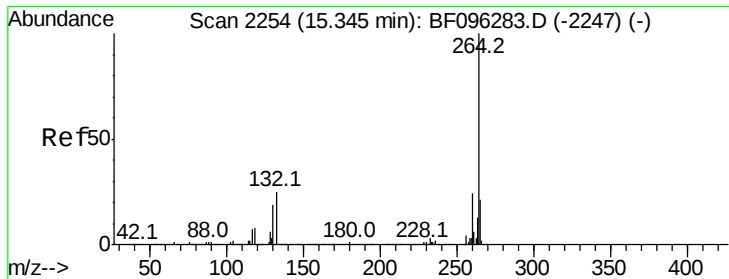


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



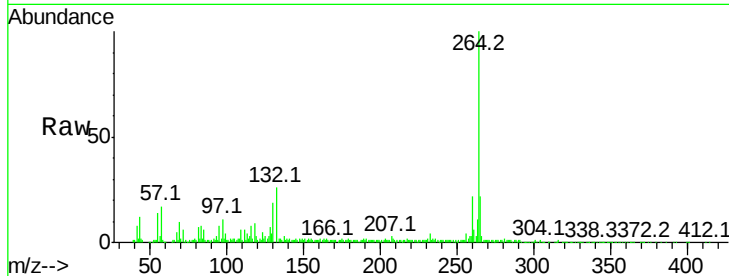


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 2250
Delta R.T. -0.02 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

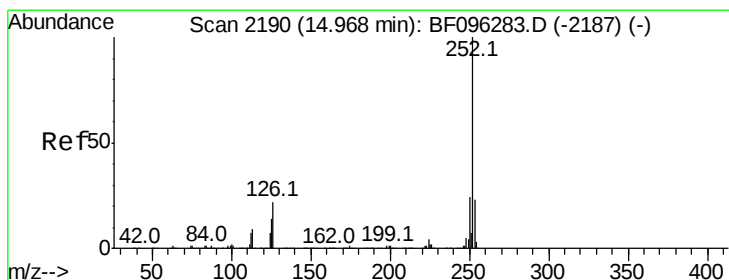
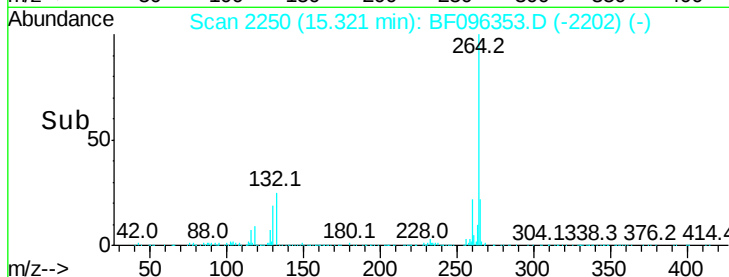
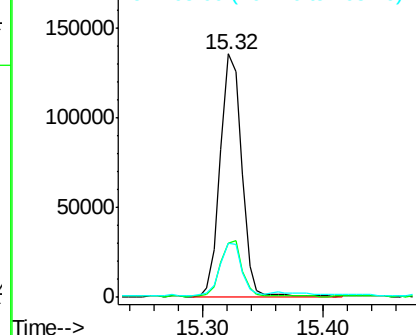
Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 165142

Ion	Ratio	Lower	Upper
264	100		
260	22.4	19.5	29.3
265	22.3	17.2	25.8



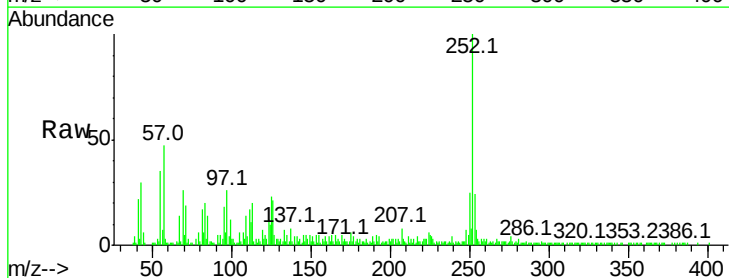
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



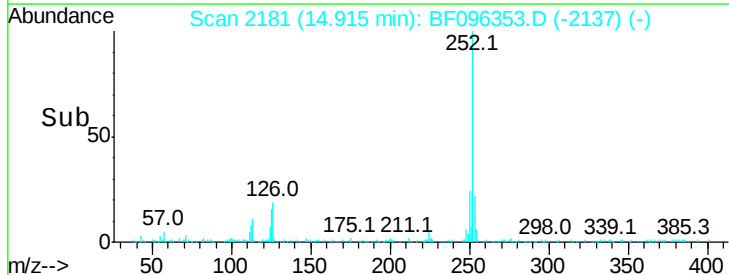
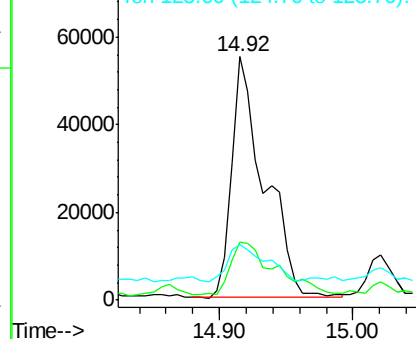
#87
Benzo(b)fluoranthene
Concen: 8.71 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

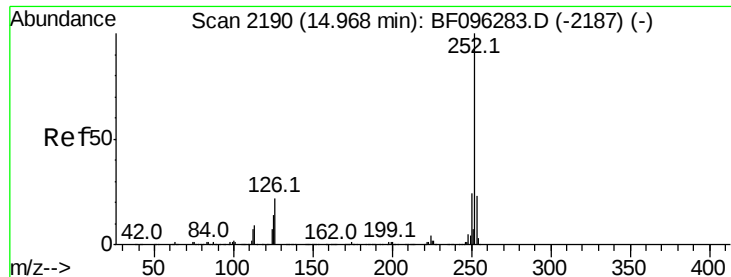
Tgt Ion:252 Resp: 94483

Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	22.6	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

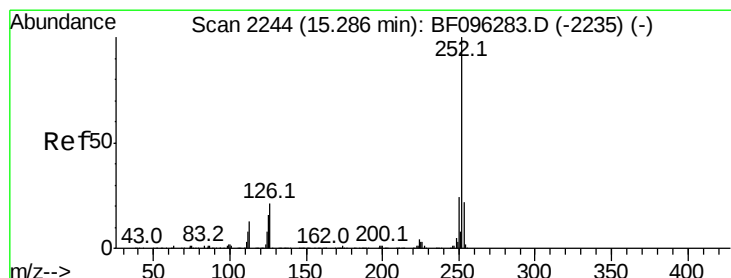
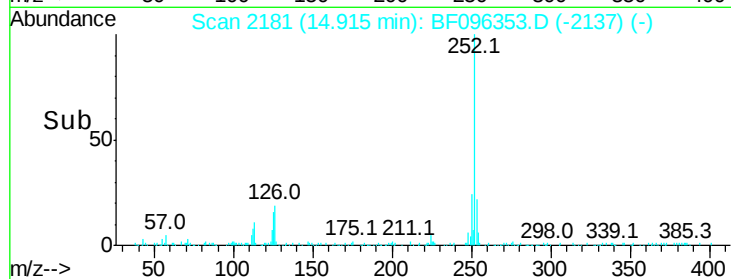
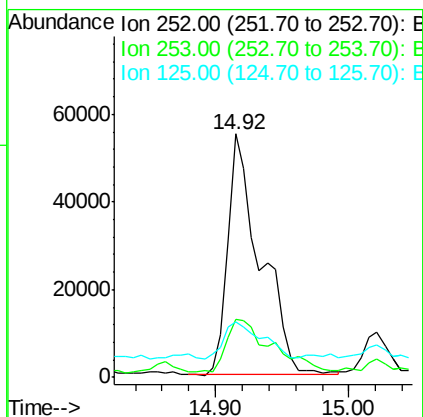
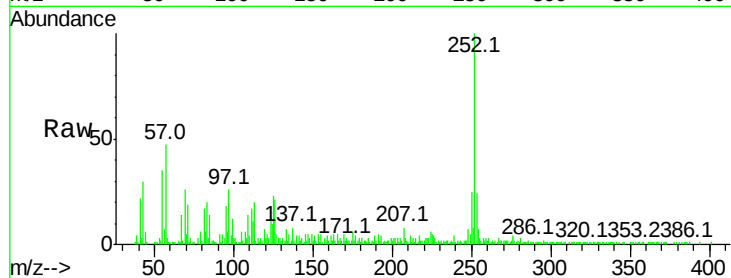




#88
Benzo(k)fluoranthene
Concen: 9.54 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

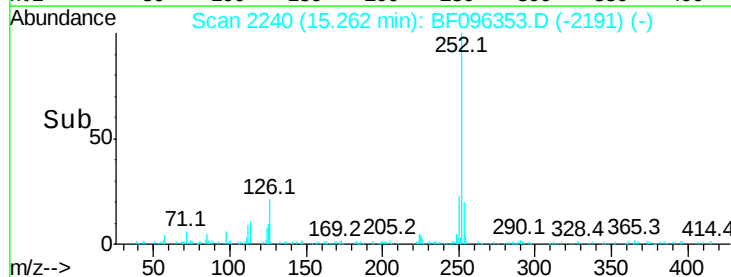
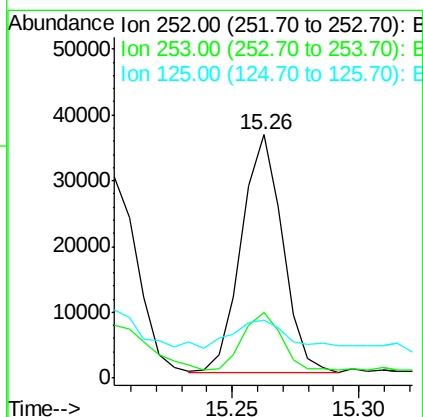
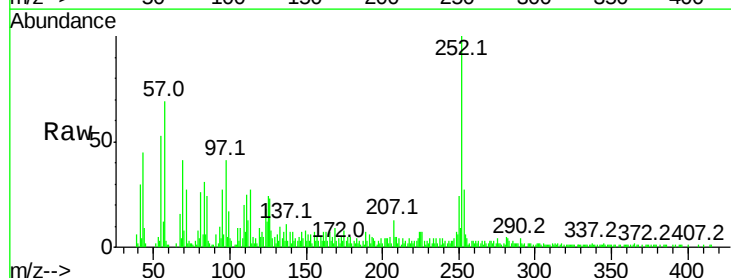
Instrument :
BNA_F
ClientSampleId :

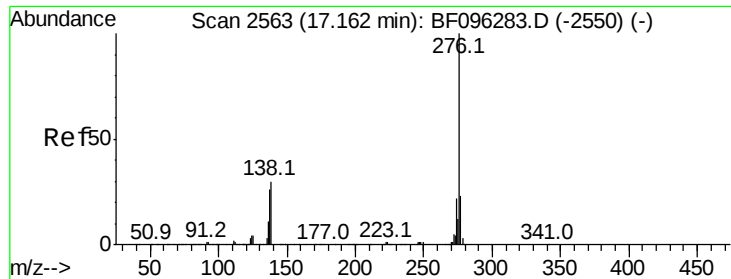
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.4	27.6
125	22.6	13.1	19.7



#89
Benzo(a)pyrene
Concen: 4.24 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF096353.D
Acq: 30 Jun 2017 23:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.5	26.3
125	23.8	11.0	16.4





#91
 Benzo(a,h,i)perylene
 Concen: 3.00 ng
 RT: 17.12 min Scan# 2556
 Delta R.T. -0.01 min
 Lab File: BF096353.D
 Acq: 30 Jun 2017 23:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.2	18.6	28.0
138	33.8	25.4	38.0

