

Data Path : Z:\HPCHEM1\BNA F\DATA\BF063017\
 Data File : BF096350.D
 Acq On : 30 Jun 2017 21:44
 Operator : SJ/MA
 Sample : I3908-04 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 30 23:17:35 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	155859	20.00	ng	-0.02
21) Naphthalene-d8	8.04	136	618063	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	223876	20.00	ng	-0.02
63) Phenanthrene-d10	11.27	188	315395	20.00	ng	-0.01
75) Chrysene-d12	13.90	240	321484	20.00	ng	-0.01
86) Perylene-d12	15.33	264	240207	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.36	112	377508	34.90	ng	-0.02
7) Phenol-d6	6.39	99	464743	35.48	ng	0.00
23) Nitrobenzene-d5	7.31	82	249701	27.97	ng	-0.05
41) 2,4,6-Tribromophenol	10.57	330	71470	40.56	ng	-0.02
44) 2-Fluorobiphenyl	9.12	172	403224	32.98	ng	-0.03
78) Terphenyl-d14	12.86	244	260214	20.20	ng	-0.01

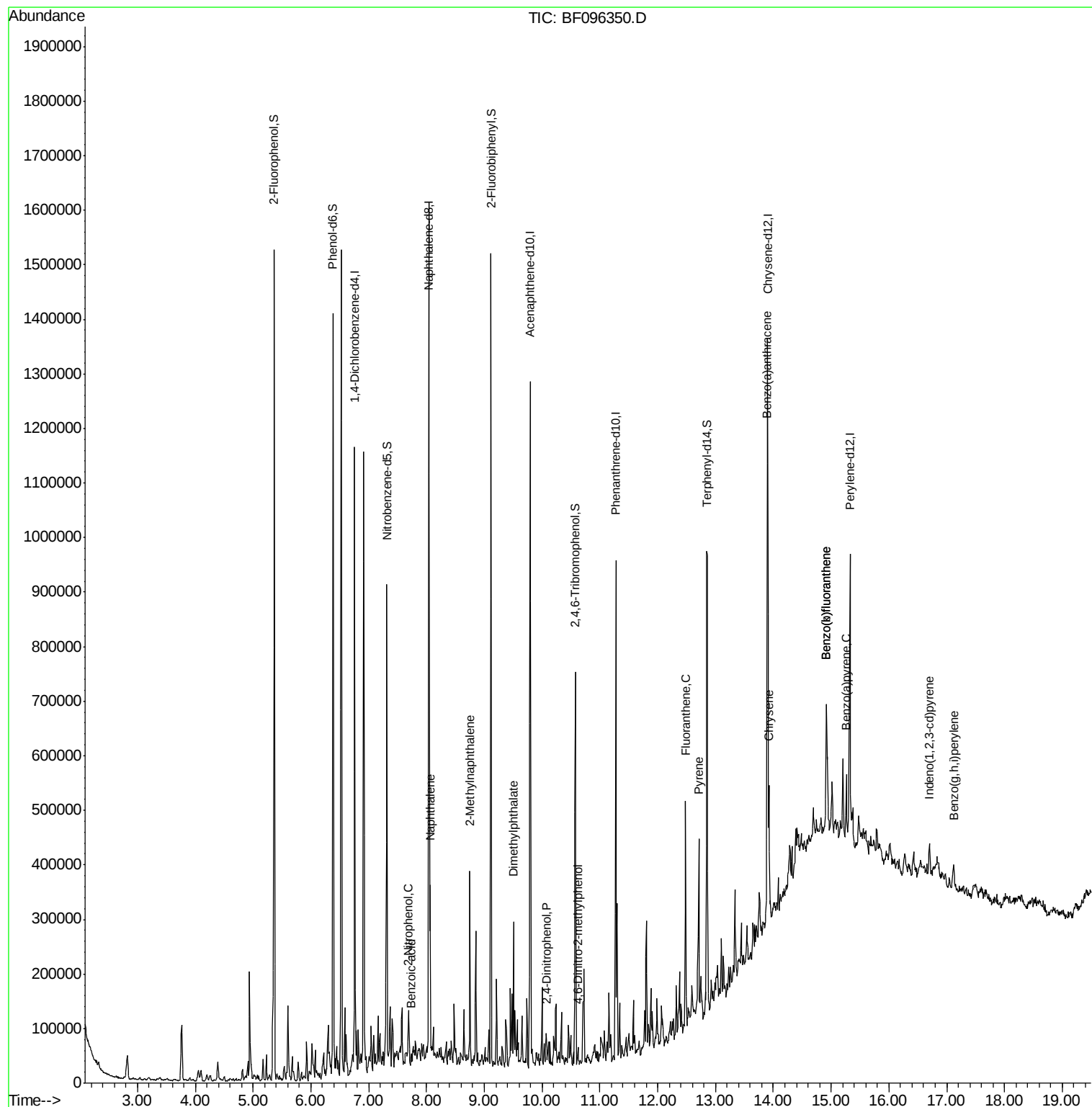
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.30	77	7034	Below Cal	#	63
26) 2-Nitrophenol	7.69	139	313	6.11 ng	#	1
31) Naphthalene	8.06	128	119402	4.01 ng		97
32) Benzoic acid	7.73	122	814	8.89 ng		94
37) 2-Methylnaphthalene	8.75	142	84390	4.36 ng		94
49) Dimethylphthalate	9.51	163	96549	6.03 ng		97
53) 2,4-Dinitrophenol	10.09	184	530	8.04 ng	#	4
57) Fluorene	10.34	166	5869	Below Cal	#	97
60) 4-Chlorophenyl-phenylether	10.06	204	221	Below Cal	#	55
64) 4,6-Dinitro-2-methylphenol	10.61	198	430	8.96 ng	#	35
70) Phenanthrene	11.29	178	101423	Below Cal		99
74) Fluoranthene	12.48	202	140331	8.01 ng		96
77) Pvrene	12.71	202	132095	5.00 ng		97
80) Benzo(a)anthracene	13.89	228	76691	3.91 ng		92
82) Chrysene	13.93	228	92793	4.58 ng		96
85) Indeno(1,2,3-cd)pyrene	16.70	276	35091	2.09 ng		96
87) Benzo(b)fluoranthene	14.92	252	158951	10.07 ng	#	92
88) Benzo(k)fluoranthene	14.92	252	158951	11.03 ng		96
89) Benzo(a)pvrene	15.26	252	51804	3.72 ng	#	88
91) Benzo(a,h,i)perylene	17.12	276	33226	2.93 ng	#	91

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

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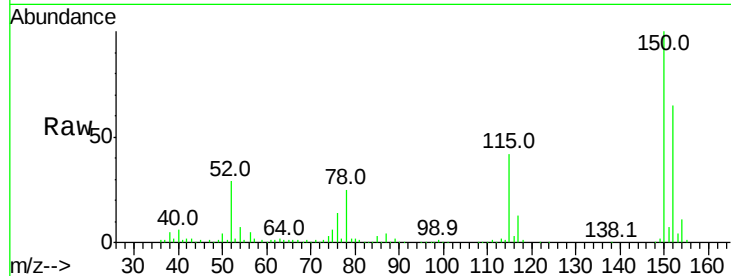


#1

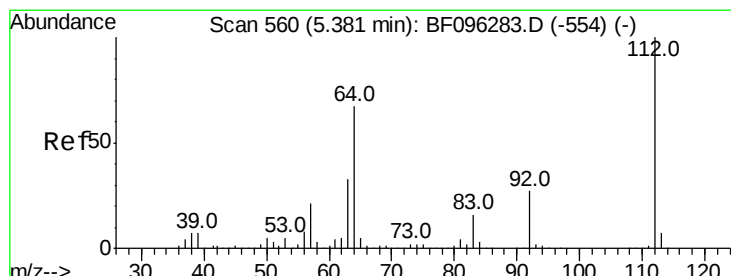
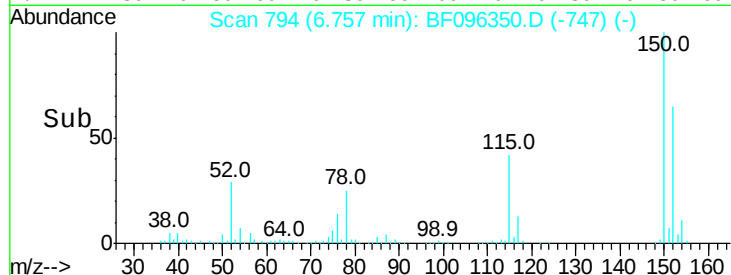
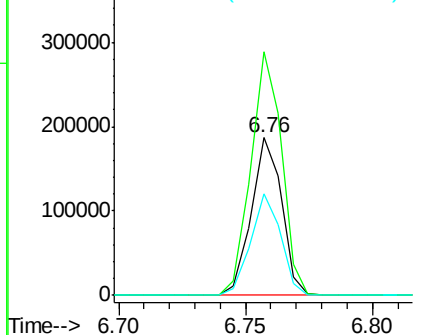
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 794
Delta R.T. -0.02 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	126.2	189.2
115	64.8	52.2	78.2



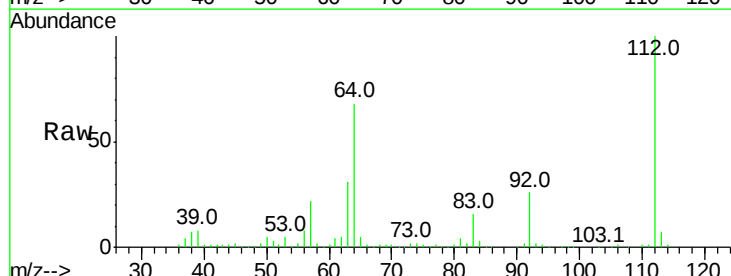
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



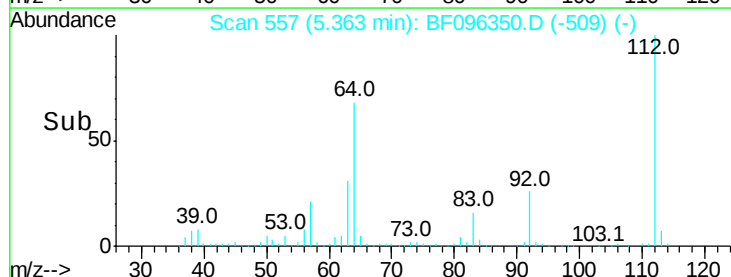
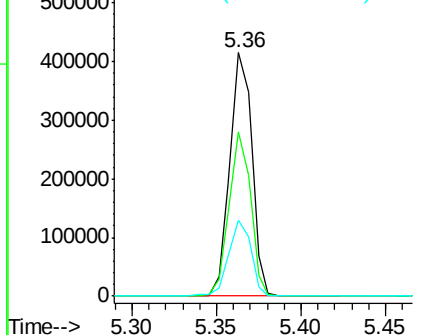
#5

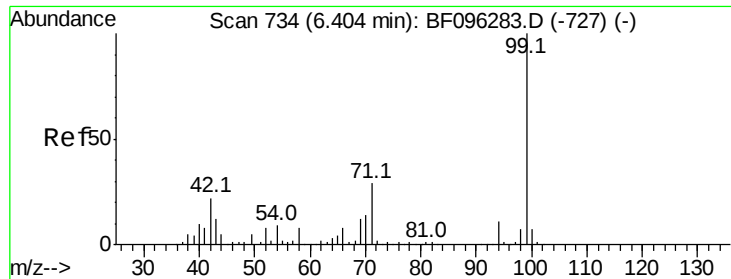
2-Fluorophenol
Concen: 34.90 ng
RT: 5.36 min Scan# 557
Delta R.T. -0.02 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.5	46.0	69.0
63	31.4	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: 35.48 ng

RT: 6.39 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampleId :

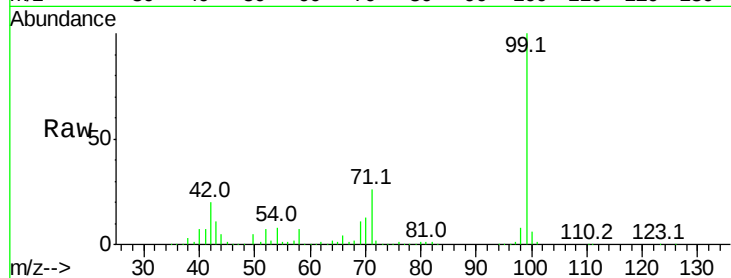
Tot Ion: 99 Resp: 464743

Ion Ratio Lower Upper

99 100

42 19.6 13.5 20.3

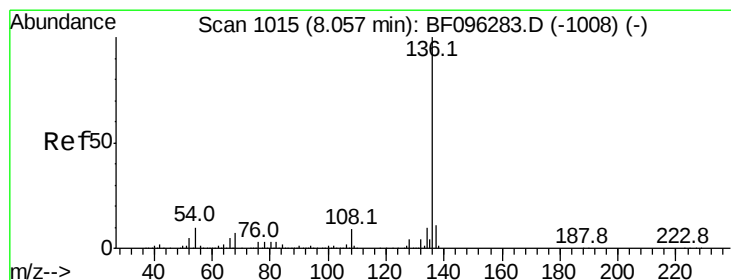
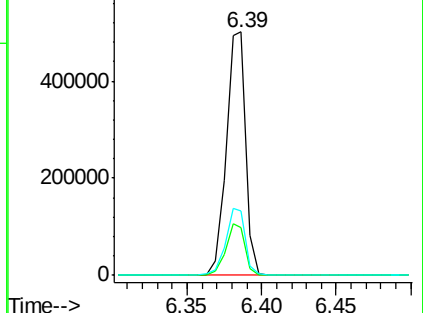
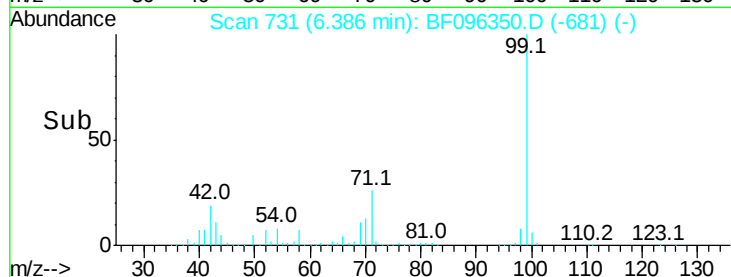
71 26.3 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 1012

Delta R.T. -0.02 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Tgt Ion: 136 Resp: 618063

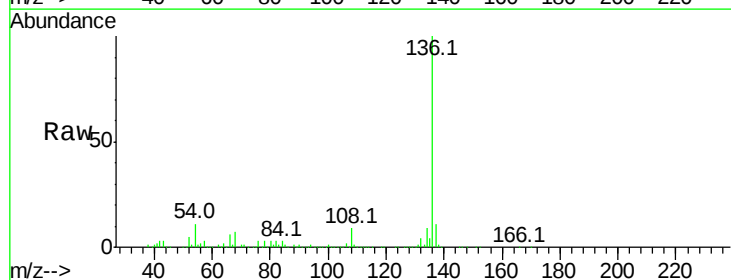
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 11.2 4.9 7.3#

68 6.7 4.1 6.1#

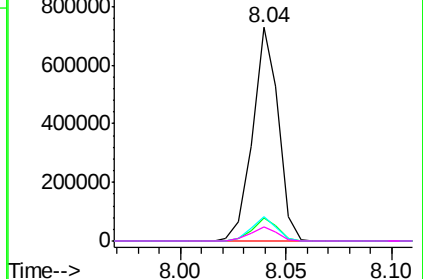
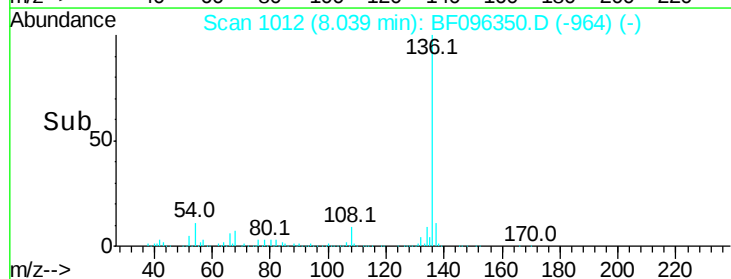


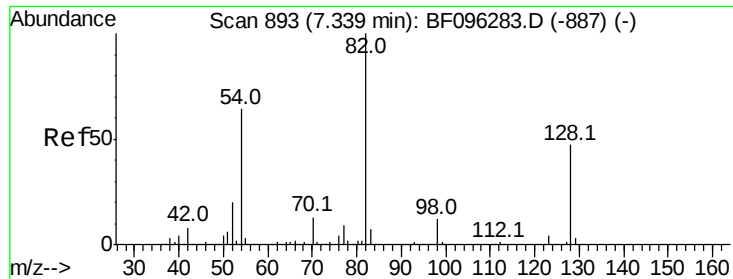
Abundance Ion 136.00 (135.70 to 136.70): E

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

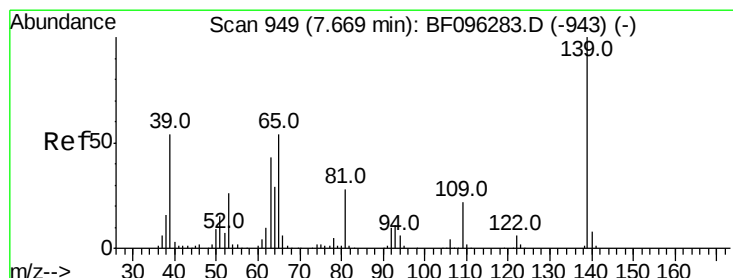
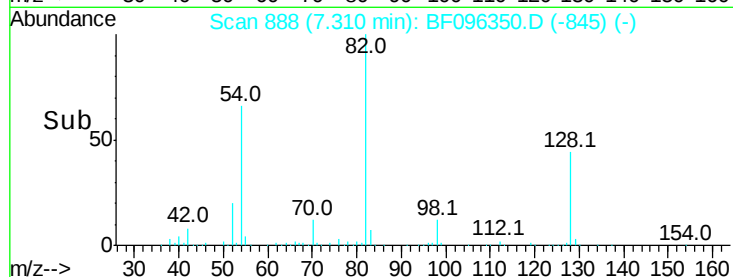
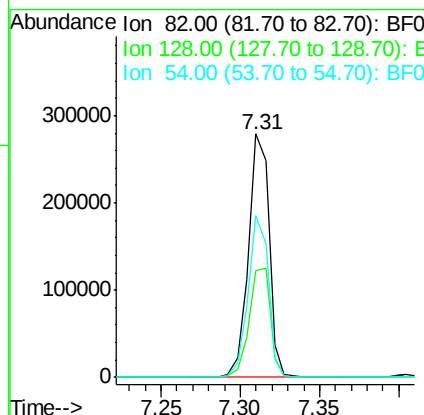
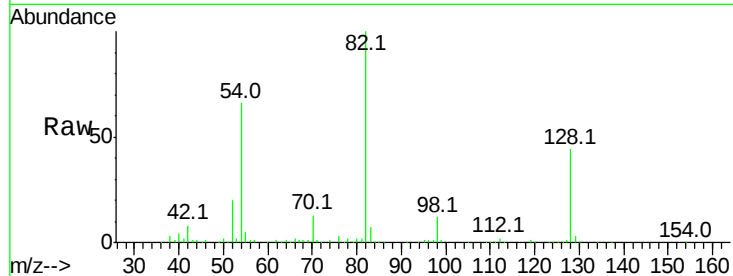




#23
Nitrobenzene-d5
Concen: 27.97 ng
RT: 7.31 min Scan# 888
Delta R.T. -0.05 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

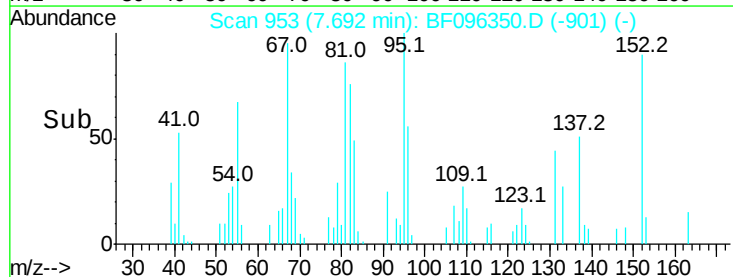
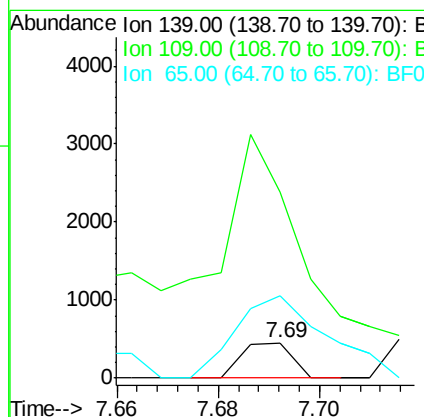
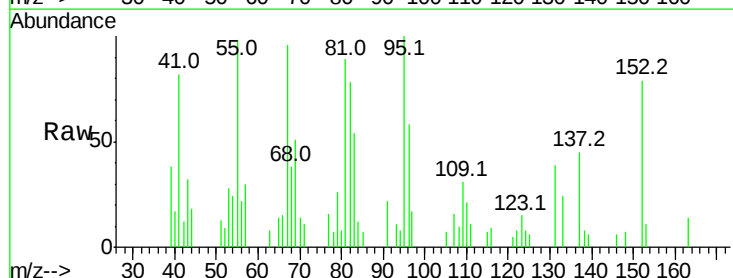
Instrument :
BNA_F
ClientSampleId :

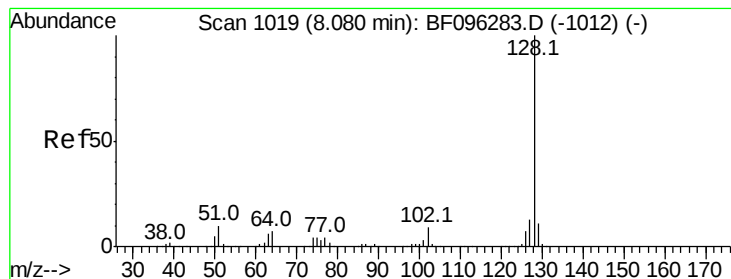
Tot Ion: 82 Resp: 249701
Ion Ratio Lower Upper
82 100
128 43.9 34.0 51.0
54 66.4 42.2 63.2#



#26
2-Nitrophenol
Concen: 6.11 ng
RT: 7.69 min Scan# 953
Delta R.T. 0.01 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Tgt Ion:139 Resp: 313
Ion Ratio Lower Upper
139 100
109 531.9 21.0 31.6#
65 234.2 33.0 49.6#





#31

Naphthalene

Concen: 4.01 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.02 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampleId :

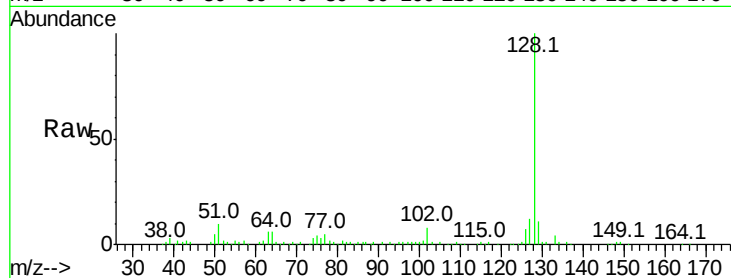
Tot Ion:128 Resp: 119402

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.6

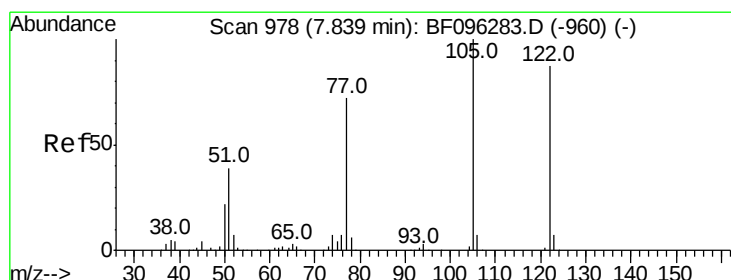
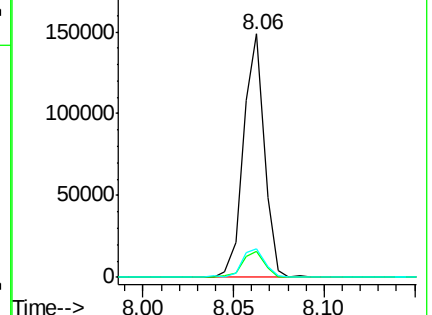
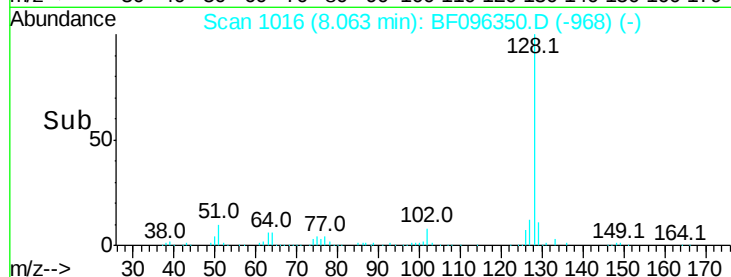
127 11.6 10.8 16.2



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: 8.89 ng

RT: 7.73 min Scan# 959

Delta R.T. -0.16 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

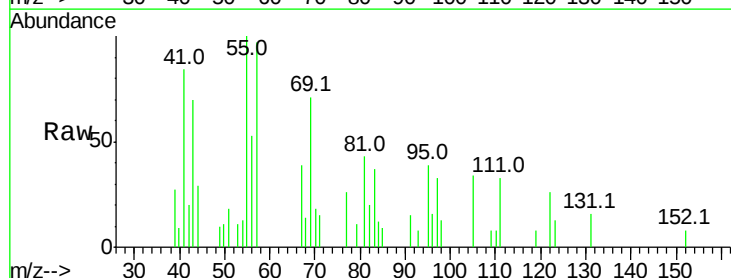
Tgt Ion:122 Resp: 814

Ion Ratio Lower Upper

122 100

105 130.1 103.3 143.3

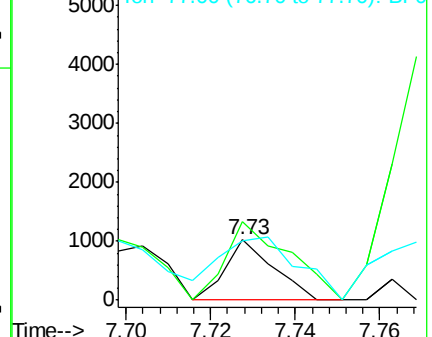
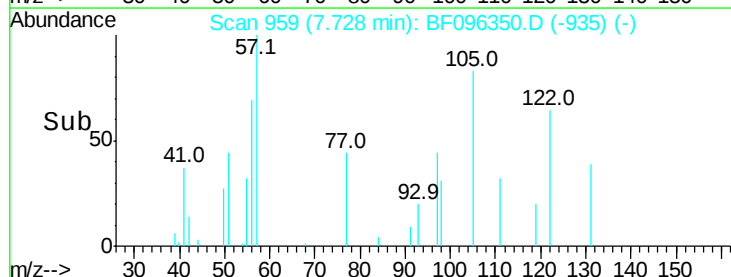
77 99.3 73.7 113.7

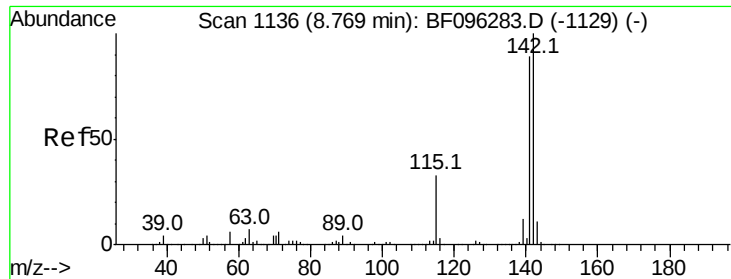


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

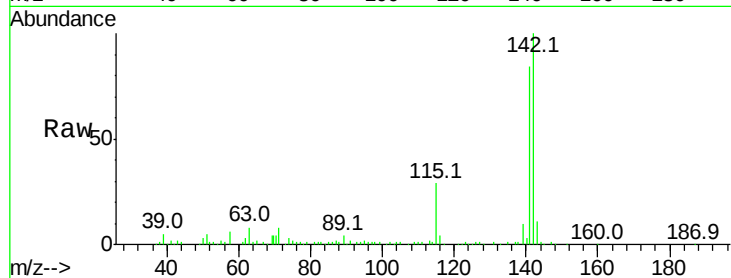




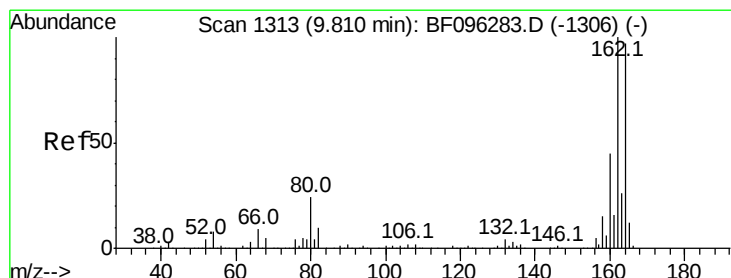
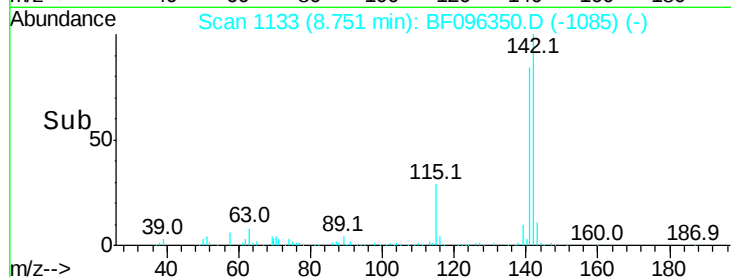
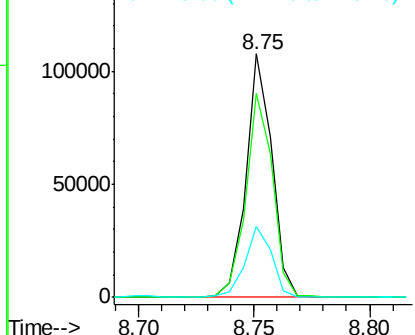
#37
 2-Methylnaphthalene
 Concen: 4.36 ng
 RT: 8.75 min Scan# 1133
 Delta R.T. -0.02 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	83.8	71.3	106.9
115	29.3	27.1	40.7

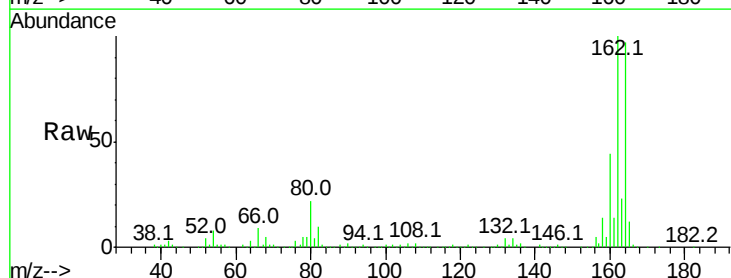


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

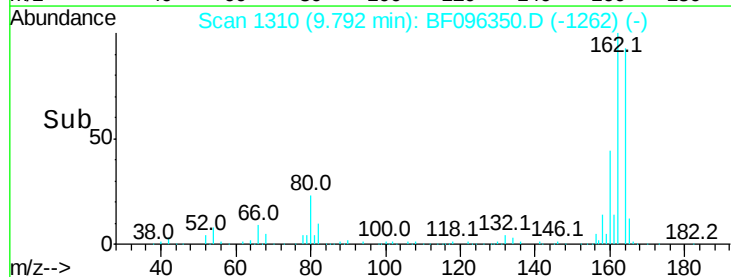
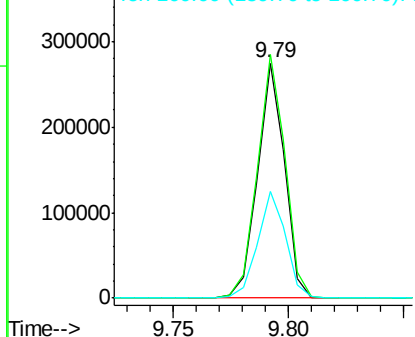


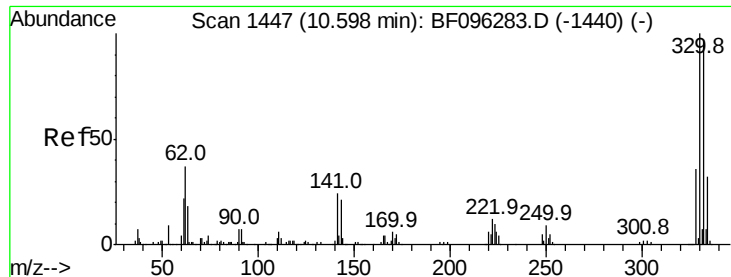
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.02 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	45.1	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

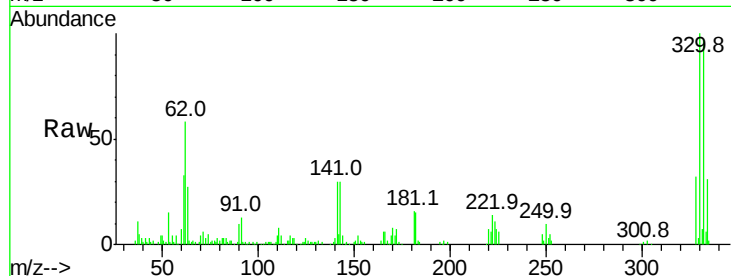




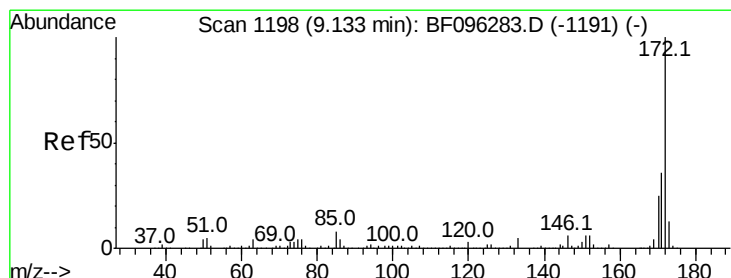
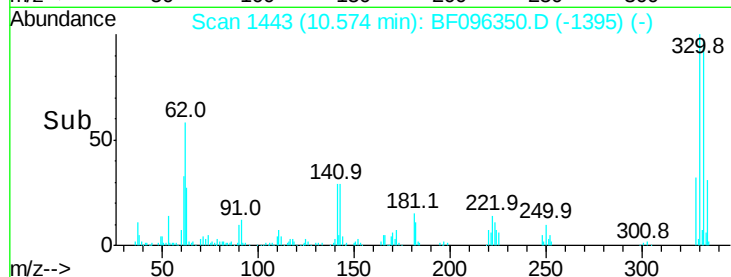
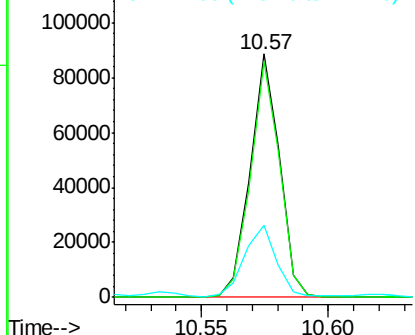
#41
 2,4,6-Tribromophenol
 Concen: 40.56 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. -0.02 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 71470
 Ion Ratio Lower Upper
 330 100
 332 96.3 76.6 115.0
 141 31.6 31.4 47.2

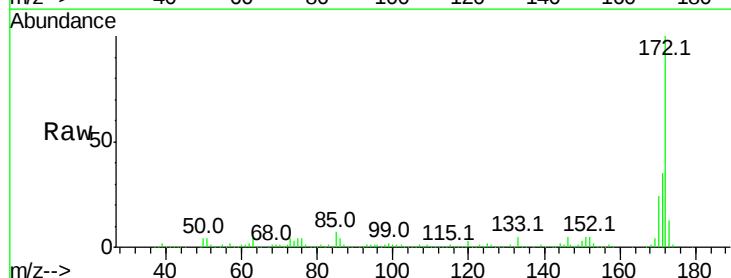


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

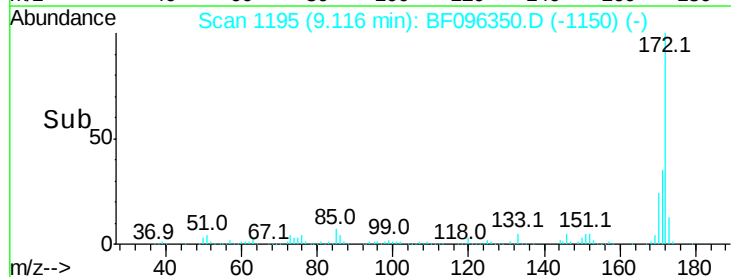
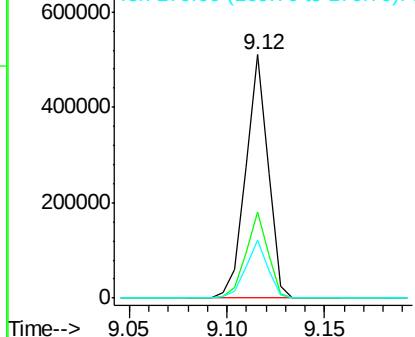


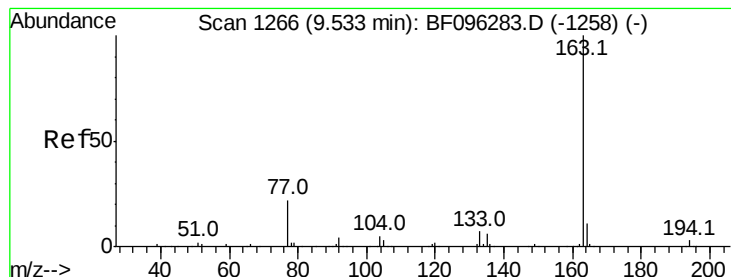
#44
 2-Fluorobiphenyl
 Concen: 32.98 ng
 RT: 9.12 min Scan# 1195
 Delta R.T. -0.03 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Tgt Ion:172 Resp: 403224
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.6 44.4
 170 23.8 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: 6.03 ng

RT: 9.51 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampleId :

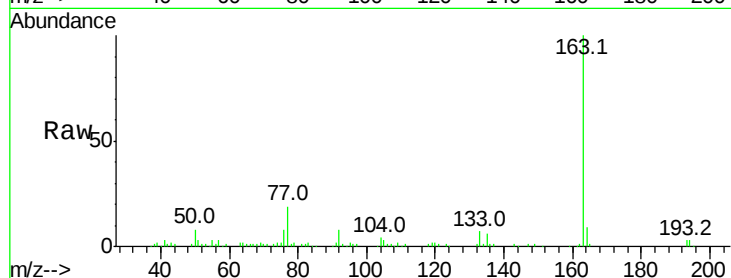
Tot Ion:163 Resp: 96549

Ion Ratio Lower Upper

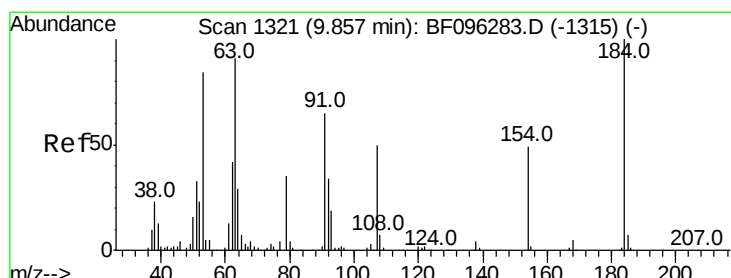
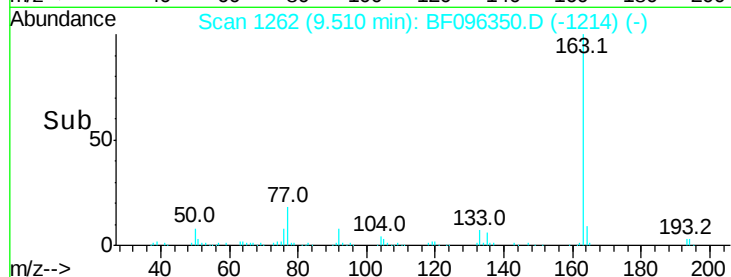
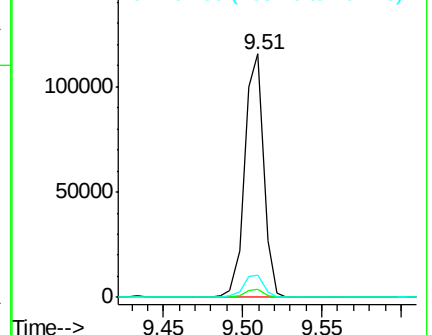
163 100

194 3.2 2.6 4.0

164 9.0 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: 8.04 ng

RT: 10.09 min Scan# 1360

Delta R.T. 0.21 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

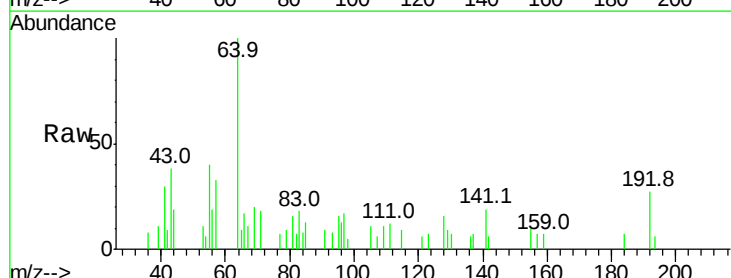
Tgt Ion:184 Resp: 530

Ion Ratio Lower Upper

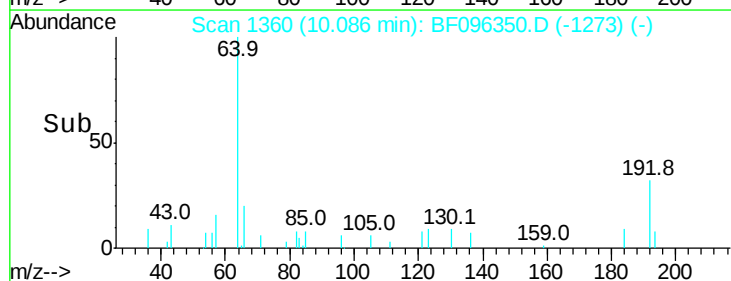
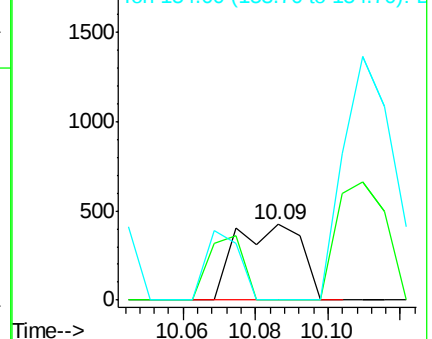
184 100

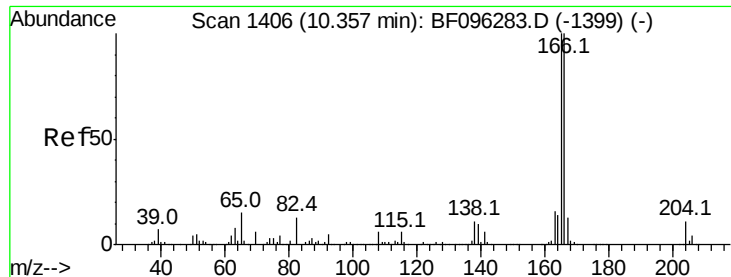
63 0.0 62.7 94.1#

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

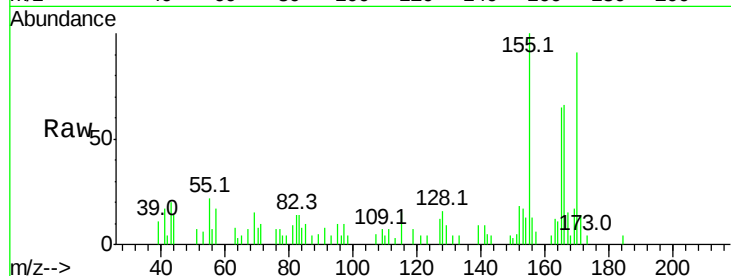




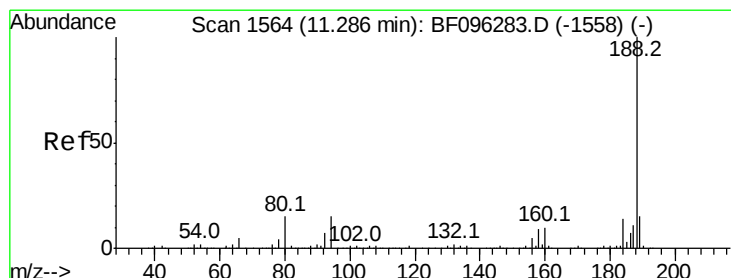
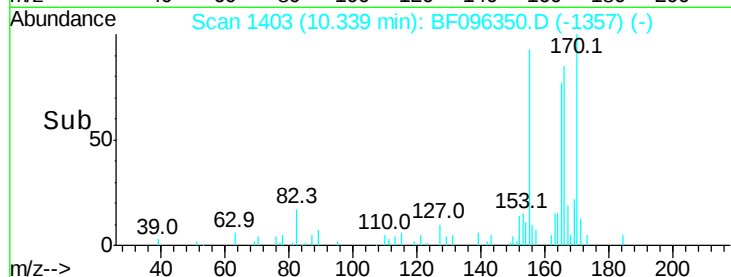
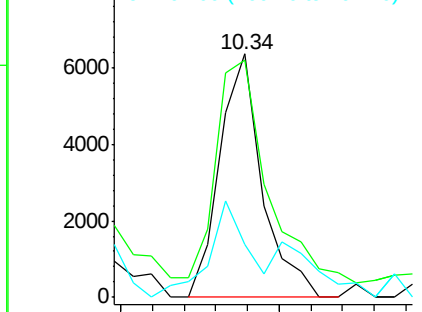
#57
Fluorene
 Concen: Below Cal
 RT: 10.34 min Scan# 1403
 Delta R.T. -0.03 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 5869
 Ion Ratio Lower Upper
 166 100
 165 97.5 78.8 118.2
 167 21.9 10.6 16.0#

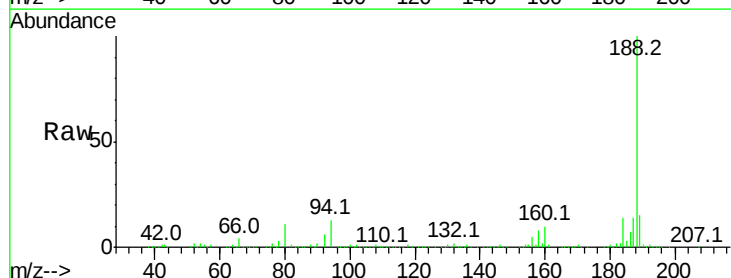


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

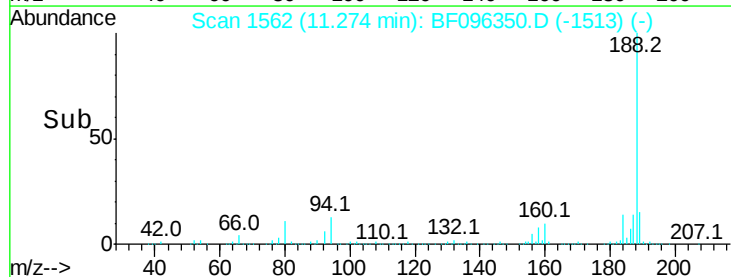
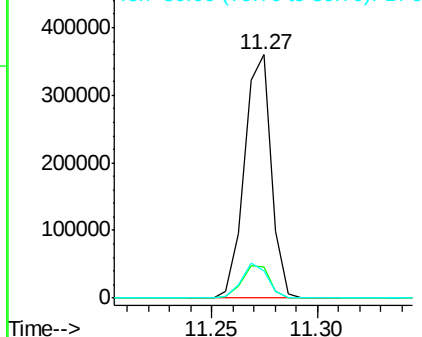


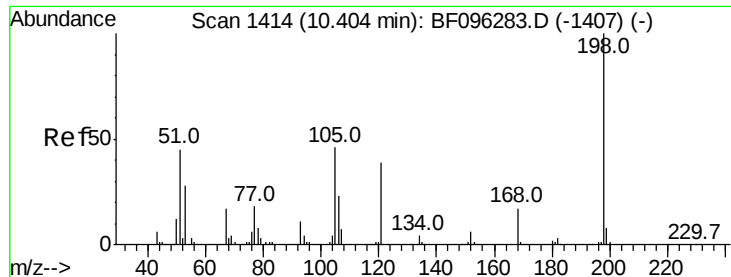
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: BF096350.D
 Acq: 30 Jun 2017 21:44

Tgt Ion:188 Resp: 315395
 Ion Ratio Lower Upper
 188 100
 94 12.8 9.4 14.2
 80 11.5 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

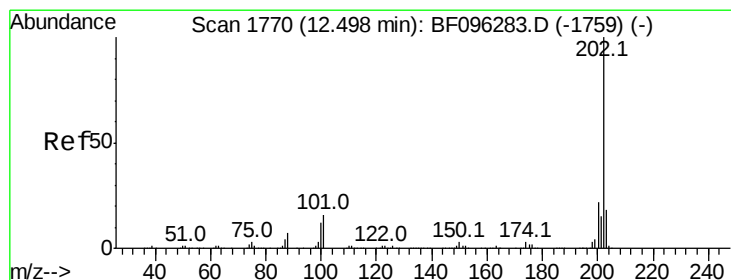
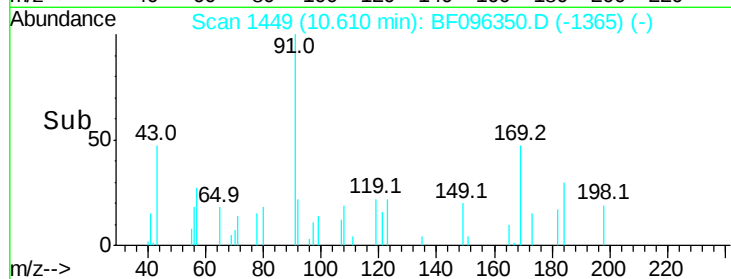
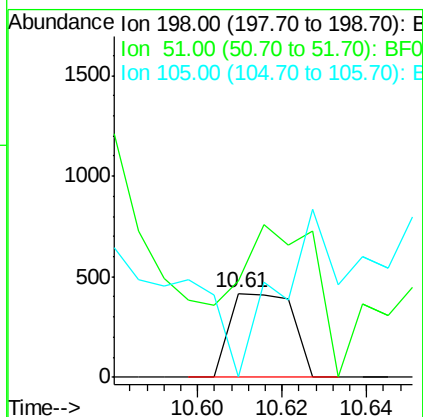
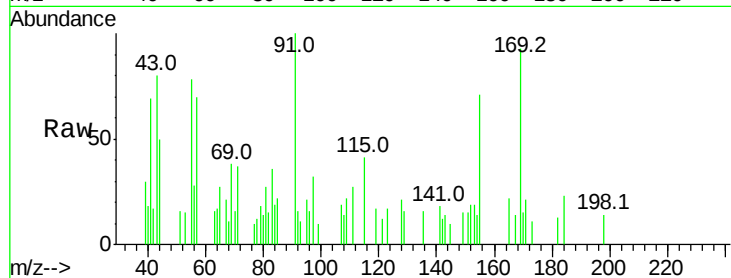




#64
4,6-Dinitro-2-methylphenol
Concen: 8.96 ng
RT: 10.61 min Scan# 1449
Delta R.T. 0.19 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

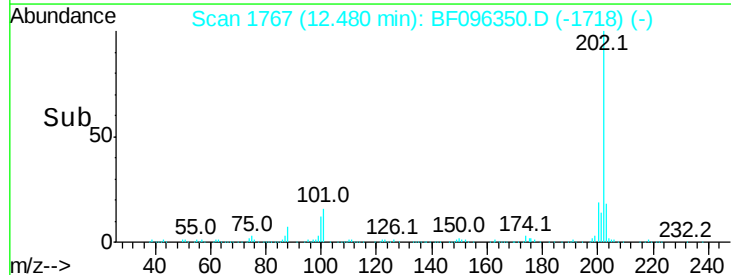
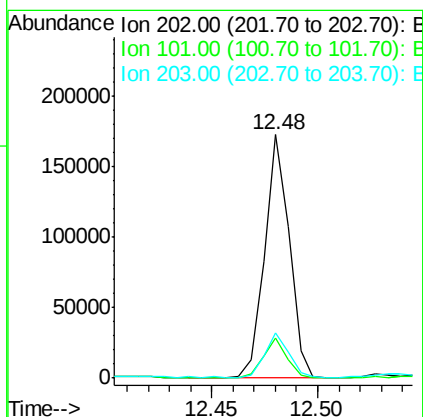
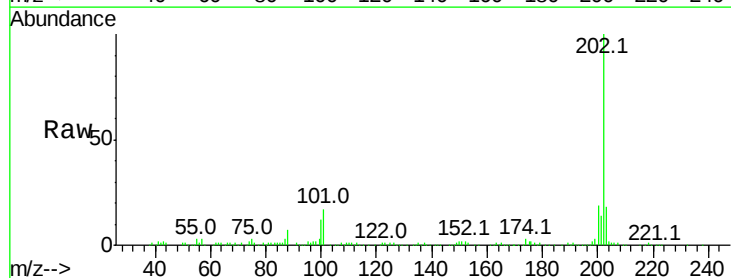
Instrument :
BNA_F
ClientSampled :

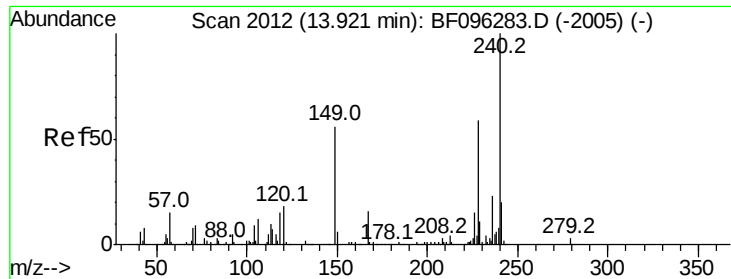
Tot Ion:198 Resp: 430
Ion Ratio Lower Upper
198 100
51 114.6 53.2 93.2#
105 0.0 45.8 85.8#



#74
Fluoranthene
Concen: 8.01 ng
RT: 12.48 min Scan# 1767
Delta R.T. -0.01 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Tgt Ion:202 Resp: 140331
Ion Ratio Lower Upper
202 100
101 16.6 0.0 33.2
203 18.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampled :

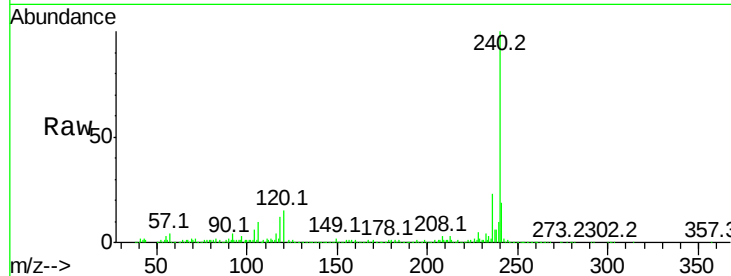
Tot Ion:240 Resp: 321484

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

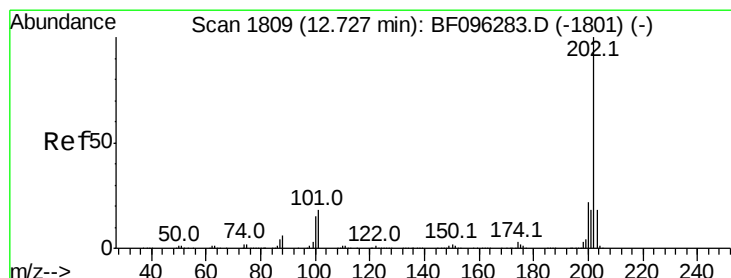
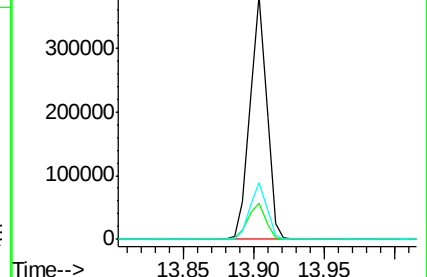
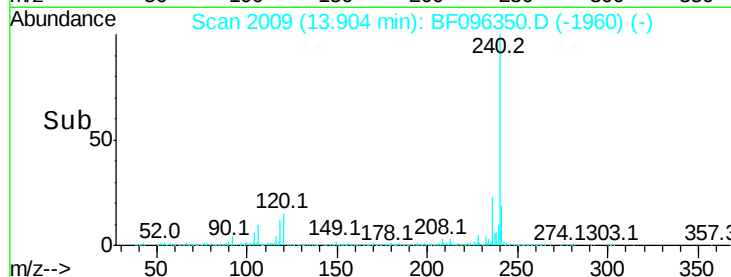
236 23.3 20.5 30.7



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: 5.00 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

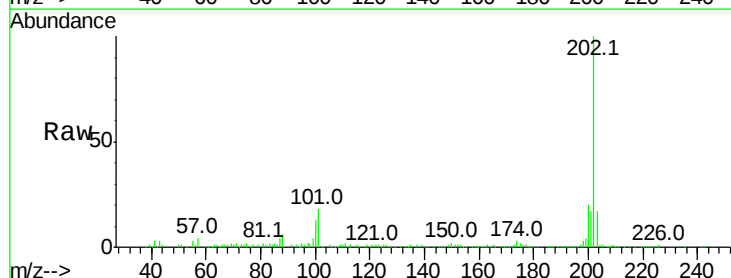
Tgt Ion:202 Resp: 132095

Ion Ratio Lower Upper

202 100

200 20.5 17.6 26.4

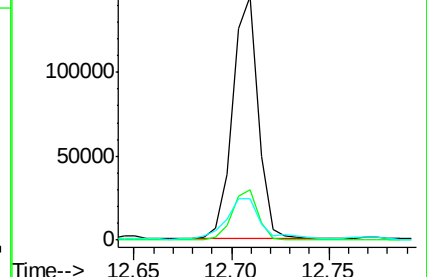
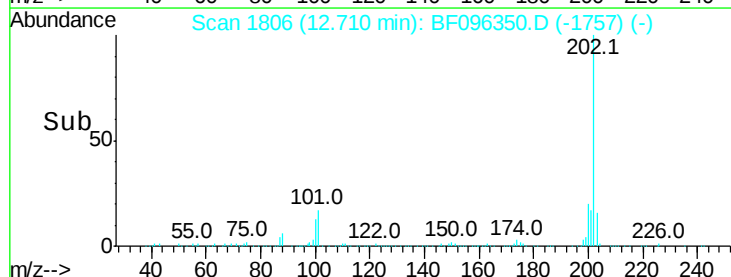
203 16.8 14.4 21.6

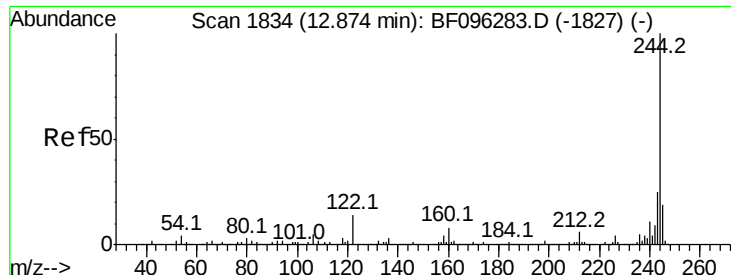


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 20.20 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampleId :

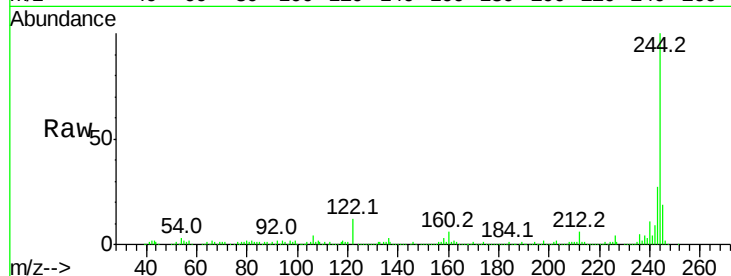
Tot Ion:244 Resp: 260214

Ion Ratio Lower Upper

244 100

212 5.9 6.0 9.0#

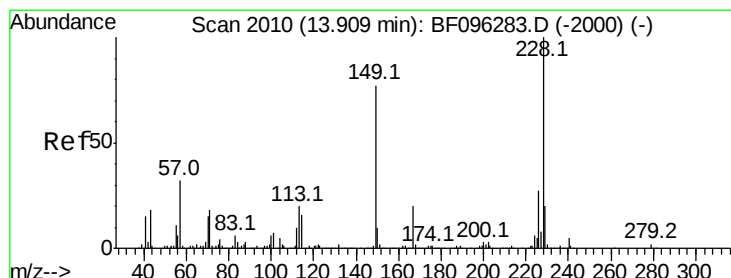
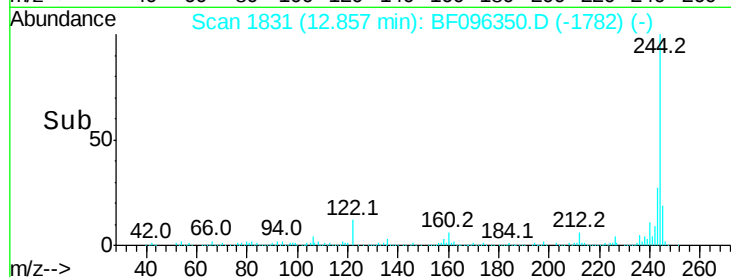
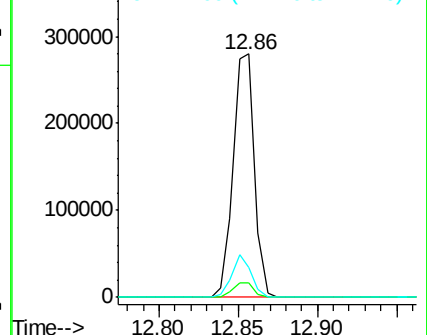
122 12.2 10.3 15.5



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: 3.91 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

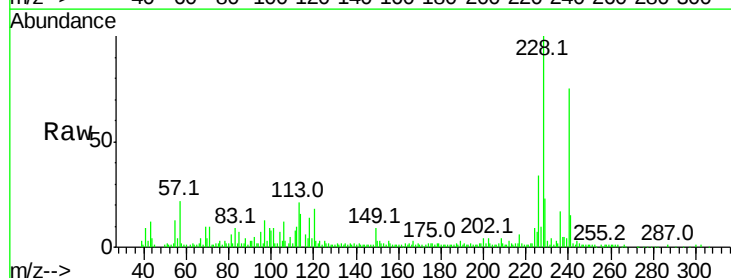
Tgt Ion:228 Resp: 76691

Ion Ratio Lower Upper

228 100

226 33.7 22.6 33.8

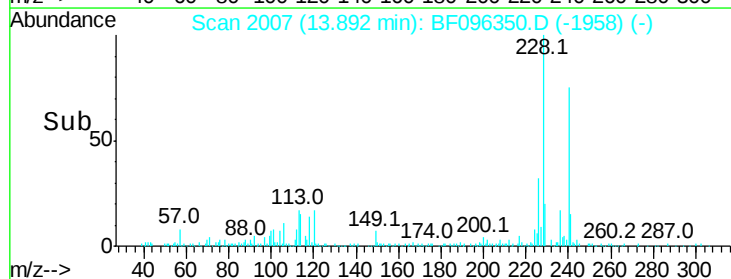
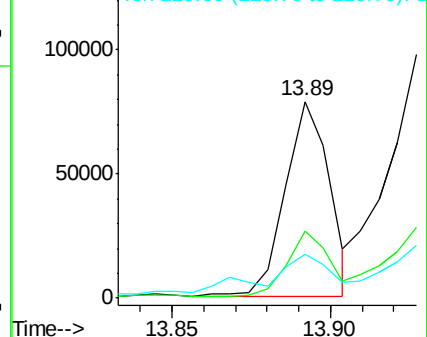
229 22.5 16.3 24.5

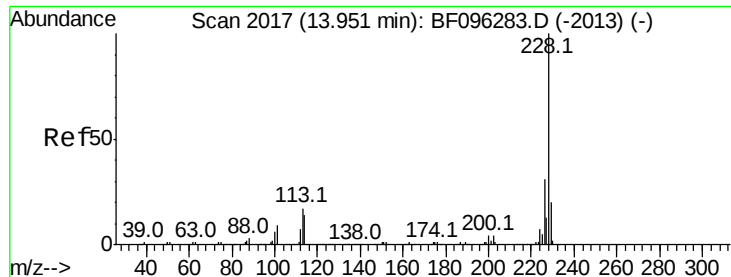


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.58 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampled :

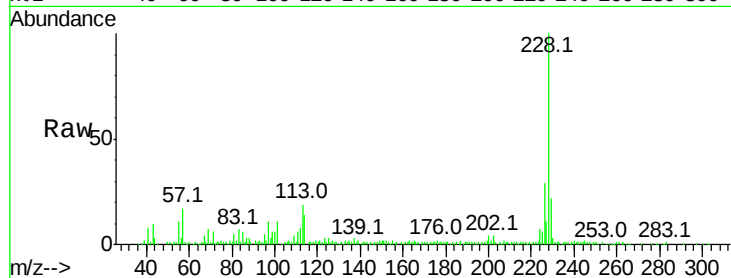
Tot Ion:228 Resp: 92793

Ion Ratio Lower Upper

228 100

226 28.9 24.9 37.3

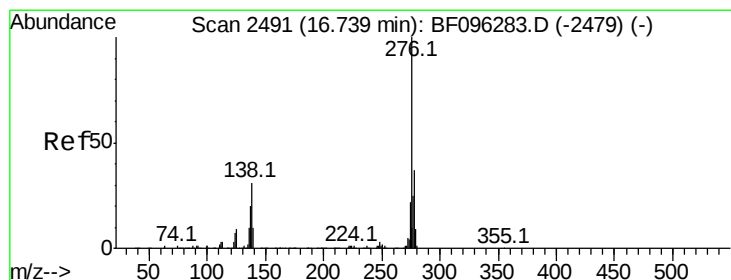
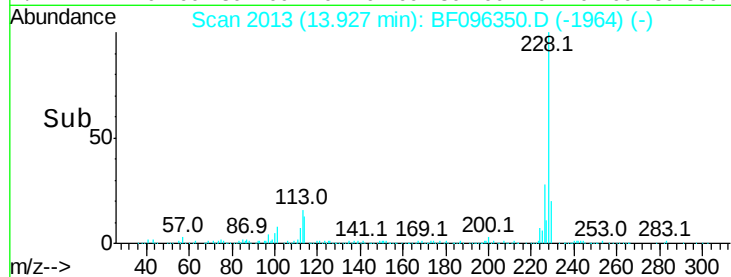
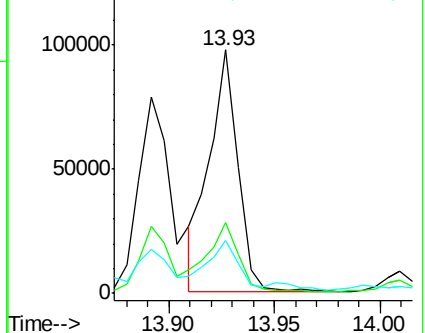
229 21.5 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.09 ng

RT: 16.70 min Scan# 2485

Delta R.T. -0.01 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

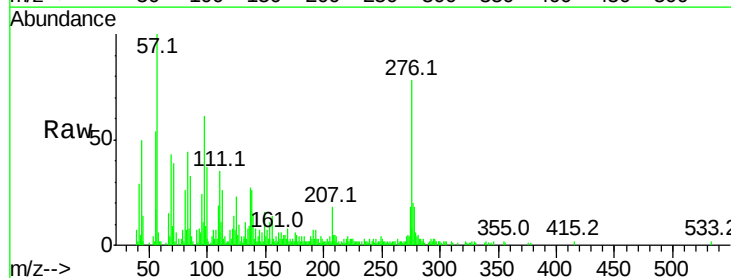
Tgt Ion:276 Resp: 35091

Ion Ratio Lower Upper

276 100

138 32.3 27.8 41.6

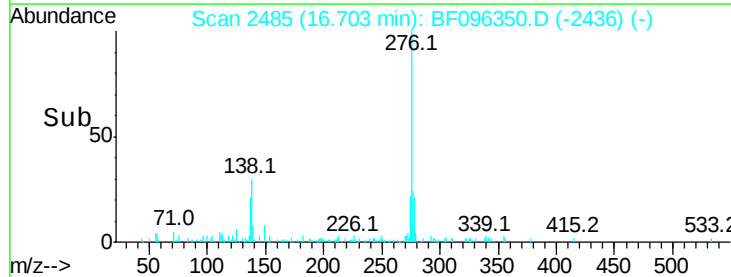
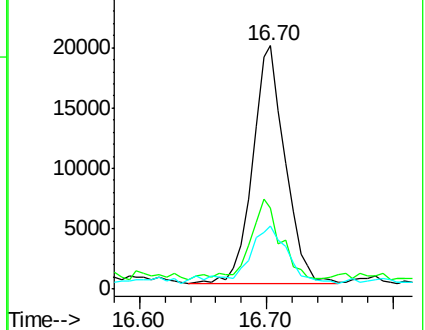
277 26.8 20.2 30.4

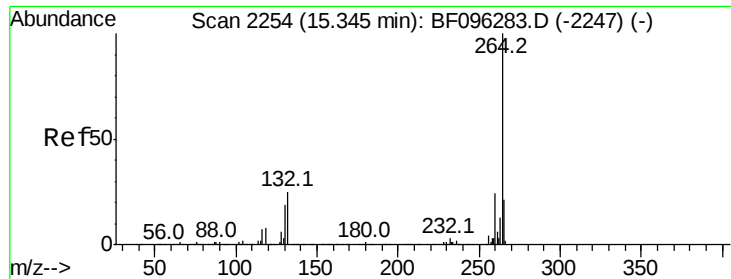


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

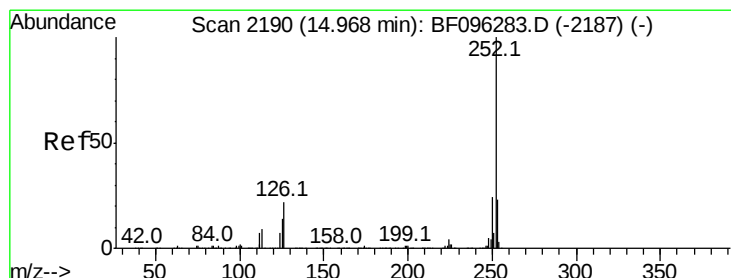
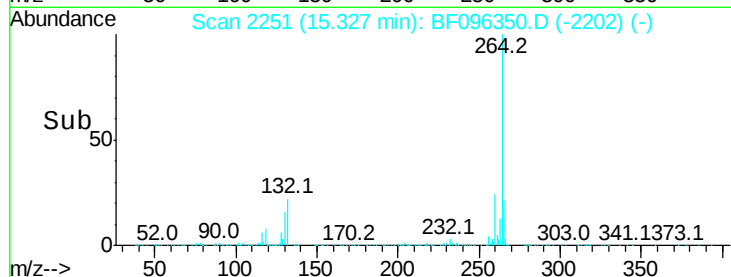
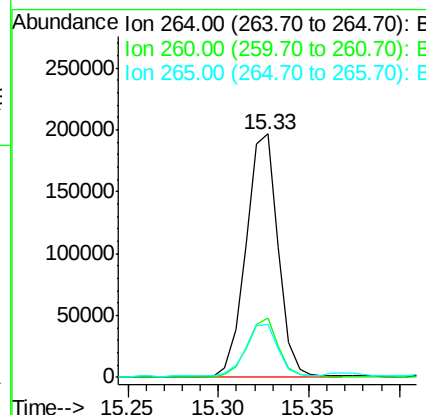
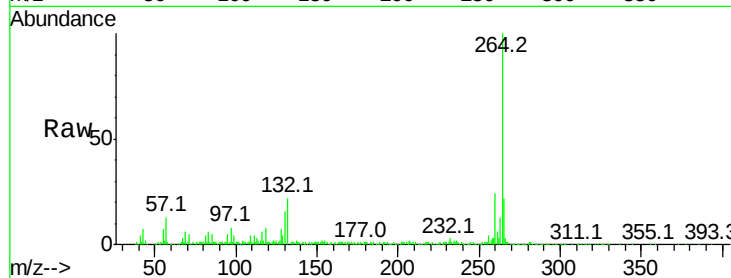




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.01 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

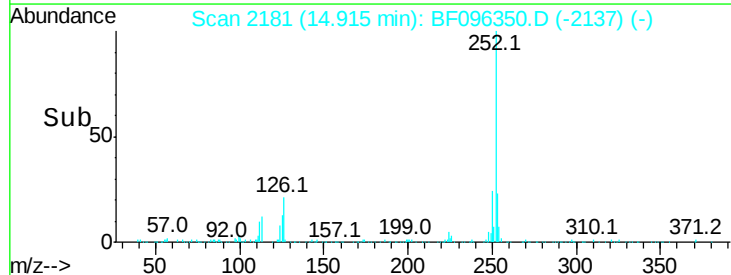
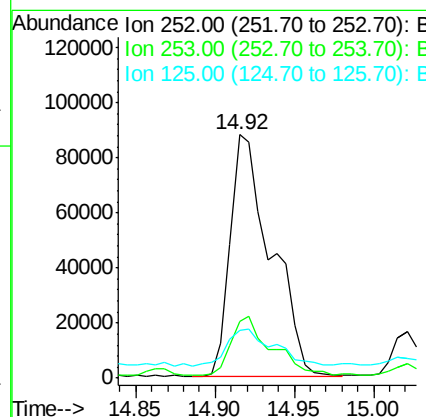
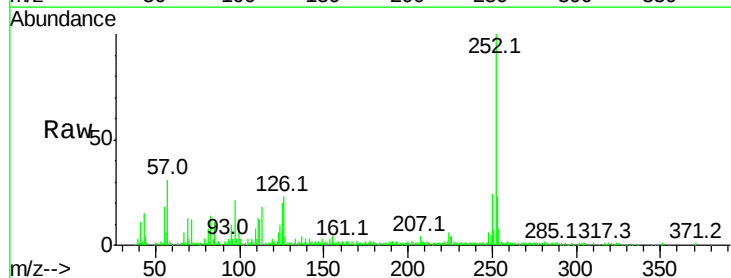
Instrument :
BNA_F
ClientSampleId :

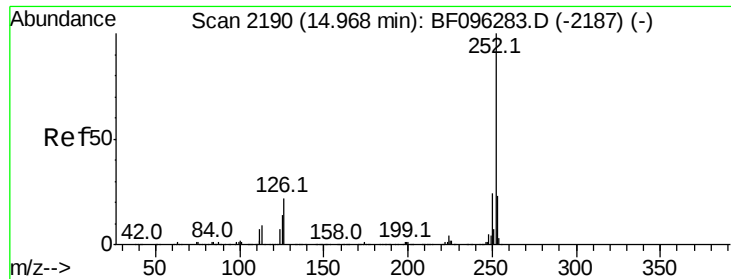
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	21.7	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 10.07 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.1	27.1
125	19.6	9.8	14.8#

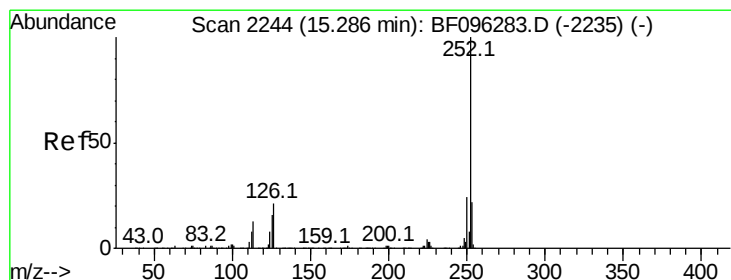
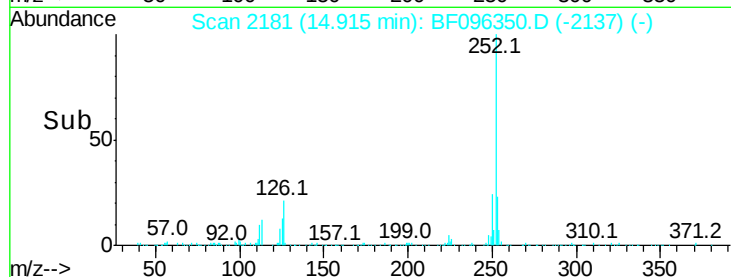
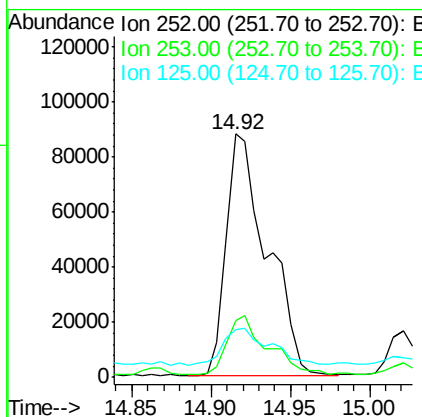
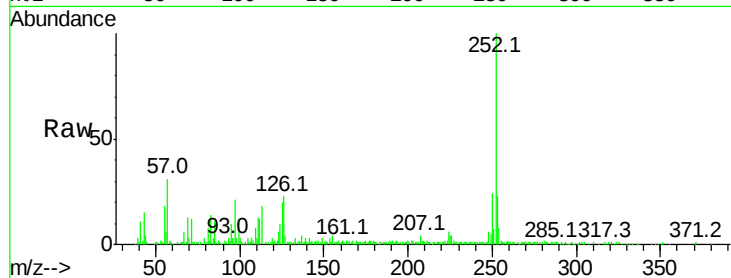




#88
Benzo(k)fluoranthene
Concen: 11.03 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.04 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

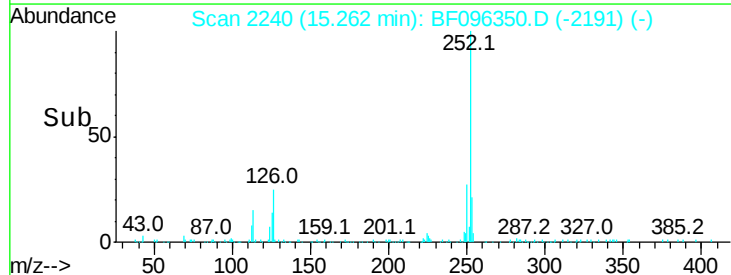
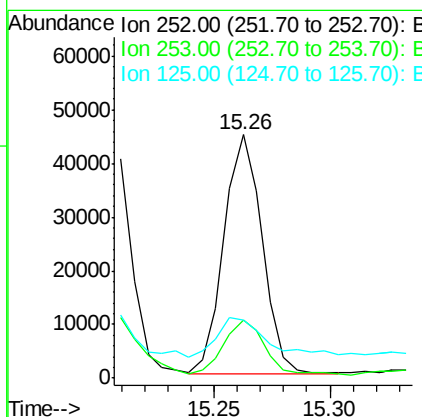
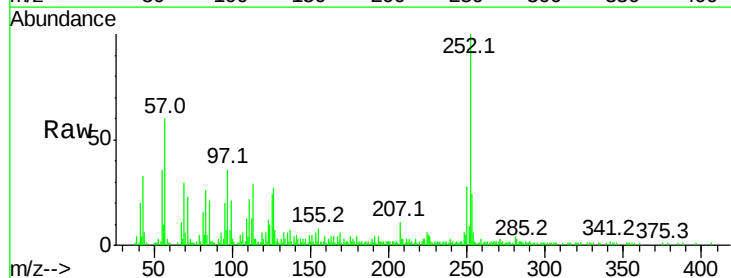
Instrument :
BNA_F
ClientSampleId :

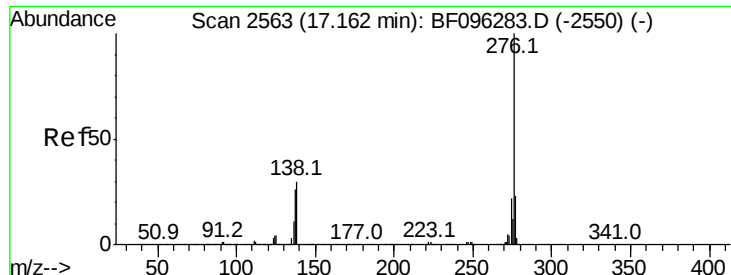
Tot Ion:252 Resp: 158951
Ion Ratio Lower Upper
252 100
253 23.4 18.4 27.6
125 19.6 13.1 19.7



#89
Benzo(a)pyrene
Concen: 3.72 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.01 min
Lab File: BF096350.D
Acq: 30 Jun 2017 21:44

Tgt Ion:252 Resp: 51804
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 23.9 11.0 16.4#





#91

Benzo(a,h,i)perylene

Concen: 2.93 ng

RT: 17.12 min Scan# 2555

Delta R.T. -0.02 min

Lab File: BF096350.D

Acq: 30 Jun 2017 21:44

Instrument :

BNA_F

ClientSampleId :

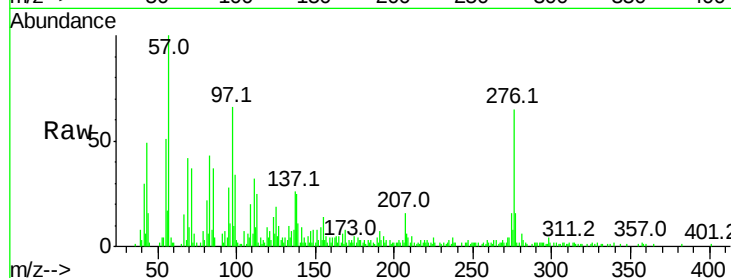
Tot Ion:276 Resp: 33226

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 38.4 25.4 38.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

